

Inrad Optics, Inc.  
Form 10-K  
March 31, 2014

**UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION**

**Washington, D. C. 20549**

**FORM 10-K**

**(Mark One)**

**ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF  
1934**

**For the fiscal year ended: December 31, 2013**

**OR**

**TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT  
OF 1934**

**For the transition period from                      to**

**Commission file number: 0-11668**

**Inrad Optics, Inc.**

**(Exact name of registrant as specified in its charter)**

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**New Jersey** **22-2003247**  
State or other jurisdiction of incorporation or organization (I. R. S. Employer Identification No.)

**181 Legrand Avenue, Northvale, NJ** **07647**  
(Address of principal executive offices) (Zip Code)

Registrant's telephone number, including area code **201-767-1910**

Securities registered pursuant to Section 12(b) of the Act: **None**

**Name of each exchange**  
**Title of each class on which registered**

Securities registered pursuant to section 12(g) of the Act:

**Common stock, par value \$.01 Per Share**

Indicate by check mark if the registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act.  
Yes  No

Indicate by check mark if the registrant is not required to file reports pursuant to Section 13 or Section 15(d) of the Act. Yes  No

Note – Checking the box above will not relieve any registrant required to file reports pursuant to Section 13 or 15(d) of the Exchange Act from their obligations under those Sections.

Indicate by check mark whether the registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days.

Yes  No

Indicate by check mark whether the registrant has submitted electronically and posted on its corporate Web site, if any, every Interactive Data file required to be submitted and posted pursuant to Rule 405 of Regulation S-T (§ 232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required

to submit and post such files).

Yes x No

Indicate by check mark if disclosure of delinquent filers pursuant to Item 405 of Regulation S-K (§ 229.405 of this chapter) is not contained herein, and will not be contained, to the best of registrant's knowledge, in definitive proxy or information statements incorporated by reference in Part III of this Form 10-K or any amendment to this Form 10-K.

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, or a smaller reporting company. See definition of large accelerated filer, accelerated filer and smaller reporting company in Rule 12b2 of the Exchange Act. (Check one):

Large accelerated filer  Accelerated filer  Non-accelerated filer  Smaller reporting company

Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Exchange Act).

Yes  No x

State the aggregate market value of the voting and non-voting common equity held by non-affiliates computed by reference to the price at which the common equity was last sold, or the average bid and asked price of such common equity, as of the last business day of the registrant's most recently completed second fiscal quarter. \$1,659,539 (For purposes of determining this amount, only directors, executive officers and shareholders with voting power of 10% or more of our stock have been deemed affiliates.)

Indicate the number of shares outstanding of each of the registrant's classes of common stock, as of the latest practicable date.

Common Shares outstanding as of March 28, 2014 – 12,051,003 shares

**DOCUMENTS INCORPORATED BY REFERENCE**

Portions of the registrant's definitive Proxy Statement for the 2014 Annual Meeting of Shareholders, to be filed with the Commission not later than 120 days after the close of the registrant's fiscal year, have been incorporated by reference, in whole or in part, into Part III Items 10, 11, 12, 13 and 14 of this Annual Report on 10-K.

Inrad Optics, Inc.

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## **PART 1**

### **Caution Regarding Forward Looking Statements**

This Annual Report contains forward-looking statements as that term is defined in the federal securities laws. The Company wishes to insure that any forward-looking statements are accompanied by meaningful cautionary statements in order to comply with the terms of the safe harbor provided by the Private Securities Litigation Reform Act of 1995. The events described in the forward-looking statements contained in this Annual Report may not occur. Generally, these statements relate to business plans or strategies, projected or anticipated benefits or other consequences of the Company's plans or strategies, or projections involving anticipated revenues, earnings, or other aspects of the Company's operating results. The words "may", "will", "expect", "believe", "anticipate", "project", "plan", "intend", "estimate", "continue", and their opposites and similar expressions are intended to identify forward-looking statements. The Company cautions you that these statements are not guarantees of future performance or events and are subject to a number of uncertainties, risks, and other influences, many of which are beyond the Company's control, that may influence the accuracy of the statements and the projections upon which the statements are based. Factors that may cause or contribute to such differences include, but are not limited to, those discussed in more detail in Item 1 (Business) and Item 1A (Risk Factors) of Part I and Item 7 (Management's Discussion and Analysis of Financial Condition and Results of Operations) of Part II of this Annual Report on Form 10-K. Any one or more of these uncertainties, risks, and other influences could materially affect the Company's results of operations and whether forward-looking statements made by the Company ultimately prove to be accurate. Readers are further cautioned that the Company's financial results can vary from quarter to quarter, and the financial results for any period may not necessarily be indicative of future results. The foregoing is not intended to be an exhaustive list of all factors that could cause actual results to differ materially from those expressed in forward-looking statements made by the Company. The Company's actual results, performance and achievements could differ materially from those expressed or implied in these forward-looking statements. The Company undertakes no obligation to publicly update or revise any forward looking statements, whether from new information, future events, or otherwise, except as otherwise required by law.

### **Item 1. Business**

Inrad Optics, Inc. (the "Company", "Inrad"), was incorporated in New Jersey in 1973. The Company develops, manufactures and markets products and services for use in photonics industry sectors via three distinct but complimentary product areas - "Crystals and Devices", "Custom Optics" and "Metal Optics."

The Company is a vertically integrated manufacturer specializing in crystal-based optical components and devices, custom optical components from both glass and metal, and precision optical and opto-mechanical assemblies. Manufacturing capabilities include solution and high temperature crystal growth, extensive optical fabrication capabilities, including precision diamond turning and the ability to handle large substrates, optical coatings and provide in-process metrology.

Inrad Optics' customers include leading corporations in the defense, aerospace, laser systems, process control and metrology sectors of the photonics industry, as well as the U.S. Government, National Laboratories and universities worldwide.

Administrative, engineering and manufacturing operations are in a 42,000 square foot building located in Northvale, New Jersey, about 15 miles northwest of New York City, and in a 25,000 square foot building located in Sarasota, FL. The headquarters of the Company are located in the Northvale facility. In November 2013, the Company announced plans to relocate all of the operations from the Sarasota facility to the New Jersey facility. The Company anticipates being out of that facility by March 31, 2014 when the operations in Sarasota will be fully transferred.

The products produced by Inrad Optics, Inc. fall into two main categories: Optical Components and Laser Devices and Instrumentation.

The Optical Components segment of the business is heavily focused on custom optics manufacturing. The Company specializes in high-end precision components. It develops, manufactures and delivers precision custom optics and thin film optical coating services through its Custom Optics and Metal Optics operations. Glass, metal, and crystal substrates are processed using modern manufacturing equipment, complex processes and techniques to manufacture components, deposit optical thin films, and assemble sub-components used in advanced photonic systems. The majority of custom optical components and optical coating services supplied are used in inspection, process control systems, defense and aerospace electro-optical systems, laser system applications, industrial scanners, and medical system applications.

The Laser Devices and Instrumentation category includes the growth and fabrication of crystalline materials with electro-optic (EO) and non-linear optical properties for use in both standard and custom products. This category also includes crystal based devices and associated instrumentation. The majority of crystals, crystal components and laser devices are used in laser systems, defense EO systems, medical lasers and R&D applications by engineers within corporations, universities and national laboratories.

The following table summarizes the Company's net sales by product categories during the past three years. Laser Devices and Instrumentation includes all non-linear and electro-optical crystal components.

| Category (In thousands)           | Years Ended December 31, |       |           |       |           |       |
|-----------------------------------|--------------------------|-------|-----------|-------|-----------|-------|
|                                   | 2013                     |       | 2012      |       | 2011      |       |
|                                   | Net Sales                | %     | Net Sales | %     | Net Sales | %     |
| Optical Components                | \$8,628                  | 76.8  | \$8,758   | 76.7  | \$11,812  | 89.6  |
| Laser Devices and Instrumentation | 2,608                    | 23.2  | 2,646     | 23.3  | 1,365     | 10.4  |
| Total                             | \$11,236                 | 100.0 | \$11,404  | 100.0 | \$13,177  | 100.0 |

### **Products Manufactured by the Company**

#### **Optical Components**

##### **a) Custom Optics and Optical Coating Services**



Manufacturing of high-performance custom optics is a major product area for Inrad Optics and is addressed in the marketplace by each of the product groups - Crystals and Devices, Custom Optics and Metal Optics.

The Custom Optics product line focuses on products manufactured to specific customer requirements. It specializes in the manufacture of optical components, optical coatings (ultra-violet wavelengths through infra-red wavelengths) and subassemblies for the military, aerospace, industrial and medical marketplace. Planar, prismatic and spherical components are fabricated from glass and synthetic crystals, including fused silica, quartz, germanium, zinc selenide, zinc sulfide, magnesium fluoride and silicon. Components consist of mirrors, lenses, prisms, wave plates, polarizing optics, monochromators, x-ray mirrors, and cavity optics for lasers.

Most optical components and sub-assemblies require thin film coatings on their surfaces. Depending on the design, optical coatings can refract, reflect, or transmit specific wavelengths. The Custom Optics optical coating specialties include high laser damage resistance, polarizing, highly reflective, anti-reflective, infra-red, and coating to complex multi-wavelength requirements on a wide range of substrate materials. Coating deposition process technologies employed included electron beam, thermal, ion and plasma assisted deposition systems.

The Metal Optics product line is a fully integrated precision metal optics and optical assembly operation which employs high precision CNC and diamond machining, polishing, plating of aluminum, AlBeMet™, beryllium and stainless steel. The Metal Optics product line offers opto-mechanical design and assembly services as part of its manufactured deliverables and can support prototyping through production of large and small metal mirrors, thermally stable optical mirrors, low RMS surface finish polished mirrors, diamond machined precision aspheric and planar mirrors, reflective porro prisms, and arc-second accuracy polygons and motor assemblies. Plating specialties include void-free gold and electroless nickel.

b) UV Filter Optical Components

This product line consists of crystals and crystal devices including UV filter materials of both patented and proprietary materials with unique transmission and absorption characteristics. These materials are used in critical applications in defense systems such as missile warning sensors. Such materials include nickel sulfate and other proprietary materials.

**Laser Devices and Instrumentation**

This product line consists of crystal-based products that are used in, or alongside, laser systems. Developing growth processes for high quality synthetic crystals is a core competency of the Crystals and Devices manufacturing team. These crystals are embedded in our value added devices and instrumentation products manufactured in our Northvale facility and include crystals for wavelength conversion, modulation and polarization, Pockels cells, and wavelength conversion instruments. In addition to the filter materials consumed by the UV Filter Optical components described above, current materials produced include Beta Barium Borate (BBO), Lithium Niobate, Zinc Germanium DiPhosphide, Potassium Dihydrogen Phosphate and Potassium Dideuterium Phosphate. Applications for these materials include defense, homeland security, surgical lasers, and industrial processing lasers. The Crystals and Devices team is also engaged in ongoing R & D efforts to develop new materials for evolving applications and offers contract growth of crystalline materials to customer specifications. Some of the major products produced for the photonics marketplace include:

a) Crystal Components

The Company grows and fabricates electro-optic and nonlinear crystal devices for altering the intensity, polarization or wavelength of a laser beam. Other crystal components, produced as part of the Crystals and Devices product line, are used in laser research and in commercial laser systems.

b) Pockels Cells and Drivers

A line of Pockels cells and associated electronics is manufactured for sale in multiple market sectors. Pockels cells are devices that include one or more crystal components and are used in applications that require fast switching of the polarization direction of a beam of light. These uses include Q-switching of laser cavities to generate pulsed laser light, coupling light into and out from regenerative amplifiers, and light intensity modulation. These devices are sold to medical and industrial laser original equipment manufacturers, research institutes and laser system design engineers.

**Sales by Market**

The photonics industry serves a very broad, fragmented and expanding set of markets. As technologies are discovered, developed and commercialized, the applications for photonic systems and devices, and the components embedded within those devices, grow across traditional market boundaries. While a significant part of the Company's business remains firmly in the defense and aerospace markets, other markets served include the OEM medical and industrial laser market, and the OEM metrology and process control market, university research institutes and national labs worldwide. Scanning, detection and imaging technologies for homeland security and health care markets are beginning to provide opportunities for the Company and these new sectors are expected to account for future growth and demand for our products and capabilities.

In 2013, 2012 and 2011 the Company's product sales were made to customers in the following market areas:

| Market (In thousands)                | Years Ended December 31, |       |           |       |           |       |
|--------------------------------------|--------------------------|-------|-----------|-------|-----------|-------|
|                                      | 2013                     |       | 2012      |       | 2011      |       |
|                                      | Net Sales                | %     | Net Sales | %     | Net Sales | %     |
| Defense/Aerospace                    | \$4,520                  | 40.2  | \$5,089   | 44.6  | \$6,734   | 51.1  |
| Process control & metrology          | 2,664                    | 23.7  | 3,484     | 30.5  | 4,752     | 36.1  |
| Laser systems                        | 2,988                    | 26.6  | 2,421     | 21.2  | 1,255     | 9.5   |
| Universities & national laboratories | 1,064                    | 9.5   | 410       | 3.7   | 436       | 3.3   |
| Total                                | \$11,236                 | 100.0 | \$11,404  | 100.0 | \$13,177  | 100.0 |

## **Defense and Aerospace**

This market consists of sales to OEM defense electro-optical systems and subsystems manufacturers, manufacturers of non-military satellite-based electro-optical systems and subsystems, and direct sales to governments where the products have the same end-use.

End-use applications for the Company's products in the defense and aerospace sector include military laser systems, military electro-optical systems, satellite-based systems, and missile warning sensors and systems that protect aircraft. The dollar volume of shipments of product within this sector depends in large measure on the U.S. Defense Department budget and its priorities, that of foreign governments, the timing of their release of contracts to their prime equipment and systems contractors, and the timing of competitive awards from this customer community to the Company.

Defense/Aerospace sector sales represented approximately 40.2%, 44.6% and 51.1% of sales in 2013, 2012 and 2011. Despite the decrease in sales over the past three years, the Company believes that the defense and aerospace sector will continue to represent a significant market for the Company's products and offers an ongoing opportunity for growth given the Company's capabilities in specialty crystal, glass and metal precision optics.

## **Process Control and Metrology**

This market consists of customers who are manufacturers of capital equipment used in manufacturing process implementation and control, optics-based metrology, quality assurance and inventory and product control equipment. Examples of applications for such equipment include semiconductor fabrication and testing and inventory management and distribution control.

Sales in the Process Control and Metrology market decreased in 2013 and 2012, as a percentage of total sales and actual sales, compared to 2011. The total amount of sales in 2013 was comparable to sales in 2010. The decrease correlates with the decline in business activity experienced by the semiconductor market, as a whole. The Company believes that the optical and x-ray inspection segment of the semiconductor industry offers continued opportunities which match its capabilities in precision optics, crystal products, and monochromators.

## **Laser Systems**

This market consists principally of customers who are OEM manufacturers of industrial, medical, and R&D lasers which the Company serves as an OEM supplier of standard and custom optical components and laser accessories, as well as, representing related markets that are not currently large enough to list individually. While sales to our OEM customers remained fairly constant, sales to customers in other smaller markets increased in 2013.

### **Universities and National Laboratories**

These sales consist of product sales directly to researchers at various educational and research institutions and through distributors into that market. Sales to customers within the University and National Laboratories market sector consist primarily of the Company's legacy systems, Pockels cells and related repairs. Sales in 2013 increased by approximately 160% over 2012, primarily the result of increased demand from one large customer. Sales for 2012 compared to 2011 were relatively unchanged and the total dollar amount from sales to this market remained relatively stable over the past two years and is dependent on research projects and the availability of funding for such projects.

### **Major Customers**

Historically, the Company's sales have been concentrated within a small number of customers, although the top customers have varied from year to year. In 2013, the Company had sales to three major customers which accounted for 9.4%, 8.2% and 7.3% of sales, respectively. One customer is a domestic manufacturer of medical laser systems. The two other major customers in 2013 are electro-optical systems divisions of major U.S. defense industry corporations who manufacture systems for the U.S. and foreign governments. In 2012, the top three customers represented 11.2%, 10.7% and 8.6% of sales, respectively. In 2011, the top three customers represented 20.9%, 15.4% and 10.8% of sales, respectively.

Sales to the Company's top five customers represented approximately 37.7%, 43.1% and 58.1% of sales, in 2013, 2012 and 2011, respectively. These customers are all OEM manufacturers either within the defense, process control and metrology or laser systems sector. The concentration of sales within a small number of customers presents the risk that the loss of any of these customers could have a significant negative impact on the Company.

### **Export Sales**

The Company's export sales are primarily to customers in Europe, Israel, Asia and Japan and amounted to approximately 14.5%, 14.3%, and 22.8% of product sales in 2013, 2012 and 2011, respectively.

### **Long-Term Contracts**

Certain of the Company's agreements with customers provide for periodic deliveries at fixed prices over a long period of time. In such cases, the Company negotiates to obtain firm price commitments, as well as, cash advances from its suppliers for the purchase of the materials necessary to fulfill the order.

### **Marketing and Business Development**

The Company markets its products domestically, through the coordinated efforts of the sales, marketing and customer service teams.

The Company has moved towards a strategy of utilizing these combined sales and marketing resources for cross-selling all products, across all business lines. This strategy is well suited to the diverse and fragmented markets that utilize photonic technologies.

Independent sales agents are used in countries in major non-U.S. markets, including Canada, the United Kingdom, the European Union, Israel, and Japan.

Sales and marketing efforts to promote our product lines and our participation in trade shows, internet-based marketing, media and non-media advertising and promotion, and management of international sales representatives and distributor relationships are coordinated at the corporate level under the auspices of the Vice President, Sales and Marketing.

In 2011, the Company undertook a significant marketing effort in the form of a corporate name change and a new branding strategy around the "Inrad Optics" name which was supported by the development of a new website and other brand identity marketing efforts.

### **Backlog**

The Company's order backlog at December 31, 2013 was \$4,357,000. The Company's order backlog as of December 31, 2012 and 2011 was \$5,898,000 and \$5,021,000, respectively.

We anticipate shipping a majority of the present backlog during fiscal year 2014. However, our backlog at any given date is not necessarily indicative of actual sales for any future period.

## **Competition**

Within each product category in which the Company's business units are active, there is competition.

Changes in the photonics industry have had an effect on suppliers of custom optics. As end users have introduced products requiring large volumes of optical components, suppliers have responded either by staying small and carving out niche product areas, or by ramping up manufacturing capacity and modernizing their manufacturing methods to meet higher volume production rates. Additionally the availability of an increasingly large variety of inventoried inexpensive catalog optics has led some OEM manufacturers to "design in" these low-cost solutions rather than utilizing custom designed and manufactured products.

Competition for the Company's crystal devices and instrumentation is more limited and the Company's laser devices are considered to be high quality and generally offer a combination of features not available elsewhere. As a result of the Company's in-house crystal growth capability, this area of the business is highly vertically integrated, providing a competitive advantage over other suppliers.

For crystal products, the market is highly competitive. Many of the Company's competitors who supply non-linear optical crystals are located overseas, and can offer significantly reduced pricing for some crystal materials. On many occasions, the quality of the crystal component drives the ultimate performance of the component or instrument into which it is installed. Quality and technical support are considered to be valuable attributes for a crystal supplier by some, but not all, OEM customers.

Our metal optics product line has several key competitors who are larger and better equipped to compete on high volume work. There are also several large and small competitors who compete with our products on large form factor optics. The Company has made recent inroads within this competitive landscape, and is building brand awareness in the marketplace.

Although price is a principal factor in many product categories, competition is also based on product design, performance, customer confidence, quality, delivery, and customer service. Based on its performance to date, the

Company believes that it can continue to compete successfully, although no assurances can be given in this regard.

Employees

As of the close of business on March 28, 2014, the Company had 71 full-time employees.

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### Patents and Licenses

The Company mainly relies on its manufacturing and technological expertise, know-how and trade secrets in addition to its patents, to maintain its competitive position in the industry. The Company takes precautionary and protective measures to safeguard its technical design and manufacturing processes. The Company executes nondisclosure agreements with its employees and, where appropriate, with its customers, suppliers and other associates.

### Regulation

Foreign sales of certain of the Company's products to certain countries may require export licenses from the United States Department of Commerce. Such licenses are obtained when required. All requested export licenses of Inrad Optics products have been granted or deemed not-required.

International Traffic in Arms Regulations ("ITAR") governs much of the Company's domestic defense sector business, and the Company is capable of handling its customers' technical information under these regulations. Inrad Optics, Inc. is registered with the Directorate of Defense Trade Controls, and utilizes a supplier base of similarly registered companies.

There are no other federal regulations or any unusual state regulations that directly affect the sale of the Company's products other than those environmental compliance regulations that generally affect companies engaged in manufacturing operations in New Jersey and Florida.

### **Availability of Reports**

Our annual reports on Form 10-K, quarterly reports on Form 10-Q, current reports on Form 8-K and any amendments to such reports are available free of charge on our web site at [www.inradoptics.com](http://www.inradoptics.com) as soon as reasonably practicable after such reports are electronically filed with, or furnished to, the Securities and Exchange Commission ("SEC") ([www.sec.gov](http://www.sec.gov)). We will also provide electronic or paper copies of such reports free of charge, upon request made to our Corporate Secretary.

### Item 1A. Risk Factors

The Company cautions investors that its performance (and, therefore, any forward looking statement) is subject to risks and uncertainties. Various important factors, including but not limited to the following, may cause the Company's future results to differ materially from those projected in any forward looking statement.

a) The Company has incurred a net loss for four of the past five years

The Company has historically incurred substantial net losses. We had a net loss of \$1.6 million, and \$1.4 million for the fiscal years ended December 31, 2013 and 2012, respectively. We expect our losses to continue in the near term. These losses have had an adverse effect on our working capital, total assets and stockholders' equity. We are unable to predict when we will become profitable and the inability to achieve and sustain profitability would negatively affect our business, financial condition, results of operations and cash flows.

b) The Company may need to raise additional capital to repay indebtedness and to fund our operations

We may need to raise additional financing to repay our outstanding indebtedness of approximately \$3.2 million, as well as, to fund our current level of operations. Additional financing, which is not in place at this time, may be from the sale of equity or convertible or other debt securities in a public or private offering, or from an additional credit facility. We may be unable to raise sufficient additional capital on favorable terms, if at all, to supply the working capital needs of our existing operations or to expand our business.

c) The Company has exposure to Government Markets

Sales to customers in the defense industry represent a significant part of our business. These customers in turn generally contract with government agencies. Most governmental programs are subject to funding approval through congressional appropriations which can be modified or terminated without warning upon the determination of a legislative or administrative body. Appropriations can also be affected by legislation that addresses larger budgetary issues of the U.S. Government such as the Budget Control Act of 2011 which significantly reduced appropriations below forecasted levels for most federal agencies, including the Department of Defense. In addition, the 2015 Presidential Budget includes reductions in spending for the defense department. It is difficult to assess how this will impact our defense industry customers and the business we do with them, in the future. The loss or failure to obtain certain contracts or a loss of a major government customer could have a material adverse effect on our business, results of operations or financial condition.

d) The Company's revenues are concentrated in its largest customer accounts

For the year ended December 31, 2013, five customer accounts represented approximately 38% of total revenues although none of these customers accounted for more than 10% of revenues in 2013. Since we are a supplier of custom manufactured components to OEM customers, and have a number of large customers in both the commercial and defense markets, the relative size and identity of our largest customers change somewhat from year to year. In the

short term, the loss of any of these large customer accounts or a decline in demand in the markets which they represent could have a material adverse effect on our business, results of operations, and financial condition.

e) The Company depends on, but may not succeed in, developing and acquiring new products and processes

To meet the Company's strategic objectives, the Company needs to continue to develop new processes, improve existing processes, and manufacture and market new products. As a result, the Company may continue to make investments in process development and additions to its product portfolio. There can be no assurance that the Company will be able to develop and introduce new products or enhancements to its existing products and processes in a way that achieves market acceptance or other pertinent targeted results. The Company also cannot be sure that it will have the human or financial resources to pursue or succeed in such activities.

f) The Company's stock price may fluctuate widely

The Company's stock is thinly traded. Many factors, including, but not limited to, future announcements concerning the Company, its competitors or customers, as well as quarterly variations in operating results, announcements of technological innovations, seasonal or other variations in anticipated or actual results of operations, changes in earnings estimates by analysts or reports regarding the Company's industries in the financial press or investment advisory publications, could cause the market price of the Company's stock to fluctuate substantially. In addition, the Company's stock price may fluctuate widely for reasons which may be unrelated to operating results. These fluctuations, as well as general economic, political and market conditions such as recessions, military conflicts, or market or related declines, may materially and adversely affect the market price of the Company's common stock. In addition, any information concerning the Company, including projections of future operating results, appearing in investment advisory publications or on-line bulletin boards or otherwise emanating from a source other than the Company could in the future contribute to volatility in the market price of the Company's common stock.

g) The Company's business success depends on its ability to recruit and retain key personnel

The Company depends on the expertise, experience, and continuing services of certain scientists, engineers, production and management personnel, and on the Company's ability to recruit additional personnel. There is competition for the services of these personnel, and there is no assurance that the Company will be able to retain or attract the personnel necessary for its success, despite the Company's efforts to do so. The loss of the services of the Company's key personnel could have a material adverse effect on its business, results of operations, or financial condition.

h) Many of the Company's customers are in cyclical industries

The Company's business is significantly dependent on the demand its customers experience for their products. Many of their end users are in industries that historically have experienced a cyclical demand for their products. The

industries include, but are not limited to, the defense electro-optics industry and the manufacturers of process control capital equipment for the semiconductor tools industry. As a result, demand for the Company's products are subject to cyclical fluctuations, and this could have a material adverse effect on our business, results of operations, or financial condition.

i) The Company's manufacturing processes require products from limited sources of supply

The Company utilizes many relatively uncommon materials and compounds to manufacture its products. Examples include optical grade quartz, specialty optical glasses, scarce natural and manmade crystals, beryllium and its alloys, and high purity chemical compounds. The Company's suppliers could fail to deliver sufficient quantities of these necessary materials on a timely basis, or deliver contaminated or inferior quality materials, or to markedly increase their prices. Any such actions could have an adverse effect on the Company's business, despite the Company's efforts to secure long term commitments from its suppliers. Adverse results might include reducing the Company's ability to meet commitments to its customers, compromising the Company's relationship with its customers, adversely affecting the Company's ability to meet expanding demand for its products, or causing the Company's financial results to deteriorate.

j) The Company faces competition

The Company encounters substantial competition from other companies positioned to serve the same market sectors. Some competitors may have financial, technical, capacity, marketing or other resources more extensive than ours, or may be able to respond more quickly than the Company to new or emerging technologies and other competitive pressures. Some competitors have manufacturing operations in low-cost labor regions such as the Far East and Eastern Europe and can offer products at lower prices than the Company. The Company may not be successful in winning orders against the Company's present or future competitors, and competition may have a material adverse effect on our business, results of operations or financial condition.

k) The Company may not be able to fully protect its intellectual property

The Company currently holds one material patent applicable to an important product, but does not in general rely on patents to protect its products or manufacturing processes. The Company generally relies on a combination of trade secret and employee non-competition and nondisclosure agreements to protect its intellectual property rights. There can be no assurance that the steps the Company takes will be adequate to prevent misappropriation of the Company's technology. In addition, there can be no assurance that, in the future, third parties will not assert infringement claims against the Company. Asserting the Company's rights or defending against third-party claims could involve substantial expense, thus materially and adversely affecting the Company's business, results of operations or financial condition.

Item 1B. Unresolved Staff Comments

None

Item 2. Properties

Administrative, engineering and manufacturing operations are housed in a 42,000 square foot building located in Northvale, New Jersey and in a 25,000 square foot building located in Sarasota, Florida. The headquarters of the Company are in its Northvale facility. The lease for the Northvale facility expired on October 31, 2013 and the Company is currently in negotiations for a new lease for this facility on more favorable terms. The Company continues to occupy the facility under the terms of the expired lease paying a reduced amount of monthly rent that includes all real estate taxes, maintenance and operating costs.

The Company's wholly-owned subsidiary, MRC Precision Metal Optics Inc., (DBA Inrad Optics) has its manufacturing operations in a leased facility located in the Sarasota, Florida pursuant to a net lease that expired on August 31, 2013. The Company announced plans in 2013 to relocate this operation into the Northvale, New Jersey facility and continues to occupy the facility under the terms of the expired lease, on a month to month basis, at the same amount of rent which includes real estate taxes, maintenance and operating costs. The Company expects to vacate the facility by March 31, 2014 when the operations in Sarasota have been fully consolidated within the Northvale facility.

We believe that our existing facilities are adequate to meet current and future projected production needs.

Item 3. Legal Proceedings

We are not party to any legal proceedings as of the date hereof.

Item 4. Mine Safety Disclosures

Not Applicable

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**PART II**Item 5. Market for Registrant's Common Equity and Related Stockholder Mattersa) Market Information

The Company's Common Stock, with a par value of \$0.01 per share, is traded on the OTC Bulletin Board under the symbol INRD. Prior to the name change in 2012, the Company's Common Stock traded under the symbol PHPG.

The following table sets forth the range of high and low closing prices for the Company's Common Stock in each fiscal quarter from the quarter ended March 31, 2012 through the quarter ended December 31, 2013, as reported by the National Association of Securities Dealers NASDAQ System. Such over-the-counter quotations reflect inter-dealer prices, without retail mark-up, mark-down or commission and may not necessarily represent actual transactions.

|                                  | Price<br>High | Low   |
|----------------------------------|---------------|-------|
| Quarter ended December 31, 2013  | \$.25         | \$.15 |
| Quarter ended September 30, 2013 | .31           | .12   |
| Quarter ended June 30, 2013      | .30           | .20   |
| Quarter ended March 31, 2013     | .60           | .22   |
| Quarter ended December 31, 2012  | .42           | .19   |
| Quarter ended September 30, 2012 | .70           | .38   |
| Quarter ended June 30, 2012      | 95            | .30   |
| Quarter ended March 31, 2012     | 1.00          | .89   |

As of March 28, 2014 the Company's closing stock price was \$0.35 per share.

b) Shareholders



As of March 28, 2014, there were approximately 136 shareholders of record of our Common Stock based upon the Shareholders' Listing provided by the Company's Transfer Agent. As of the same date, the Company estimates that there are an additional 346 beneficial shareholders.

c) Dividends

The Company has not historically paid cash dividends. Payment of cash dividends is at the discretion of the Company's Board of Directors and depends, among other factors, upon the earnings, capital requirements, operations and financial condition of the Company. The Company does not anticipate paying cash dividends in the immediate future.

d) Recent Sales of Unregistered Securities

There have been no sales of unregistered securities during the past three years.

e) Securities Authorized for Issuance under Equity Compensation Plans

|   | Number of securities to be issued upon exercise of outstanding options, warrants and rights | Weighted-average exercise price of outstanding options, warrants and rights | Number of securities for future issuance under equity compensation plans |
|---|---|---|--|
| 2000 Equity Compensation Program approved by shareholders | 474,923   | \$ 1.12   | —  |
| 2010 Equity Compensation Program approved by shareholders | 504,098   | \$ 0.81   | 3,495,902  |

Item 6. Selected Financial Data

The following data is qualified in its entirety by the financial statements presented elsewhere in this Annual Report on Form 10-K.

|  | <b>As of December 31, or<br/>For the Year Ended December 31,</b> |              |              |              |              |
|--|--|--------------|--------------|--------------|--------------|
|  | 2013   | 2012         | 2011         | 2010         | 2009         |
| Revenues                                   | \$11,235,654   | \$11,403,827 | \$13,177,194 | \$11,054,178 | \$11,051,127 |
| Net (loss) income                          | (1,649,961 )   | (1,420,833 ) | 164,746      | (733,813 )   | (2,799,992 ) |
| Earnings per share                         |  |              |              |              |              |
| Basic (loss) earnings per share            | (0.14 )  | (0.12 )      | 0.01         | (0.06 )      | (0.25 )      |
| Diluted (loss) earnings per share          | (0.14 )  | (0.12 )      | 0.01         | (0.06 )      | (0.25 )      |
| Weighted average shares                    |  |              |              |              |              |
| Basic                                      | 11,975,900   | 11,825,583   | 11,658,891   | 11,522,297   | 11,331,258   |
| Diluted                                    | 11,975,900   | 11,825,583   | 11,753,669   | 11,522,297   | 11,331,258   |
| Common stock dividends on Preferred shares |  | —            | —            | —            | —            |
| Total assets                               | 9,848,055  | 11,425,139   | 11,838,003   | 12,621,803   | 12,610,740   |
| Long-term obligations                      | 3,212,868  | 3,369,135    | 2,825,633    | 3,960,874    | 3,819,946    |
| Shareholders' equity                       | 5,363,840  | 6,794,848    | 7,857,995    | 7,373,752    | 7,777,715    |

Item 7. Management's Discussion and Analysis of Financial Condition and Results of Operation

The following discussion and analysis should be read in conjunction with the Company's consolidated financial statements and the notes thereto presented elsewhere herein. The discussion of results should not be construed to imply any conclusion that such results will necessarily continue in the future.

Critical Accounting Policies

The Company's significant accounting policies are described in Note 1 of the Consolidated Financial Statements that were prepared in accordance with accounting principles generally accepted in the United States of America. In preparing the Company's financial statements, the Company made estimates and judgments that affect the results of its operations and the value of assets and liabilities the Company reports. The Company's actual results may differ from these estimates.

The Company believes that the following summarizes critical accounting policies that require significant judgments and estimates in the preparation of the Company's consolidated financial statements.

### Revenue Recognition

The Company records revenue from the sale of its products and services when all four of the following criteria are met: persuasive evidence of an arrangement exists; delivery has occurred or services have been rendered; the sales price is fixed or determinable; and collectability is reasonably assured. Losses on contracts are recorded when identified.

### Inventory

Inventories are stated at the lower of cost (first-in, first-out method) or market. Cost of manufactured goods includes material, labor and overhead.

The Company records a reserve for slow moving inventory as a charge against earnings for all products identified as surplus, slow moving or discontinued. Excess work-in-process costs are charged against earnings whenever estimated costs-of-completion exceed unbilled revenues.

### Goodwill and Intangible assets

Intangible assets with finite lives are amortized on a straight-line basis over the assets' estimated useful life up to 14 years. The Company periodically evaluates on an annual basis, or more frequently when conditions require, whether events or circumstances have occurred indicating the carrying amount of intangible assets may not be recoverable. When factors indicate that intangible assets should be evaluated for possible impairment, the Company uses an estimate of the associated undiscounted future cash flows compared to the related carrying amount of assets to determine if an impairment loss should be recognized.

Goodwill and intangible assets not subject to amortization are tested in December of each year for impairment, or more frequently if events and circumstances indicate that the assets might have become impaired. An impairment loss is recognized to the extent that the carrying amount exceeds the asset's fair value.

### Stock-based compensation

Stock based compensation expense is estimated at the grant date based on the fair value of the award. The Company estimates the fair value of stock options granted using the Black-Scholes option pricing model. The fair value of restricted stock units granted is estimated based on the closing market price of the Company's common stock on the date of the grant. The fair value of these awards, adjusted for estimated forfeitures, is amortized over the requisite service period of the award, which is generally the vesting period.

## **Income Taxes**

Deferred income taxes are provided on the asset and liability method whereby deferred tax assets are recognized for deductible temporary differences and operating loss and tax credit carry forwards and deferred tax liabilities are recognized for taxable temporary differences. Temporary differences are the differences between the amounts of assets and liabilities recorded for income tax and financial reporting purposes. Deferred tax assets are reduced by a valuation allowance when, in the opinion of management, it is more likely than not that some portion or all of the deferred tax assets will not be realized. Deferred tax assets and liabilities are adjusted for the effects of changes in tax laws and rates on the date of enactment.

The Company recognizes the financial statement benefit of an uncertain tax position only after determining that the relevant tax authority would more likely than not sustain the position. For tax positions meeting the more likely than not threshold, the amount recognized in the financial statements is the largest benefit that has a greater than 50 percent likelihood of being realized upon ultimate settlement with the relevant tax authority.

The Company classifies interest and penalties related to income taxes as income tax expense in its Consolidated Financial Statements

## **Results of Operations**

The following table summarizes the Company's product sales by product categories during the past three years:

| Category (In thousands)           | Years Ended December 31, |       |           |       |           |       |
|-----------------------------------|--------------------------|-------|-----------|-------|-----------|-------|
|                                   | 2013                     |       | 2012      |       | 2011      |       |
|                                   | Net Sales                | %     | Net Sales | %     | Net Sales | %     |
| Optical Components                | \$8,628                  | 76.8  | \$8,758   | 76.7  | \$11,812  | 89.6  |
| Laser Devices and Instrumentation | 2,608                    | 23.2  | 2,646     | 23.3  | 1,365     | 10.4  |
| Total                             | \$11,236                 | 100.0 | \$11,404  | 100.0 | \$13,177  | 100.0 |



The following table provides information on the Company's sales to its major business sectors during the past three years:

| Market (In thousands)                  | Years Ended December 31, |       |           |       |           |       |
|--|--------------------------|-------|-----------|-------|-----------|-------|
|  | 2013                     |       | 2012      |       | 2011      |       |
|  | Net Sales                | %     | Net Sales | %     | Net Sales | %     |
| Defense/Aerospace                      | \$4,520                  | 40.2  | \$5,089   | 44.6  | \$6,734   | 51.1  |
| Process control and metrology          | 2,664                    | 23.7  | 3,484     | 30.5  | 4,752     | 36.1  |
| Laser systems                          | 2,988                    | 26.6  | 2,421     | 21.2  | 1,255     | 9.5   |
| Universities and national laboratories | 1,064                    | 9.5   | 410       | 3.7   | 436       | 3.3   |
| Total                                  | \$11,236                 | 100.0 | \$11,404  | 100.0 | \$13,177  | 100.0 |

The following table sets forth, for the past three years, the percentage relationship of statement of operations categories to total revenues.

|  | Years ended December 31, |          |        |
|--|--------------------------|----------|--------|
|  | 2013                     | 2012     | 2011   |
| Revenues:                                    |                          |          |        |
| Product sales                                | 100.0%                   | 100.0%   | 100.0% |
| Costs and expenses:                          |                          |          |        |
| Cost of goods sold                           | 85.1 %                   | 78.2 %   | 73.0 % |
| Gross profit margin                          | 14.9 %                   | 21.8 %   | 27.0 % |
| Selling, general and administrative expenses | 28.2 %                   | 29.3 %   | 24.7 % |
| Operating (loss) income                      | (13.3 )%                 | (7.4 )%  | 2.3 %  |
| Net (loss) income                            | (14.7 )%                 | (12.5 )% | 1.3 %  |

### Revenues

The consolidated revenue for all business operations was \$11,236,000 in 2013, a decrease of 1.5% compared to \$11,404,000 in 2012.

By product category, the net decrease in 2013 consisted of a decrease of 1.5% or \$130,000 in shipments of optical components and a decrease of 1.4% or \$38,000 in laser systems devices and instrumentation compared to the prior year.

Lower sales from customers in the defense and aerospace, and process control and metrology markets was offset by an increase in shipments to customers in the laser systems market and the university and national laboratories market compared with 2012.

The defense and aerospace market declined 11.2% to \$4,520,000 compared to \$5,089,000 in 2012. This decline reflects the ongoing flow through impact that the economic downturn has had on our customers spending patterns, driven by changes in government defense spending on the products or systems supplied by our customers.

Sales in the process control and metrology market decreased in 2013 by 23.5% to \$2,664,000 compared to \$3,484,000 in 2012. The decrease was the result of lower orders or the delay in receiving orders from several larger customers compared to 2012. The decline in sales in 2012 compared to 2011 was mainly the result of lower orders from one larger customer whose systems containing our products resulting in a decrease of approximately \$1,750,000 or 81%.

The Company serves the non-military laser industry as an OEM supplier of standard and custom optical components and laser accessories. Sales to this market were \$1,473,000 in 2013 and \$1,471,000 and \$539,000 in 2012 and 2011, respectively. Overall, sales of laser devices and related products represented 26.6% of sales in 2013 and 21.2% and 9.5% of total sales in 2012 and 2011, respectively.

Sales to customers within the university and national laboratories market sector increased in 2013 to \$1,064,000 compared to \$410,000 in 2012 mainly as a result of an increase in customer orders from a catalogue distributor that sells our products in this market.



In 2012, the Company's overall revenues decreased 13.5% compared to 2011 as the decrease sales of optical components of 25.9% was offset by an increase in sales of laser system devices and instrumentation that were almost double their sales in 2011. Sales to the defense and aerospace market of \$5,089,000 in 2012 declined 24.4% from sales of \$6,734,000 in 2011 while sales to the process control and metrology market also decreased by 26.7% to \$3,484,000 in 2012 from \$4,752,000 in 2011. These declines were partially offset by an increase to the overall the market for laser systems and related products which increased in 2012 to \$2,421,000 from \$1,255,000 in 2011.

In 2012, sales to university and national laboratories decreased to \$410,000 compared to \$436,000 in 2011. Although the results as a percentage of total sales vary slightly from year to year, the total dollar amount remained relatively unchanged over the past three years and is dependent on research projects and the availability of funding for such projects.

### Bookings

The Company booked new orders totaling \$9.8 million in 2013, a decrease of 20.3% from \$12.3 million in 2012 as orders from aerospace and defense and government entities continued to be slow reflecting the ongoing reduction for certain U.S defense spending.

The Company booked new orders totaling \$12.3 million in 2012, a decrease of 4.7% from \$12.9 million in 2011. The decrease reflected the net effect of a decline in process control and metrology bookings. This was mostly offset by increases in both defense and aerospace, and laser systems bookings.

The Company's backlog as of December 31, 2013 also showed a decrease of approximately 25% to \$4.4 million from \$5.9 million as of December 31, 2012 and 12% from \$5.0 million as of December 31, 2011.

### Cost of Goods Sold and Gross Profit Margin

Cost of goods sold as a percentage of sales was 85.1% and 78.2% for the years ended December 31, 2013 and 2012, respectively. In 2013, cost of goods sold was \$9,561,000 and included restructuring costs of \$313,000, which are described in Note 16 of the Consolidated Financial Statements, related to the closing of the Sarasota, FL facility and the associated relocation of the operations to the Northvale, NJ facility.

The increase in the cost of goods sold in 2013, was mainly due to restructuring costs and an increase in the overhead cost component of product shipped, partially offset by a decrease in material costs that was mainly due to the mix of products sold in 2013. Manufacturing wages and salaries and related fringe benefit expenses were relatively unchanged in 2013 compared to 2012.

In 2012, cost of goods sold was \$8,914,000 or 78.2% of sales compared to \$9,615,000 or 73.9% in 2011, reflecting the impact of a sales decrease in 2012 of 13.5%. However, the decrease in cost of goods sold was at a slower rate than sales due to the relatively fixed nature of the Company's overhead expenses.

Materials costs and direct manufacturing expenses were lower in 2012 compared to 2011, commensurate with decreases in sales. Compared to 2011, material costs decreased by \$463,000 but as a percentage of sales remained unchanged. Non-labor manufacturing expenses excluding depreciation also decreased by \$135,000 in 2012. Although the cost of manufacturing wages and salaries remained relatively unchanged from 2011, the cost of related fringe benefits increased by 14% mainly as a result of increases in employee health benefits costs.

Gross margin in 2013 was \$1,675,000 or 14.9% which is a decrease from 2012 from \$2,490,000 or 21.8%. This compares with a gross margin of \$3,562,000 or 27% or approximately \$1,773,000 in 2011.

#### Selling, General and Administrative Expenses

Selling, general and administrative expenses ("SG&A") were \$3,173,000 in 2013, a decrease of \$166,000 or 5% from 2012. The decrease reflects the impact of the workforce reduction in 2013 and the absence of marketing costs incurred in 2012 associated with the Company's name change and re-branding. As a percentage of sales, SG&A also decreased to 28.2% of sales in 2013 compared to 29.3% in 2012.

Selling, general and administrative expenses were \$3,339,000 in 2012, up \$84,000 or 2.6% from 2011. This reflects additional marketing costs associated with the Company's name change and re-branding in early 2012. As a percentage of sales, SG&A expenses increased to 29.3% of 2012 sales compared to 24.7% of sales in 2011 as a result of the name change, as well as the impact of lower sales and fixed SG&A expenses.

#### Operating (Loss) Income

In 2013, the Company had an operating loss \$1,497,000 compared to \$849,000 last year which primarily reflects the impact of lower sales and the additional expenses related to accrued restructuring costs in 2013. In 2012, the Company had an operating loss of \$849,000 compared to operating income of \$307,000 in 2011 which primarily reflects the

decrease in sales volumes in 2012 from customers that experienced a large decline in demand for our products.

Other Income and Expenses

Net interest expense of \$189,000 in 2013 increased 15.3% from \$164,000 in 2012. Interest expense was \$194,000 in 2013 compared to \$181,000 in 2012 mainly due to the full year impact of the term loan payable entered into with Valley National Bank in July 2012 and normal debt repayments. Interest income for 2013 decreased to \$8,000 from \$16,000 in 2012 mainly as a result of changes in short term cash balances.

In 2013, the Company sold and disposed of surplus equipment and recorded a gain of \$32,960.

Net interest expense of \$164,000 in 2012 increased 25.8% from \$130,000 in 2011. Interest expense was \$181,000 in 2012 compared to \$164,000 in 2011 which was mainly due to the addition of a term loan payable entered into with Valley National Bank in July 2012 and normal debt repayments. Interest income for 2012 decreased to \$16,000 from \$33,000 in 2011 mainly as a result of changes in short term cash balances.

Income Taxes

In 2013, the Company did not record a current provision for either state tax or federal alternative minimum tax due to the losses incurred for both income tax and financial reporting purposes.

As of December 31, 2011, the Company had a deferred tax asset of \$408,000 which we estimated would be recoverable in future periods. In evaluating the Company's ability to recover deferred tax assets in future periods, management considers the available positive and negative factors, including the Company's recent operating results, the existence of cumulative losses and near term forecasts of future taxable income that is consistent with the plans and estimates management is using to manage the underlying business. A significant piece of objective negative evidence evaluated was the cumulative loss incurred by the Company over the three-year period ended December 31, 2012. Such objective evidence limits the ability to consider other subjective evidence such as our projections for future growth.

On the basis of this evaluation, as of December 31, 2012, the Company concluded it is more likely than not that it will not be able to realize any portion of the benefit on the deferred tax assets and the valuation allowance was increased by \$603,000 to provide a full valuation against the net deferred tax assets as of December 31, 2012. As a result, the Company recorded a provision of \$408,000 for federal deferred income tax to write off the balance of the Company's deferred tax asset.

In 2011, the Company recorded a current provision for state tax and federal alternative minimum tax in the amount of \$11,000.

#### Net (Loss) Income

In 2013, the Company recorded a net loss of \$1,650,000 compared to a net loss of \$1,421,000 in 2012 mainly as a result of the impact of certain overhead costs included in cost of goods sold described above. In 2012, the Company recorded a net loss of \$1,421,000 in 2012 compared to net income of \$165,000 in 2011 primarily as a result of lower sales volumes and its impact on the relatively fixed cost structure of the Company and a deferred tax asset write-off of \$408,000.

#### Liquidity and Capital Resources

The Company's primary source of liquidity is cash and cash equivalents and on-going collection of our accounts receivable. Other sources of liquidity include the proceeds received from term notes. The Company's major uses of cash in the past three years have been for operating expenses, capital expenditures and for repayment and servicing of outstanding debt and accrued interest.

As of December 31, 2013 and December 31, 2012, we had cash and cash equivalents of \$2,451,000 and \$3,089,000, respectively.

On July 26, 2012, the Company entered into a term loan agreement with Valley National Bank, Wayne, NJ, in the amount of \$750,000. The loan is secured with a security interest in new equipment acquired by the Company in the amount of \$825,000 which will enhance the Company's thin film coating capabilities. The loan is repayable in equal monthly installments over five years beginning in August 2012 and bears an interest rate of 4.35% annually. During 2012, the Company made a down-payment of \$500,000 on the equipment which was included with Other Assets at December 31, 2012. The balance of the purchase price of \$325,000 was paid in 2013 when the equipment was placed in service. The full amount of the asset is included in Machinery and Equipment at December 31, 2013.

In 2012, proceeds from the exercise of 10,700 stock options and issuance of 5,000 common shares totaled \$5,349.

In July 2012, the maturity dates of a \$1,500,000 Subordinated Convertible Promissory Note to Clarex Limited ("Clarex") and a \$1,000,000 Subordinated Convertible Promissory Note to an affiliate of Clarex were extended to April

1, 2015 from April 1, 2013. The remaining terms and conditions of the notes were unchanged. These notes were previously issued on April 1, 2009 and had a maturity date of April 1, 2011 which was extended to April 1, 2013. The notes bear interest at 6%. Interest accrues yearly, is payable on maturity and unpaid interest along with principal may be converted into securities of the Company as follows: The notes are convertible in the aggregate into 1,500,000 Units and 1,000,000 Units, respectively, with each unit consisting of one share of common stock and one warrant. Each warrant allows the holder to acquire 0.75 shares of common stock at a price of \$1.35 per share and has an expiration date of April 1, 2016. Clarex is a significant shareholder of the Company.

The Company paid \$150,000 of current interest on the two notes during 2013 and 2012, respectively. During 2011, the Company paid a total of \$1,125,000 of accrued interest and \$150,000 of current interest on the notes.

The Company expects to make quarterly interest payments of \$37,500 through the maturity dates of the notes.

The Company had capital expenditures in 2013 of \$456,000 that consists of the remaining balance payment for the new thin film coating equipment of \$325,000 and other expenditures to the operating facilities and the purchase of new or replacement manufacturing equipment.

In 2012, the Company made a \$500,000 deposit on new equipment in 2012 shown within Other Assets on the Consolidated Balance Sheets at December 31, 2012, and had capital expenditures of \$293,000 primarily to refurbish operating facilities, purchase new or replacement manufacturing equipment and re-design the Company website.

In 2011, the Company had capital expenditures of \$304,000 primarily to replace equipment or refurbish facilities, purchase equipment upgrades to the computer information system and manufacturing equipment. In 2011, the Company also purchased additional manufacturing tools made from platinum at a net cost of \$318,000 to further increase our crystal growth capacity at our Northvale, New Jersey facility.

In 2013, cash decreased by \$638,000 compared to a decrease of \$311,000 in 2012. In 2011, cash decreased by \$965,000.

Cash flows pertaining to our source and use of cash are presented below (in thousands):

|  | Years ended December 31, |           |           |
|--|--------------------------|-----------|-----------|
|  | 2013                     | 2012      | 2011      |
| Net cash (used in) provided by operations  | \$ (70 )                 | \$ (208 ) | \$ (358 ) |
| Net Proceeds from issuance of common stock, exercise of stock options and warrants | —                        | 5         | 18        |
| Capital Expenditures & down payment on equipment                                   | (456 )                   | (793 )    | (304 )    |
| Precious Metals  | —                        | —         | (318 )    |

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|   |        |       |      |
|---|--------|-------|------|
| Proceeds on sale or disposal of plant and equipment | 38     | —     | 6    |
| Principal proceeds from term note payable           | —      | 750   | —    |
| Principal payments on debt obligations              | (150 ) | (66 ) | (9 ) |

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Overview of Financial Condition

As shown in the accompanying financial statements, the Company recorded a net loss of \$1,650,000 compared to a net loss of \$1,421,000 in 2012 and net income of \$165,000 in 2011. The net loss in 2012 included a non-cash deferred tax provision of \$408,000 from an increase to the valuation allowance. During 2013, the Company's working capital requirements were provided by cash from operation and available cash balances. During 2012, the Company's working capital requirements were provided by cash from operations, available cash balances and proceeds from a bank term note payable. During 2011, the Company's working capital requirements were provided by cash from operations and available cash balances.

In 2013, net cash used by operations was \$70,000 compared to net cash used by operations of \$208,000 in 2012. The decrease was primarily the result of a decrease in inventory (excluding reserve) and an increase in accounts payable and accrued expenses, offset primarily by a decrease in customer advances and an increase in the net loss generated in 2013 compared to 2012.

In 2012, net cash used by operations was \$208,000 compared to net cash used by operations of \$358,000 in 2011. The decrease was primarily the result of the payment of accrued interest in 2011, a decrease in accounts receivable and an increase in customer advances, offset primarily by the net loss generated in 2012, an increase in inventory (excluding reserve) during the year, and a decrease in accounts payable and accrued liabilities.

The Company's management expects that future cash flow from operations and its existing cash reserves will provide adequate liquidity for the Company's operations and working capital requirements in 2014.

Contractual Obligations

The following table describes our contractual obligations as of December 31, 2013 (in thousands).

| Contractual Obligations                 | Total   | Less than<br>1 Year | 1-3 Years | 4-5<br>Years | Greater<br>Than 5<br>Years |
|---|---------|---------------------|-----------|--------------|----------------------------|
| Convertible notes payable               | \$2,500 | \$ —                | \$ 2,500  | \$ —         | \$ —                       |
| Notes payable-other, including interest | 1,055   | 190                 | 501       | 46           | 318                        |
| Total contractual cash obligations      | \$3,555 | \$ 190              | \$ 3,001  | \$ 46        | \$ 318                     |

Off-Balance Sheet Arrangements

The Company did not have any off-balance sheet arrangements at December 31, 2013 and 2012

**Item 7A. Quantitative and Qualitative Disclosures about Market Risk**

N/A

**Item 8. Financial Statements and Supplementary Data**

The financial statements and supplementary financial information required to be filed under this Item are presented commencing on page 23 of the Annual Report on Form 10-K, and are incorporated herein by reference.

**Item 9. Changes In and Disagreements with Accountants on Accounting and Financial Disclosure**

None

**Item 9A. Controls and Procedures**

- a) Evaluation of Disclosure Controls and Procedures

The Company's management, including the Chief Executive Officer and the Chief Financial Officer, has evaluated the effectiveness of the design and operation of the Company's disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) as of the end of the period covered by this Annual Report on Form 10-K. Based upon that evaluation, the Company's Chief Executive Officer and Chief Financial Officer have concluded that the disclosure controls and procedures as of December 31, 2013 are effective to ensure that information required to be disclosed in the reports the Company files or submits under the Exchange Act is recorded, processed, summarized and reported within the time periods specified in the SEC's rules and forms and that such information is accumulated and communicated to the Company's management, including the Chief Executive Officer and the Chief Financial Officer, to allow timely decisions regarding disclosure.

- b) Management's Annual Report on Internal Control over Financial Reporting

Our management is responsible for establishing and maintaining an adequate system of internal control over financial reporting. Our internal control over financial reporting includes those policies and procedures that:

- pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of our assets;
- provide reasonable assurance that transactions are recorded as necessary to permit preparation of our financial statements in accordance with generally accepted accounting principles in the United States, and that our receipts and expenditures are being made only in accordance with authorizations of our management and directors; and
- provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use or disposition of our assets that could have a material effect on the financial statements.

Due to its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate. All internal control systems, no matter how well designed, have inherent limitations. Therefore, even those systems determined to be effective can provide only reasonable assurance with respect to financial statement preparation and presentation. Because of the inherent limitations of internal control, there is a risk that material misstatements may not be prevented or detected on a timely basis by internal control over financial reporting. However, these inherent limitations are known features of the financial reporting process. Therefore, it is possible to design into the process safeguards to reduce, though not eliminate, this risk.

Our management assessed the effectiveness of our system of internal control over financial reporting as of December 31, 2013. In making this assessment, management used the original framework in Internal Control — Integrated Framework (1992) issued by the Committee of Sponsoring Organizations of the Treadway Commission (“COSO”). Based on our assessment and the criteria set forth by COSO, management has concluded that the Company maintained effective internal control over financial reporting as of December 31, 2013.

c) Changes in Internal Control over Financial Reporting

There have been no significant changes in the Company’s internal control over financial reporting identified in connection with the evaluation that occurred during the Company’s last fiscal quarter that have materially affected, or that are reasonably likely to materially affect, the Company’s internal controls over financial reporting.

Item 9B Other Information

None

PART III

Item 10. Directors and Executive Officers of the Registrant and Corporate Governance

The information required under this item is incorporated by reference to the Company's Proxy Statement for the 2014 Annual Meeting of Stockholders.

Item 11. Executive Compensation

The information required under this item is incorporated by reference to the Company's Proxy Statement for the 2014 Annual Meeting of Stockholders.

Item 12. Security Ownership of Certain Beneficial Owners and Management

The information required under this item is incorporated by reference to the Company's Proxy Statement for the 2014 Annual Meeting of Stockholders.

Item 13. Certain Relationships and Related Transactions

The information required under this item is incorporated by reference to the Company's Proxy Statement for the 2014 Annual Meeting of Stockholders.

Item 14. Principal Accountant Fees and Services

The information required under this item is incorporated by reference to the Company's Proxy Statement for the 2014 Annual Meeting of Stockholders.

PART IV

Item 15. Exhibits and Financial Statement Schedules

**(a) (1) Financial Statements.**

Reference is made to the Index to Financial Statements and Financial Statement Schedule commencing on Page 24.

**(a) (2) Financial Statement Schedule.**

Reference is made to the Index to Financial Statements and Financial Statement Schedule on Page 24. All other schedules have been omitted because the required information is not present or is not present in amounts sufficient to require submission of the schedule, or because the information required is included in the Financial Statements or Notes thereto.

**(a) (3) Exhibits.**

| <b>Exhibit No.</b> | <b>Description of Exhibit</b>   |
|--------------------|---|
| 3.1                | Restated Certificate of Incorporation of Photonics Products Group, Inc. (incorporated by reference to Exhibit 3.1 to the Company's Registration Statement on Form S-1 filed with the Securities and Exchange Commission on August 25, 2004)   |
| 3.2                | By-Laws of Photonic Products Group, Inc. (incorporated by reference to Exhibit 3.2 to the Company's Registration Statement on Form S-1 filed with the Securities and Exchange Commission on August 25, 2004)  |
| 3.3                | Certificate of Amendment to Restated Certificate of Incorporation of Photonics Products Group, Inc., dated June 2, 2010 (incorporated by reference to Exhibit 3.1 to the Company's Current Report on Form 8-K filed with the Securities and Exchange Commission on June 7, 2010).         |
| 3.4                | Certificate of Amendment to Restated Certificate of Incorporation of Photonics Products Group, Inc., dated January 23, 2012 (incorporated by reference to Exhibit 3.1 to the Company's Current Report on Form 8-K filed with the Securities and Exchange Commission on January 23, 2012). |
| 4.1                | Specimen Common Stock Certificate (incorporated by reference to Exhibit 4.1 to the Company's Registration Statement on Form S-1 filed with the Securities and Exchange Commission on August 25, 2004)   |
| 4.2                | Subordinated Convertible Promissory Note dated April 1, 2009 held by Clarex, Ltd. (incorporated by reference to Exhibit 4.12 to the Company's Annual Report on Form 10-K filed with the Securities and Exchange Commission on March 31, 2009)   |
| 4.3                |   |

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- Subordinated Convertible Promissory Note dated April 1, 2009 held by Welland, Ltd. (incorporated by reference to Exhibit 4.13 to the Company's Annual Report on Form 10-K filed with the Securities and Exchange Commission on March 31, 2009)
- 4.4 Subordinated Convertible Promissory Note dated April 1, 2011 held by Clarex, Ltd. (which will supersede document 4.10) (incorporated by reference to Exhibit 4.12 to the Company's Annual Report on 10-K filed with the Securities and Exchange Commission on March 31, 2011)
- 4.5 Subordinated Convertible Promissory Note dated April 1, 2011 held by Welland, Ltd. (which will supersede document 4.10) (incorporated by reference to Exhibit 4.13 to the Company's Annual Report on 10-K filed with the Securities and Exchange Commission on March 31, 2011)
- 10.1 2000 Equity Compensation Program (incorporated by reference to Exhibit 10.1 to the Company's Registration Statement on Form S-1 filed with the Securities and Exchange Commission on August 25, 2004)
- 10.2 2010 Equity Compensation Program (incorporated by reference to Exhibit B to the Company's Proxy Statement for the 2010 Meeting of Stockholders filed with the Securities and Exchange Commission on April 30, 2010)
- 14.1 Code of Ethics (incorporated by reference to Exhibit 14.1 to the Company's Annual Report on Form 10-K filed with the Securities and Exchange Commission on March 31, 2006)
- 21.1 List of Subsidiaries (incorporated by reference to Exhibit 21.1 to the Company's Annual Report on Form 10-K filed with the Securities and Exchange Commission on March 31, 2006)
- 23.1 Consent of Baker Tilly Virchow Krause, LLP Independent Registered Public Accounting Firm
- 31.1 Certification of Chief Executive Officer pursuant to Section 302 of the Sarbanes-Oxley Act of 2002
- 31.2 Certification of Chief Financial Officer pursuant to Section 302 of the Sarbanes-Oxley Act of 2002
- 32.1 Certification of Chief Executive Officer pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002
- 32.2 Certification of Chief Financial Officer pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002

SIGNATURES

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

INRAD OPTICS, INC.

By: /s/ Amy Eskilson  
Amy Eskilson  
Chief Executive Officer

Dated: March 31, 2014

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of the registrant and in the capacities and on the dates indicated.

| <b>Signature</b>                                 | <b>Title</b>                                       | <b>Date</b>    |
|--|--|----------------|
| /s/ Jan M. Winston<br>Jan M. Winston             | Chairman of the Board<br>of Directors              | March 31, 2014 |
| /s/ Luke P. LaValle, Jr.<br>Luke P. LaValle, Jr. | Director   | March 31, 2014 |
| /s/ Dennis G. Romano<br>Dennis G. Romano         | Director   | March 31, 2014 |
| /s/ N.E. Rick Strandlund<br>N.E. Rick Strandlund | Director   | March 31, 2014 |
| /s/ Amy Eskilson<br>Amy Eskilson                 | President, Chief Executive Officer<br>and Director | March 31, 2014 |
| /s/ William J. Foote                             | Chief Financial Officer, Secretary,                | March 31, 2014 |



William J. Foote

Treasurer and Principal Accounting Officer

**INRAD OPTICS, INC. AND SUBSIDIARIES**

**INDEX TO THE CONSOLIDATED FINANCIAL STATEMENTS**

**THREE YEARS ENDED DECEMBER 31, 2013**

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**Report of Independent Registered Public Accounting Firm**

Board of Directors and Shareholders

Inrad Optics, Inc. and Subsidiaries

Northvale, New Jersey

We have audited the accompanying consolidated balance sheets of Inrad Optics, Inc. and Subsidiaries (the “Company”) as of December 31, 2013 and 2012, and the related consolidated statements of operations, shareholders' equity and cash flows for each of the three years in the period ended December 31, 2013. We have also audited the schedule listed in Item 15(a)(2) of this Form 10-K for the years ended December 31, 2013, 2012 and 2011. These consolidated financial statements and financial statement schedule are the responsibility of the Company's management. Our responsibility is to express an opinion on these consolidated financial statements and financial statement schedule based on our audits.

We conducted our audits in accordance with the standards of the Public Company Accounting Oversight Board (United States). Those standards require that we plan and perform the audits to obtain reasonable assurance about whether the consolidated financial statements are free of material misstatement. The Company is not required to have, nor were we engaged to perform, an audit of its internal control over financial reporting. Our audits included consideration of internal control over financial reporting as a basis for designing audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control over financial reporting. Accordingly, we express no such opinion. An audit includes examining on a test basis, evidence supporting the amounts and disclosures in the consolidated financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as, evaluating the overall consolidated financial statement presentation. We believe that our audits provide a reasonable basis for our opinion.

In our opinion, the consolidated financial statements referred to above present fairly, in all material respects, the financial position of Inrad Optics, Inc. and Subsidiaries as of December 31, 2013 and 2012, and the results of their operations and their cash flows for each of the three years in the period ended December 31, 2013, in conformity with accounting principles generally accepted in the United States of America. Also in our opinion, the related financial statement schedule, when considered in relation to the basic financial statements taken as a whole, presents fairly in all material respects the information set forth therein.

/s/Baker Tilly Virchow Krause, LLP

New York, New York

March 31, 2014

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**INRAD OPTICS, INC. AND SUBSIDIARIES****CONSOLIDATED BALANCE SHEETS**

|   | December 31,       |                     |
|---|--------------------|---------------------|
|   | 2013               | 2012                |
| <b>Assets</b>   |                    |                     |
| <b>Current Assets:</b>  |                    |                     |
| Cash and cash equivalents   | \$2,451,263        | \$3,089,013         |
| Accounts receivable (net of allowance for doubtful accounts of \$15,000 in 2013 and 2012)   | 1,236,958          | 1,557,930           |
| Inventories, net  | 3,129,855          | 3,596,646           |
| Other current assets  | 144,581            | 158,742             |
| <b>Total Current Assets</b>   | <b>6,962,657</b>   | <b>8,402,331</b>    |
| <b>Plant and Equipment:</b>   |                    |                     |
| Plant and equipment at cost   | 15,638,759         | 15,446,826          |
| Less: Accumulated depreciation and amortization   | (13,931,775)       | (14,182,712)        |
| <b>Total plant and equipment</b>  | <b>1,706,984</b>   | <b>1,264,114</b>    |
| Precious Metals   | 474,960            | 474,960             |
| Deferred Income Taxes   | —                  | —                   |
| Goodwill  | 311,572            | 311,572             |
| Intangible Assets, net of accumulated amortization  | 358,760            | 437,324             |
| Other Assets  | 33,122             | 534,838             |
| <b>Total Assets</b>   | <b>\$9,848,055</b> | <b>\$11,425,139</b> |
| <b>Liabilities and Shareholders' Equity</b>   |                    |                     |
| <b>Current Liabilities:</b>   |                    |                     |
| Current portion of long-term notes payable -other   | \$156,600          | \$150,200           |
| Accounts payable and accrued liabilities  | 967,963            | 813,705             |
| Customer advances   | 146,784            | 297,251             |
| <b>Total Current Liabilities</b>  | <b>1,271,347</b>   | <b>1,261,156</b>    |
| <b>Related Party Convertible Notes Payable</b>  | <b>2,500,000</b>   | <b>2,500,000</b>    |
| <b>Long Term Notes Payable, net of current portion</b>  | <b>712,868</b>     | <b>869,135</b>      |
| <b>Total Liabilities</b>  | <b>4,484,215</b>   | <b>4,630,291</b>    |
| <b>Commitments</b>  |                    |                     |
| <b>Shareholders' Equity:</b>  |                    |                     |
| Common stock: \$.01 par value; 60,000,000 authorized shares 12,050,603 issued at December 31, 2013 and 11,881,724 issued at December 31, 2012 | 120,508            | 118,819             |
| Capital in excess of par value  | 18,293,782         | 18,076,518          |
| Accumulated deficit   | (13,035,500)       | (11,385,539)        |

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|   |             |              |
|---|-------------|--------------|
|   | 5,378,790   | 6,809,798    |
| Less - Common stock in treasury, at cost (4,600 shares) | (14,950 )   | (14,950 )    |
| Total Shareholders' Equity                              | 5,363,840   | 6,794,848    |
| Total Liabilities and Shareholders' Equity              | \$9,848,055 | \$11,425,139 |

See notes to consolidated financial statements

**INRAD OPTICS, INC. AND SUBSIDIARIES****CONSOLIDATED STATEMENTS OF OPERATIONS**

|  | Years Ended December 31, |                |              |
|--|--------------------------|----------------|--------------|
|  | 2013                     | 2012           | 2011         |
| Revenues   |                          |                |              |
| Net sales  | \$11,235,654             | \$11,403,827   | \$13,177,194 |
| Cost and expenses                                      |                          |                |              |
| Cost of goods sold                                     | 9,247,515                | 8,913,178      | 9,614,875    |
| Restructuring costs                                    | 312,778                  | —              | —            |
| Selling, general and administrative expense            | 3,172,512                | 3,339,365      | 3,255,073    |
|  | 12,732,805               | 12,252,543     | 12,869,948   |
| Operating (loss) income                                | (1,497,151 )             | (848,716 )     | 307,246      |
| Other income (expense), net                            |                          |                |              |
| Interest expense, net                                  | (185,770 )               | (164,117 )     | (130,497 )   |
| Gain (loss) on sale or disposal of plant and equipment | 32,960                   | —              | (1,003 )     |
|  | (152,810 )               | (164,117 )     | (131,500 )   |
| (Loss) income before income taxes                      | (1,649,961 )             | (1,012,833 )   | 175,746      |
| Income tax provision                                   | —                        | 408,000        | 11,000       |
| Net (loss) income                                      | \$(1,649,961 )           | \$(1,420,833 ) | \$164,746    |
| Net (loss) income per share - basic                    | \$(0.14 )                | \$(0.12 )      | \$0.01       |
| Net (loss) income per share - diluted                  | \$(0.14 )                | \$(0.12 )      | \$0.01       |
| Weighted average shares outstanding - basic            | 11,975,900               | 11,825,583     | 11,658,891   |
| Weighted average shares outstanding – diluted          | 11,975,900               | 11,825,583     | 11,753,669   |

See notes to consolidated financial statements

## INRAD OPTICS, INC. AND SUBSIDIARIES

## CONSOLIDATED STATEMENTS OF SHAREHOLDERS' EQUITY

|  | Common Stock |            | Capital in<br>excess of<br>par value | Accumulated<br>Deficit | Treasury<br>Stock | Total<br>Shareholders'<br>Equity |
|--|--------------|------------|--------------------------------------|------------------------|-------------------|----------------------------------|
|  | Shares       | Amount     |                                      |                        |                   |                                  |
| Balance, January 1, 2011                       | 11,562,656   | \$ 115,626 | \$ 17,402,528                        | \$(10,129,452)         | \$(14,950)        | \$ 7,373,752                     |
| 401K contribution                              | 124,669      | 1,249      | 128,749                              | —                      | —                 | 129,998                          |
| Common stock issued on exercise of options     | 20,000       | 200        | 18,800                               | —                      | —                 | 19,000                           |
| Common stock issued on vesting of stock grants | 6,239        | 62         | (802 )                               | —                      | —                 | (740 )                           |
| Stock-based compensation expense               | —            | —          | 171,239                              | —                      | —                 | 171,239                          |
| Net income for the year                        | —            | —          | —                                    | 164,746                | —                 | 164,746                          |
| Balance, December 31, 2011                     | 11,713,564   | 117,137    | 17,720,514                           | (9,964,706 )           | (14,950)          | 7,857,995                        |
| 401K contribution                              | 152,460      | 1,525      | 150,250                              | —                      | —                 | 151,775                          |
| Common stock issued on exercise of options     | 10,700       | 107        | 5,242                                | —                      | —                 | 5,349                            |
| Common stock issued on vesting of stock grants | 5,000        | 50         | (50 )                                | —                      | —                 | —                                |
| Stock-based compensation expense               | —            | —          | 200,562                              | —                      | —                 | 200,562                          |
| Net loss for the year                          | —            | —          | —                                    | (1,420,833 )           | —                 | (1,420,833 )                     |
| Balance, December 31, 2012                     | 11,881,724   | 118,819    | 18,076,518                           | (11,385,539)           | (14,950)          | 6,794,848                        |
| 401K contribution                              | 163,879      | 1,639      | 79,283                               | —                      | —                 | 80,922                           |
| Common stock issued on vesting of stock grants | 5,000        | 50         | (50 )                                | —                      | —                 | —                                |
| Stock-based compensation expense               | —            | —          | 138,031                              | —                      | —                 | 138,031                          |



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|                            |            |           |              |                |            |              |
|----------------------------|------------|-----------|--------------|----------------|------------|--------------|
| Net loss for the year      | —          | —         | —            | (1,649,961 )   | —          | (1,649,961 ) |
| Balance, December 31, 2013 | 12,050,603 | \$120,508 | \$18,293,782 | \$(13,035,500) | \$(14,950) | \$5,363,840  |

See notes to consolidated financial statements

**INRAD OPTICS, INC AND SUBSIDIARIES****CONSOLIDATED STATEMENTS OF CASH FLOWS**

|  | Years Ended December 31, |               |             |
|--|--------------------------|---------------|-------------|
|  | 2013                     | 2012          | 2011        |
| Cash flows from operating activities:  |                          |               |             |
| Net (loss) income  | \$(1,649,961)            | \$(1,420,833) | \$164,746   |
| Adjustments to reconcile net (loss) income to net cash (used in) operating activities: |                          |               |             |
| Depreciation and amortization  | 586,636                  | 650,170       | 835,788     |
| 401K common stock contribution   | 80,922                   | 151,775       | 129,998     |
| Deferred income taxes  | —                        | 408,000       | —           |
| (Gain) loss on sale or disposal of plant and equipment                                 | (32,960 )                | —             | 1,003       |
| Stock-based compensation expense   | 138,031                  | 200,562       | 171,239     |
| Change in inventory reserve  | 161,311                  | 194,695       | 55,174      |
| Changes in operating assets and liabilities:   |                          |               |             |
| Accounts receivable  | 320,972                  | 494,957       | 171,705     |
| Inventories  | 305,480                  | (881,821 )    | (573,818 )  |
| Other current assets   | 14,161                   | 26,556        | (66,055 )   |
| Other assets   | 1,716                    | 1,718         | 10,679      |
| Accounts payable and accrued liabilities   | 154,258                  | (64,052 )     | 41,567      |
| Customer advances  | (150,467 )               | 30,433        | (175,169 )  |
| Accrued interest on Related Party Convertible Note Payable                             | —                        | —             | (1,125,000) |
| Total adjustments  | 1,580,060                | 1,212,993     | (522,889 )  |
| Net cash (used in) operating activities  | (69,901 )                | (207,840 )    | (358,143 )  |
| Cash flows from investing activities:  |                          |               |             |
| Purchase of plant and equipment  | (455,982 )               | (292,603 )    | (303,999 )  |
| Down payment on purchase of equipment  | —                        | (500,000 )    | —           |
| Purchase of precious metals  | —                        | —             | (317,517 )  |
| Proceeds from disposal of plant and equipment  | 38,000                   | —             | 6,000       |
| Net cash (used in) investing activities  | (417,982 )               | (792,603 )    | (615,516 )  |
| Cash flows from financing activities:  |                          |               |             |
| Net proceeds from issuance of common stock   | —                        | 5,349         | 18,260      |
| Proceeds from term note payable  | —                        | 750,000       | —           |
| Principal payments of notes payable-other  | (149,867 )               | (66,098 )     | (9,441 )    |
| Net cash (used in) provided by financing activities                                    | (149,867 )               | 689,251       | 8,819       |
| Net (decrease) in cash and cash equivalents  | (637,750 )               | (311,192 )    | (964,840 )  |

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|  |             |             |             |
|--|-------------|-------------|-------------|
| Cash and cash equivalents at beginning of the year | 3,089,013   | 3,400,205   | 4,365,045   |
| Cash and cash equivalents at end of the year       | \$2,451,263 | \$3,089,013 | \$3,400,205 |
| Supplemental Disclosure of Cash Flow Information:  |             |             |             |
| Interest paid                                      | \$191,000   | \$181,000   | \$1,289,000 |
| Income taxes paid                                  | \$2,000     | \$12,000    | \$18,000    |

See notes to consolidated financial statements

**INRAD OPTICS, INC. AND SUBSIDIARIES**

**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**

**THREE YEARS ENDED DECEMBER 31, 2013**

1. Nature of Business and Operations and Summary of Significant Accounting Policies and Estimates

a. Nature of Business and Operations

Inrad Optics, Inc. and Subsidiaries (the “Company”), formerly known as Photonic Products Group, Inc., was incorporated in the state of New Jersey and is a manufacturer of crystals, crystal devices, electro-optic and optical components, and sophisticated laser devices and instruments. The Company has manufacturing operations in Northvale, New Jersey and Sarasota, Florida. The Company announced plans to relocate the Sarasota operation to Northvale, New Jersey and expects to vacate the facility by March 31, 2014 when the operations have been fully consolidated within the Northvale facility.

The Company’s principal customers include commercial instrumentation companies and OEM laser systems manufacturers, research laboratories, government agencies, and defense contractors. The Company’s products are sold domestically using its own sales staff, and in major overseas markets, principally Europe, Israel, Japan, and Asia, using independent sales agents.

b. Principles of consolidation

The accompanying consolidated financial statements include the accounts of the Company and its wholly-owned subsidiaries. Upon consolidation, all inter-company accounts and transactions are eliminated.

c. Use of estimates

The preparation of financial statements in conformity with accounting principles generally accepted in the United States of America requires management to make certain estimates and assumptions. These estimates and assumptions

affect the reported amounts in the financial statements and accompanying notes. Actual results could differ from these estimates.

d. Cash and cash equivalents

The Company considers cash-on-hand and highly liquid investments with original maturity dates of three months or less at the date of purchase to be cash and cash equivalents. Investments with original maturity dates exceeding three months are separately disclosed on the Consolidated Balance Sheets and as cash flows from investing activities on the Consolidated Statements of Cash Flows.

e. Accounts receivable

Accounts receivable are carried at net realizable value, net of write-offs and allowances. The Company establishes an allowance for doubtful accounts based on estimates as to the collectability of accounts receivable. Management specifically analyzes past-due accounts receivable balances and, additionally, considers bad debt history, customer credit-worthiness, current economic trends and changes in customer payment terms when evaluating the adequacy of the allowance for doubtful accounts. Uncollectible accounts receivable are written-off when it is determined that the balance will not be collected.

f. Inventories

Inventories are stated at the lower of cost (first-in, first-out method) or market. Cost of manufactured goods includes material, labor and overhead.

The Company records a reserve for slow moving inventory as a charge against earnings for all products identified as surplus, slow moving or discontinued. Excess work-in-process costs are charged against earnings whenever estimated costs-of-completion exceed unbilled revenues.

g. Plant and Equipment

Plant and equipment are depreciated using the straight-line method over the estimated useful lives of the related assets which range between five and seven years. Amortization of leasehold improvements is computed using the straight-line method over the lesser of 10 years or the remaining term of the lease including optional renewal periods, as appropriate, when failure to renew the lease imposes an economic penalty on the Company in such an amount that renewal appears to be probable. In determining the amount of the economic penalty, management considers such factors as (i) the costs associated with the physical relocation of the offices, manufacturing facility and equipment, (ii) the economic risks associated with business interruption and potential customer loss during relocation and transition to

new premises (iii) the significant costs of leasehold improvements required at any new location to custom fit our specific manufacturing requirements, and (iv) the economic loss associated with abandonment of existing leasehold improvements or other assets whose value would be impaired by vacating the facility.

Maintenance and repairs of property and equipment are charged to operations and major improvements are capitalized. Upon retirement, sale or other disposition of property and equipment, the cost and accumulated depreciation are eliminated from the accounts and a gain or loss is recorded.

h. Income taxes

Deferred taxes are provided on the asset and liability method whereby deferred tax assets are recognized for deductible temporary differences and operating loss and tax credit carry forwards and deferred tax liabilities are recognized for taxable temporary differences. Temporary differences are the differences between the amounts of assets and liabilities recorded for income tax and financial reporting purposes. Deferred tax assets are reduced by a valuation allowance when, in the opinion of management, it is more likely than not that some portion or all of the deferred tax assets will not be realized. Deferred tax assets and liabilities are adjusted for the effects of changes in tax laws and rates on the date of enactment.

The Company recognizes the financial statement benefit of an uncertain tax position only after determining that the relevant tax authority would more likely than not sustain the position. For tax positions meeting the more likely than not threshold, the amount recognized in the financial statements is the largest benefit that has a greater than 50 % likelihood of being realized upon ultimate settlement with the relevant tax authority.

The Company classifies interest and penalties related to income taxes as income tax expense in its Consolidated Financial Statements.

The Company had no unrecognized tax benefits or liabilities, and no adjustment to its financial position, results of operations, or cash flows relating to uncertain tax positions taken on all open tax years. The Company is no longer subject to federal, state or local income tax examinations by tax authorities for the years before 2010.

i. Impairment of long-lived assets

Long-lived assets, such as plant and equipment and purchased intangibles with finite lives, which are subject to amortization, are reviewed for impairment whenever events or changes in circumstances indicate that the carrying amount of an asset may not be recoverable. Recoverability of assets to be held and used is measured by a comparison of the carrying amount of an asset to estimated undiscounted future cash flows expected to be generated by the asset. If the carrying amount of an asset exceeds its estimated future cash flows, an impairment charge is recognized by the amount by which the carrying amount of the asset exceeds the fair value of the assets. Long-lived assets held for sale would be separately presented in the balance sheet and reported at the lower of the carrying amount or fair value less costs to sell and would no longer be depreciated.

j. Goodwill and intangible assets with indefinite lives

Goodwill represents the excess of purchase price and related costs over the fair value assigned to the net tangible and identifiable assets of business acquisitions. Goodwill and intangible assets with indefinite lives are not amortized. The Company tests for impairment of goodwill and intangible assets with indefinite lives on an annual basis in December of each year, or more frequently whenever events occur or circumstances exist that indicates that impairment may exist.

k. Stock-based compensation

Stock based compensation expense is estimated at the grant date based on the fair value of the award. The Company estimates the fair value of stock options granted using the Black-Scholes option pricing model. The fair value of restricted stock units granted is estimated based on the closing market price of the Company's common stock on the date of the grant. The fair value of these awards, adjusted for estimated forfeitures, is amortized over the requisite service period of the award, which is generally the vesting period.

l. Revenue recognition

The Company records revenue from the sale of products and services used in the photonics industry when all four of the following criteria are met:

- persuasive evidence of an arrangement exists;
- delivery has occurred or services have been rendered;
- the sales price is fixed or determinable; and
- collectability is reasonably assured.

Losses on contracts in progress are recorded when identified.



m. Internal research and development costs

Internal research and development costs are charged to expense as incurred.

n. Precious metals

Precious metals consist of various fixtures used in the high temperature crystal growth manufacturing process. They are valued at the lower of cost or net realizable value.

o. Advertising costs

Advertising costs included in selling, general and administrative expenses were \$8,900, \$8,500 and \$16,000 for the years ended December 31, 2013, 2012 and 2011, respectively. Advertising costs are charged to expense when the related services are incurred or related events take place.

p. Concentrations and credit risk

The Company may invest its excess cash in certificates of deposits with major financial institutions. Generally, the investments range over a variety of maturity dates usually, within three to nine months, and therefore, are subject to little risk. The Company has not experienced losses related to these investments.

The concentration of credit risk in the Company's accounts receivable is mitigated by the Company's credit evaluation process, familiarity with its small base of recurring customers and reasonably short collection terms and the geographical dispersion of revenue. The Company generally does not require collateral but, in some cases, the Company negotiates cash advances prior to the undertaking of the work. These cash advances are recorded as current liabilities on the balance sheet until corresponding revenues are realized.

The Company utilizes many relatively uncommon materials and compounds to manufacture its products and relies on outside vendors for certain manufacturing services. Therefore, any failure by its suppliers to deliver materials of an adequate quality and quantity could have an adverse effect on the Company's ability to meet the commitments of its customers.

For the year ended December 31, 2013, the Company's top five customer accounts in the aggregate represented approximately 37.7% of total revenues, and the top three customers accounted for 24.9% of revenues. These three customers each represented approximately 9.4%, 8.2% and 7.3% of sales, respectively. Since the Company is a supplier of custom manufactured components to OEM customers, the relative size and identity of the largest customer accounts changes somewhat from year to year. In the short term, the loss of any one of these large customer accounts could have a material adverse effect on business, results of operations, and financial condition.

q. Fair value measurements

The Company follows U.S. GAAP accounting guidance which establishes a framework for measuring fair value and expanded related disclosures. The framework requires fair value to be determined based on the exchange price that would be received for an asset, or paid to transfer a liability (an exit price), in the principal or most advantageous market for the asset or liability in an orderly transaction between market participants.

The valuation techniques required are based upon observable and unobservable inputs. Observable inputs reflect market data obtained from independent sources, while unobservable inputs reflect the Company's market assumptions. The accounting guidance requires the following fair value hierarchy:

Level 1 - Quoted prices (unadjusted) for identical assets and liabilities in active markets that the Company has the ability to access at the measurement date.

Level 2 - Quoted prices for similar assets and liabilities in active markets; quoted prices for identical or similar assets and liabilities in markets that are not active; and inputs other than quoted prices that are observable for the asset or liability, including interest rates, yield curves and credit risks, or inputs that are derived principally from or corroborated by observable market data through correlation.

Level 3 - Values determined by models, significant inputs to which are unobservable and are primarily based on internally derived assumptions regarding the timing and amount of expected cash flows.

Long-lived assets, including goodwill and other intangible assets, may be measured at fair value if such assets are held for sale or if there is a determination that the asset is impaired. Managements' determination of fair value, although highly subjective, is based on the best information available, including internal projections of future earnings and cash flows discounted at an appropriate interest rate, quoted market prices when available, market prices for similar assets, broker quotes and independent appraisals, as appropriate.

r. New Accounting Guidance

In July 2013, the Financial Accounting Standards Board (“FASB”) issued Accounting Standards Update (“ASU”) 2013-11, “Presentation of an Unrecognized Tax Benefit When a Net Operating Loss Carryforward, a Similar Tax Loss, or a Tax Credit Carryforward Exists.” ASU 2013-11 clarifies the financial statement presentation of unrecognized tax benefits when a net operating loss carryforward, a similar tax loss, or a tax credit carryforward exists. ASU 2013-11 is effective for interim and annual reporting periods beginning after December 15, 2013 and should be applied prospectively to all unrecognized tax benefits that exist at the effective date. Management does not expect the adoption of ASU 2013-11 to have a material impact on the Company’s financial position, results of operations or cash flows.

No other recently issued accounting guidance was determined to be significant to the Company.

**2. Inventories, net**

Inventories are comprised of the following and are shown net of inventory reserves of approximately \$1,666,000 for 2013 and \$1,505,000 for 2012:

|  | December 31,   |         |
|--|----------------|---------|
|  | 2013           | 2012    |
|  | (In thousands) |         |
| Raw materials  | \$1,012        | \$1,267 |
| Work in process, including manufactured parts and components | 1,155          | 1,291   |
| Finished goods   | 963            | 1,039   |
|  | \$3,130        | \$3,597 |

**3. Plant and Equipment**

Plant and equipment are comprised of the following:

|                               | December 31,   |         |
|-------------------------------|----------------|---------|
|                               | 2013           | 2012    |
|                               | (In thousands) |         |
| Office and computer equipment | \$1,292        | \$1,508 |
| Machinery and equipment       | 12,045         | 11,700  |
| Leasehold improvements        | 2,302          | 2,239   |

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|  |          |          |
|--|----------|----------|
|  | 15,639   | 15,447   |
| Less accumulated depreciation and amortization | (13,932) | (14,183) |
|  | \$1,707  | \$1,264  |

Depreciation expense recorded by the Company totaled approximately \$508,000, \$571,000 and \$757,000 for 2013, 2012 and 2011, respectively. Plant and equipment with a net book value of \$5,040 and \$7,003 was disposed of in 2012 and 2011, respectively.

At December 31, 2012, the Company had an outstanding commitment to purchase new equipment for \$825,000. In 2012, the Company made a down-payment of \$500,000 on the equipment. This amount was included with Other Assets as of December 31, 2012. In March of 2013, an additional installment payment of \$242,500 was made upon delivery of the equipment to the Company's Northvale location. The balance of the purchase price of \$82,500 was paid in the second quarter of 2013 when the equipment was placed in service. The full amount of the asset is included in Machinery and Equipment at December 31, 2013.

The Company evaluates its property and equipment and intangible assets with finite lives for impairment when events or circumstances indicate and impairment may exist. Based on this evaluation, the Company concluded that, at December 31, 2013, its long-lived assets were not impaired.

#### **4. Goodwill**

The carrying value of goodwill was approximately \$312,000 at December 31, 2013 and 2012.

The Company tests for impairment of goodwill in December of each year. The testing for goodwill impairment initially involves an assessment of qualitative factors. This assessment serves as the basis for determining whether it is more likely than not, which is defined as greater than 50%, that the fair value of the reporting unit is less than its carrying amount, including goodwill. In assessing the qualitative factors, the Company considers factors such as economic conditions, industry and market considerations, cost factors, overall financial performance and other relevant events that may affect the reporting unit. If after assessing the totality of events and circumstances involving the reporting unit it is determined that it is not more likely than not that the fair value of the reporting unit is less than its carrying amount, then it is not necessary to perform the more detailed two-step process. If the assessment determines that it is more likely than not that the fair value of the reporting unit is less than its carrying amount an additional two-step process is followed for testing impairment of the goodwill. The first step compares the fair value of each reporting unit to its carrying value. If the fair value of the reporting unit exceeds its carrying amount, goodwill is not considered to be impaired as of the measurement date. Otherwise, if the carrying value exceeds the fair value, a second step must be followed to determine the level of impairment. In establishing the fair value of the reporting unit, the Company uses both a market based approach and an income based approach as part of its valuation methodology. Since quoted market prices in an active market are not separately available for the Company's reporting units, the market based method estimates the fair value of the reporting unit utilizing an industry multiple of projected earnings before interest taxes, depreciation and amortization ("EBITDA"). Due to the small capitalization value of the Company, the low trading volume of its stock and the niche market served by its products, the application of available industry comparables in establishing fair value requires a high degree of management judgment, and the actual fair value that could be realized could differ from those used to evaluate the impairment of goodwill. The income approach determines fair value based on the estimated discounted cash flows that each reporting unit is expected to generate in the future. For each method, the sensitivity of key assumptions are tested by using a range of estimates and the results of each method are corroborated as part of management's determination of fair value.

The second step of the testing process, if necessary, involves calculating the fair value of the individual assets and liabilities of the reporting unit and measuring the implied fair value of the goodwill against its carrying value to determine whether an adjustment to the carrying value of goodwill is required. This process also has inherent risks and uncertainties and requires significant management judgment.

Based on the results of the tests performed, management concluded that there is no impairment of goodwill at December 31, 2013.

#### **5. Intangible Assets**

Intangible assets include acquired intangible assets with finite lives, consisting principally of non-contractual customer relationships, completed technology and trademarks. Intangible assets with finite lives are amortized on a straight-line basis over the assets' estimated useful life up to 14 years. The Company evaluates whether events or circumstances have occurred indicating the carrying amount of intangible assets may not be recoverable. When factors indicate that intangible assets should be evaluated for possible impairment, the Company uses an estimate of the associated undiscounted future cash flows compared to the related carrying amount of assets to determine if an impairment loss should be recognized. An impairment loss is recognized to the extent that the carrying amount exceeds the asset's fair value.

Amortization expense was approximately \$79,000 for each of the years ended December 31, 2013 and 2012. Aggregate amortization for the next five years is expected to be approximately \$359,000, accumulating at the rate of \$79,000 per year. The weighted average remaining life of the Company's intangible assets is approximately 4.5 years.

The following schedule details the Company's intangible asset balance by major asset class.

|                      | At December 31, 2013  |                          |                     |
|----------------------|-----------------------|--------------------------|---------------------|
|                      | Gross Carrying Amount | Accumulated Amortization | Net Carrying Amount |
|                      | (In thousands)        |                          |                     |
| Customer-related     | \$ 550                | \$ (373)                 | ) \$ 177            |
| Completed technology | 363                   | (245)                    | ) 118               |
| Trademarks           | 187                   | (123)                    | ) 64                |
| Total                | \$ 1,100              | \$ (741)                 | ) \$ 359            |

|                      | At December 31, 2012  |                          |                     |
|----------------------|-----------------------|--------------------------|---------------------|
|                      | Gross Carrying Amount | Accumulated Amortization | Net Carrying Amount |
|                      | (In thousands)        |                          |                     |
| Customer-related     | \$ 550                | \$ (333)                 | ) \$ 217            |
| Completed technology | 363                   | (219)                    | ) 144               |
| Trademarks           | 187                   | (111)                    | ) 76                |
| Total                | \$ 1,100              | \$ (663)                 | ) \$ 437            |

## **6. Related Party Transactions**

In July 2012, the maturity dates of a \$1,500,000 Subordinated Convertible Promissory Note to Clarex Limited (“Clarex”) and a \$1,000,000 Subordinated Convertible Promissory Note to an affiliate of Clarex were extended to April 1, 2015 from April 1, 2013. The remaining terms and conditions of the notes were unchanged. The notes were previously issued on April 1, 2009 and had a maturity date of April 1, 2011 which was extended to April 1, 2013. The notes bear simple interest at 6% per annum. Interest accrues yearly, is payable on maturity and unpaid interest along with principal may be converted into securities of the Company as follows: The notes are convertible in the aggregate into 1,500,000 Units and 1,000,000 Units, respectively, with each unit consisting of one share of common stock and one warrant. Each warrant allows the holder to acquire 0.75 shares of common stock at a price of \$1.35 per share and have an expiration date of April 1, 2016. Clarex is a significant shareholder of the Company.

The Company paid \$150,000 for the current interest on the notes in 2013, 2012 and 2011, respectively. During 2011, the Company also paid the accrued interest of \$645,000 and \$480,000 on the \$1,500,000 note and the \$1,000,000 note, respectively, that was outstanding as of December 31, 2010. The Company expects to continue to make quarterly interest payments of \$37,500 through the maturity dates of the notes.

## **7. Other Long Term Notes**

On July 26, 2012, the Company entered into a term loan agreement in the amount of \$750,000 with Valley National Bank, Wayne, NJ. The loan is payable in equal month installments over five years beginning in August 2012 and bears an interest rate of 4.35% annually. The loan is secured with a Note and a security interest in new equipment, which the Company placed in service in 2013. In 2012, the Company made a down-payment of \$500,000 on the equipment which is included in Other Assets in the accompanying consolidated balance sheet. The balance of the purchase price of \$325,000 was paid in 2013 when the equipment was placed in service. The full amount of the asset is included in Machinery and Equipment at December 31, 2013.

The Company also has a note payable to the U.S. Small Business Administration which bears interest at the rate of 4.0% and is due in 2032.

Other Long Term Notes consist of the following:

December 31,  
2013 2012  
(In thousands)

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|  |       |        |
|--|-------|--------|
| Term Note Payable, payable in equal monthly installments of \$13,953 and bearing an interest rate of 4.35% and expiring in July 2017                     | \$554 | \$694  |
| U.S. Small Business Administration term note payable in monthly installments of \$1,922 and bearing an interest rate of 4.0% and expiring in April 2032. | \$315 | \$325  |
|  | 869   | 1,019  |
| Less current portion   | (156) | (150 ) |
| Other Long Term Notes, excluding current portion   | \$713 | \$869  |

Other Long Term Notes mature as follows:

|   |        |
|---|--------|
| Year ending December 31: (In thousands) |        |
| 2014                                    | \$ 156 |
| 2015                                    | 164    |
| 2016                                    | 171    |
| 2017                                    | 108    |
| 2018                                    | 12     |
| Thereafter                              | 258    |
|   | \$ 869 |

**8. Accounts Payable and Accrued Liabilities**

Accounts payable and accrued expenses are comprised of the following:

|  |                |        |
|--|----------------|--------|
|  | December 31,   |        |
|  | 2013           | 2012   |
|  | (In thousands) |        |
| Trade accounts payable and accrued purchases | \$ 339         | \$ 457 |
| Accrued payroll                              | 127            | 131    |
| Accrued 401K company matching contribution   | 141            | 162    |
| Accrued Restructuring costs                  | 297            | —      |
| Accrued expenses – other                     | 64             | 64     |
|  | \$ 968         | \$ 814 |



**9. Income Taxes**

The Company's income tax provision consists of the following:

|                           | Years Ended December 31,<br>(In thousands) |        |       |
|---------------------------|--|--------|-------|
|                           | 2013                                       | 2012   | 2011  |
| Current:                  |  |        |       |
| Federal provision for AMT | \$ —                                       | \$ —   | \$ 6  |
| State provision           | —  | —      | 5     |
|                           | —  | —      | 11    |
| Deferred:                 |  |        |       |
| Federal tax provision     | —  | 408    | —     |
| State                     | —  | —      | —     |
|                           | —  | 408    | —     |
| Total                     | \$ —                                       | \$ 408 | \$ 11 |

A reconciliation of the income tax provision computed at the statutory Federal income tax rate to our effective income tax rate follows (in percent):

|                               | Years Ended<br>December 31, |         |        |
|-------------------------------|-----------------------------|---------|--------|
|                               | 2013                        | 2012    | 2011   |
| Federal statutory rate        | (34.0)%                     | (34.0)% | 34.0 % |
| State statutory rate          | (7.8 )                      | (8.0 )  | 8.0    |
| Change in Valuation Allowance | 34.2                        | 59.5    | (41.5) |
| Permanent Differences         | (0.5 )                      | 8.6     | 6.7    |
| Prior year adjustments        | 12.5                        | 13.4    | —      |
| Other                         | (4.4 )                      | 0.8     | (0.9 ) |
| Effective income tax rate     | — %                         | 40.3 %  | 6.3 %  |

At December 31, 2013, the Company had estimated Federal and State net operating loss carry forwards of approximately \$7,124,000 and \$2,463,000, respectively. These tax loss carry forwards expire at various dates through 2032.

Internal Revenue Code Section 382 places a limitation on the utilization of Federal net operating loss and other credit carry forwards when an ownership change, as defined by the tax law, occurs. Generally, this occurs when a greater than 50 percentage point change in ownership occurs. Accordingly, the actual utilization of the net operating loss and

carryforwards for tax purposes may be limited annually to a percentage (based on the risk free interest rate) of the fair market value of the Company at the time of any such ownership change. The Company has not prepared an analysis of ownership changes but does not believe that a greater than 50% change of ownership has occurred and such limitations would not apply to the Company.

Deferred tax assets (liabilities) are comprised of the following:

|                             | December 31,   |         |
|-----------------------------|----------------|---------|
|                             | 2013           | 2012    |
|                             | (In thousands) |         |
| Account receivable reserves | \$7            | \$7     |
| Inventory reserves          | 700            | 633     |
| Inventory capitalization    | 131            | 137     |
| Depreciation                | 192            | 45      |
| Loss carry forwards         | 2,590          | 2,233   |
| Gross deferred tax assets   | 3,620          | 3,055   |
| Valuation allowance         | (3,620)        | (3,055) |
| Net deferred tax asset      | \$—            | \$—     |

In evaluating the Company's ability to recover deferred tax assets in future periods, management considers the available positive and negative factors, including the Company's recent operating results, the existence of cumulative losses and near term forecasts of future taxable income that is consistent with the plans and estimates management is using to manage the underlying business. A significant piece of objective negative evidence evaluated was the cumulative loss incurred by the Company over the three-year period ended December 31, 2012. Such objective evidence limits the ability to consider other subjective evidence such as our projections for future growth.

On the basis of this evaluation, as of December 31, 2013 and 2012, the Company concluded it was more likely than not that it would not be able to realize any portion of the benefit on the deferred tax assets and the valuation allowance was increased by \$565,000 and \$603,000, respectively, to provide a full valuation against the deferred tax assets.

The Company files income tax returns in the United States, which typically provides for a three-year statute of limitations on assessments. The Company is no longer subject to federal, state or local income tax examinations by tax authorities for the years before 2010.

The guidance for accounting for uncertainties in income taxes requires that we recognize the financial statement effects of a tax position when it is more likely than not, based on the technical merits, that the position will be sustained upon examination. There were no unrecognized tax benefits that impacted our effective tax rate and accordingly, there was no material effect to our financial position, results of operations or cash flows.

Our policy is to recognize interest and penalties related to the underpayment of income taxes as a component of income tax expense. To date, there have been no interest or penalties charged to us in relation to the underpayment of income taxes.

We do not anticipate that our unrecognized tax benefits will significantly increase in the next 12 months.

## **10. Equity Compensation Program and Stock-based Compensation**

### **a. 2010 Equity Compensation Program**

The Company's 2010 Equity Compensation Program was approved by the shareholders of the Company at the Annual Meeting which was held on June 2, 2010. The Company's 2010 Equity Compensation Program provides for grants of options, stock appreciation rights and restricted stock awards to employees, officers, directors, and others who render services to the Company. The Program is comprised of four parts including: (i) the Incentive Stock Option Plan which provides for grants of "incentive stock options", (ii) the Supplemental Stock Option Plan which provides for grants of stock options that shall not be "incentive stock options", (iii) the Stock Appreciation Rights Plan which allows the

granting of stock appreciation rights and, (iv) the Restricted Stock Award Plan which provides for the granting of restrictive shares of Common Stock and restricted stock units. The plan is administered by the Compensation Committee of the Board of Directors. Under this plan, an aggregate of up to 4,000,000 shares of common stock may be granted.

b. 2000 Equity Compensation Program

The Company's 2000 Equity Compensation Program expired on June 2, 2010. All outstanding grants of options, stock appreciation rights and performance shares issued under the Program will remain outstanding and shall expire on the date determined by the terms of the original grant. The latest date of expiration for outstanding grants under the plan is March 28, 2020.

c. Stock Option Expense

The Company's results for the years ended December 31, 2013, 2012 and 2011 include stock-based compensation expense for stock option grants totaling \$133,000, \$196,000 and \$165,000, respectively. Such amounts have been included in the Consolidated Statements of Operations within cost of goods sold (\$71,000 for 2013, \$100,000 for 2012 and \$68,000 for 2011), and selling, general and administrative expenses (\$62,000 for 2013, \$96,000 for 2012 and \$97,000 for 2011).

As of December 31, 2013, 2012 and 2011, there were \$92,000, \$199,000 and \$382,000 of unrecognized compensation costs, net of estimated forfeitures, related to non-vested stock options, which are expected to be recognized over a weighted average period of approximately .7 years, 2 years and 2.3 years, respectively.

The weighted average estimated fair value of stock options granted in the three years ended December 31, 2013, 2012 and 2011 was \$0.27, \$0.43 and \$0.86, respectively. The Company uses the Black-Scholes option pricing model to calculate the grant-date fair value of an option award. The Company assumes a dividend yield of zero, as the Company has not paid dividends in the past and does not expect to in the foreseeable future. The expected volatility is based upon the historical volatility of our common stock which the Company believes results in the best estimate of the grant-date fair value of employee stock options because it reflects the market's current expectations of future volatility. The risk-free rate is based on the U.S. Treasury yield curve in effect at the time of the grant with maturity dates approximately equal to the expected life at the grant date. The expected life is based upon the period of expected benefit based on the Company's evaluation of historical and expected future employee exercise behavior.

The following range of weighted-average assumptions were used for to determine the fair value of stock option grants during the years ended December 31, 2013, 2012 and 2011:

|                         | Years Ended  |   |          |   |           |   |
|-------------------------|--------------|---|----------|---|-----------|---|
|                         | December 31, |   | 2012     |   | 2011      |   |
|                         | 2013         |   | 2012     |   | 2011      |   |
| Dividend yield          | —            | % | —        | % | —         | % |
| Volatility              | 98 – 114%    |   | 91       | % | 94 – 100  | % |
| Risk-free interest rate | 1.9 – 2.7%   |   | 1.6      | % | 2.0 - 3.4 | % |
| Expected life           | 10 years     |   | 10 years |   | 10 years  |   |

d. Stock Option Activity

A summary of the Company's outstanding stock options as of and for the years ended December 31, 2013, 2012 and 2011 is presented below:

|                                     | Options    | Weighted Average Exercise Price | Weighted Average Remaining Contractual Term (In Years) | Aggregate Intrinsic Value(a) |
|-------------------------------------|------------|---------------------------------|--|------------------------------|
| Outstanding as of January 1, 2011   | 798,476    | \$ 1.13                         |  |                              |
| Granted                             | 409,600    | .97                             |  |                              |
| Exercised                           | (20,000 )  | .95                             |  |                              |
| Forfeited/Expired                   | (108,400 ) | 1.66                            |  |                              |
| Outstanding as of December 31, 2011 | 1,079,676  | 1.02                            |  |                              |
| Granted                             | 30,000     | .50                             |  |                              |
| Exercised                           | (10,700 )  | .50                             |  |                              |
| Forfeited/Expired                   | (137,153 ) | 1.06                            |  |                              |

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|  |           |        |     |   |
|--|-----------|--------|-----|---|
| Outstanding as of December 31, 2012                | 961,823   | 1.00   |     |   |
| Granted  | 95,000    | 0.30   |     |   |
| Exercised  | —         | —      |     |   |
| Forfeited /Expired                                 | (77,802 ) | .67    |     |   |
| Outstanding as of December 31, 2013 <sup>(b)</sup> | 979,021   | \$ .96 | 5.7 | — |
| Exercisable as of December 31, 2013                | 772,113   | \$ .61 | 5.3 | — |

(a) Intrinsic value for purposes of this table represents the amount by which the fair value of the underlying stock, based on the respective market prices as of December 31, 2013 exceeds the exercise prices of the respective options. All of the options used in the calculation of the aggregate intrinsic value for outstanding options are exercisable as of December 31, 2013.

(b) Based on the Company's historical forfeiture rate, the number of options expected to vest is the same as the total outstanding at December 31, 2013.

The following table represents non-vested stock options granted, vested, and forfeited for the year ended December 31, 2013.

| Non-vested Options             | Options   | Weighted-Average Grant-Date<br>Fair Value - \$ |
|--------------------------------|-----------|--|
| Non-vested - January 1, 2013   | 298,678   | .82  |
| Granted                        | 95,000    | .27  |
| Vested                         | (158,279) | .84  |
| Forfeited                      | (28,502 ) | .86  |
| Non-vested – December 31, 2013 | 206,897   | .55  |

The total weighted average grant date fair value of options vested during the years ended December 31, 2013, 2012 and 2011, was \$132,000, \$230,000 and \$175,000, respectively.

The following table summarizes information about stock options outstanding at December 31, 2013:

| Range of Exercise Price | Options Outstanding |  |                                 | Options Exercisable |                                 |
|-------------------------|---------------------|--|---------------------------------|---------------------|---------------------------------|
|                         | Number Outstanding  | Weighted Average Remaining Contractual Life in Years | Weighted Average Exercise Price | Number Outstanding  | Weighted Average Exercise Price |
| \$0.23 - \$0.35         | 95,000              | 2.8  | \$ .30                          | 5,000               | \$ .35                          |
| \$0.50 - \$1.03         | 738,398             | 5.6  | \$ .92                          | 621,490             | \$ .92                          |
| \$1.20 - \$1.75         | 145,623             | 6.5  | \$ 1.61                         | 145,623             | \$ 1.61                         |

e. Restricted Stock Unit Awards

The Company did not grant any restricted stock unit awards in 2013 and 2012, respectively.

During 2011, the Company granted 15,000 restricted stock units under the 2010 Performance Share Program with an estimated fair value of \$14,550 based on the closing market price of the Company's stock on the grant date. These grants vest over a three year period contingent on continued employment over the vesting period.

The Company recognized related stock compensation expense of \$5,000 in Selling, General and Administrative expenses in 2013 and 2012, respectively, and \$7,000 in Selling, General and Administrative expenses in 2011, related to these and previously issued grants.

A summary of the Company's non-vested restricted stock unit awards shares is as follows:

| # of Units | Weighted Average Grant Date Fair Value |
|------------|--|
|            | \$                                     |

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|                                     |          |      |
|-------------------------------------|----------|------|
| Outstanding as of January 1, 2011   | 6,998    | 3.59 |
| Granted                             | 15,000   | .97  |
| Vested                              | (6,998 ) | 3.59 |
| Forfeited/Expired                   | —        | —    |
| Outstanding as of December 31, 2011 | 15,000   | .97  |
| Granted                             | —        | —    |
| Vested                              | (5,000 ) | .97  |
| Forfeited/Expired                   | —        | —    |
| Outstanding as of December 31, 2012 | 10,000   | .97  |
| Granted                             | —        | —    |
| Vested                              | (5,000 ) | .97  |
| Forfeited/Expired                   | —        | —    |
| Outstanding as of December 31, 2013 | 5,000    | .97  |

The total fair value of restricted stock units which vested during 2013, 2012 and 2011 was approximately \$5,000, \$5,000 and \$7,000, respectively, as of the vesting date.



**11. Net Income (Loss) per Share**

Basic income (loss) per common share is computed by dividing net income (loss) by the weighted average number of common shares outstanding. Diluted income (loss) per common share is computed by dividing net income (loss) by the weighted average number of common shares and common stock equivalents outstanding, calculated on the treasury stock method for options, stock grants and warrants using the average market prices during the period, including potential common shares issuable upon conversion of outstanding convertible notes, except if the effect on the per share amounts is anti-dilutive.

For the year ended December 31, 2013, all common stock equivalents were excluded from the computation of diluted net loss per share because their effect is anti-dilutive. This included 984,021 common stock equivalents related to outstanding options and grants. In addition, there were 2,500,000 common shares and 1,875,000 warrants issuable upon conversion of outstanding related party convertible notes which were anti-dilutive.

For the year ended December 31, 2012, all common equivalent shares outstanding have been excluded from the diluted computation because their effect is anti-dilutive. This included 971,823 common stock equivalents related to outstanding options and grants, in addition to 2,500,000 common shares and 1,875,000 warrants issuable upon conversion of outstanding related party convertible notes which were anti-dilutive.

For the year ended December 31, 2011, a total of 94,778 common share equivalents were assumed to be outstanding at the end of the year. A total of 2,500,000 anti-dilutive common shares issuable upon conversion of outstanding convertible notes and 1,875,000 warrants issuable upon conversion of outstanding related party convertible notes have been excluded from the diluted computation because their effect is anti-dilutive.

A reconciliation of the shares used in the calculation of basic and diluted earnings per common share is as follows:

|   | Years ended December 31, |                |             |
|---|--------------------------|----------------|-------------|
|   | 2013                     | 2012           | 2011        |
| Numerators  |                          |                |             |
| Net income (loss) applicable to common shareholders - basic   | \$(1,649,961 )           | \$(1,420,833 ) | \$164,746 ) |
| Interest on Convertible Debt                                  | —                        | —              | —           |
| Net income (loss) applicable to common shareholders - diluted | \$(1,649,961 )           | \$(1,420,833 ) | \$164,746 ) |
| Denominators  |                          |                |             |
| Weighted average shares outstanding-basic                     | 11,975,195               | 11,825,583     | 11,658,891  |

|   |            |            |            |
|---|------------|------------|------------|
| Stock options                                 | —          | —          | 83,843     |
| Restricted stock units                        | —          | —          | 10,935     |
| Weighted average shares outstanding – diluted | 11,975,195 | 11,825,583 | 11,753,669 |

## 12. Commitments

### a. Lease commitments

The Company occupies approximately 42,000 square feet of space located at 181 Legrand Avenue, Northvale, New Jersey pursuant to a net lease. The lease for the Northvale facility expired on October 31, 2013 and the Company is currently in negotiations for a new lease for this facility on more favorable terms. The Company continues to occupy the facility under the terms of the expired lease but on a month to month basis paying a reduced amount of rent that includes all real estate taxes, maintenance and operating costs.

The Company's wholly-owned subsidiary, MRC Precision Metal Optics Inc., (DBA Inrad Optics) has its manufacturing operations in a leased facility located in the Sarasota, Florida pursuant to a net lease that expired on August 31, 2013. The Company announced plans in 2013 to relocate this operation into the Northvale, New Jersey facility and continues to occupy the facility under the terms of the expired lease, on a month to month basis, at the same amount of rent which includes real estate taxes, maintenance and operating costs. The Company expects to vacate the facility by March 31, 2014 when the operations in Sarasota have been fully consolidated within the Northvale facility.

The total rent for these leases was approximately \$491,000, \$485,000 and \$519,000 in 2013, 2012 and 2011, respectively. The Company also paid real estate taxes and insurance premiums that totaled approximately \$168,000 in 2013, \$160,000 in 2012 and \$162,000 in 2011, respectively.

b. Retirement plans

The Company maintains a 401(k) savings plan (the “Plan”) for all eligible employees (as defined in the plan). The 401(k) plan allows employees to contribute up to 70% of their compensation on a salary reduction, pre-tax basis up to the statutory limitation. The 401(k) plan also provides that the Company, at the discretion of the Board of Directors, may match employee contributions based on a pre-determined formula.

In 2013, the Company’s 401(k) matching contribution for employees was \$142,505. This was funded by way of a cash contribution of \$71,252 in March 2014 and a contribution of 298,490 shares of the Company’s common stock, which were issued to the Plan in April 2014. In 2012, the Company’s 401(k) matching contribution for employees was \$161,845. This was funded by way of a cash contribution of \$80,922 and a contribution of 163,879 shares of the Company’s common stock. The cash contribution was issued to the Plan in March 2013 and the Company’s common shares were issued to the Plan in April 2013. In 2011, the Company matched employee contributions of \$151,775 in the form of 152,460 shares of the Company’s common stock, which were issued to the Plan in March 2012. The Company records the distribution of the common shares in the Consolidated Statement of Shareholders’ Equity as of the date of distribution to the 401(k) plan administrator.

**13. Product Sales, Foreign Sales and Sales to Major Customers**

The following table summarizes the Company’s net sales by product categories during the past three years:

| Category (In thousands)                   | Years Ended December 31, |       |           |       |           |       |
|---|--------------------------|-------|-----------|-------|-----------|-------|
|   | 2013                     |       | 2012      |       | 2011      |       |
|   | Net Sales                | %     | Net Sales | %     | Net Sales | %     |
| Optical Components                        | \$8,628                  | 76.8  | \$8,758   | 76.7  | \$11,812  | 89.6  |
| Laser Systems Devices and Instrumentation | 2,608                    | 23.2  | 2,646     | 23.3  | 1,365     | 10.4  |
| Total                                     | \$11,236                 | 100.0 | \$11,404  | 100.0 | \$13,177  | 100.0 |

The Company’s export sales, which are primarily to customers in countries within Europe, Asia and Japan, amounted to approximately 14.5%, 14.3% and 22.8% of product sales in 2013, 2012 and 2011, respectively

The Company had sales to three major customers which accounted for 9.4%, 8.2% and 7.3% of sales in 2013. One customer is a domestic manufacturer of medical laser systems. Both of the other major customers are electro-optical systems divisions of major U.S. defense industry corporations who manufacture systems for U.S. and foreign governments. In 2012, the same three customers represented 8.6%, 10.7% and 4.9% of sales, respectively. In 2011, the same three customers represented 15.4%, 4.0% and 1.6% of sales, respectively.

During the past three years, sales to the Company's top five customers represented approximately 37.7%, 43.1% and 58.1% of sales, respectively. Given the concentration of sales within a small number of customers, the loss of any of these customers would have a significant negative impact on the Company and its business units.

**14. Shareholders' Equity**

a. Common shares reserved at December 31, 2013, are as follows:

|   |           |
|---|-----------|
| 2010 Equity compensation plan                                     | 4,000,000 |
| 2000 Equity compensation plan                                     | 474,923   |
| Subordinated convertible notes                                    | 2,500,000 |
| Warrants issuable on conversion of Subordinated convertible notes | 1,875,000 |
|   | 8,849,923 |

b. Warrants

The Company had no outstanding warrants as of December 31, 2013 and 2012.

**15. Fair Value of Financial Instruments**

The methods and assumptions used to estimate the fair value of the following classes of financial instruments were:

Current Assets and Current Liabilities: The carrying amount of cash, certificates of deposits, current receivables and payables and certain other short-term financial instruments approximate their fair value as of December 31, 2013 due to their short-term maturities.

Long-Term Debt: The fair value of the Company's long-term debt, including the current portion, for notes payable and subordinated convertible debentures, was estimated using a discounted cash flow analysis, based on the Company's assumed incremental borrowing rates for similar types of borrowing arrangements. The carrying amount of debt at December 31, 2013 in the amount of \$3,369,000 approximates fair value.

#### 16. Restructuring Costs

In November 2013, the Company announced plans to move the operations of its Sarasota, FL metal optics facility to its Northvale, NJ optical production center and corporate headquarters. The consolidation is part of a larger strategic effort to improve the Company's value proposition to its customers as well as improve its financial results. The physical integration of all development and production in one location is intended to enhance operating efficiencies and reduce overhead costs. The move will centralize the Company's optical problem solving skills, allowing for beneficial cross-pollination of expertise, including leveraging the Florida metal optics facility's single point diamond turning capability over a broader range of optical materials.

The decision also reflects the continued uncertainty in US defense funding. Much of the Company's metal optics business serves US government installations and defense prime contractors. The Company has seen a falloff in bookings from these two customer groups in 2013.

The Company expects to incur one-time cash charges of approximately \$750,000 to \$900,000, primarily associated with employee termination and relocation, moving of equipment, preparation of the Northvale facility and other general costs associated with consolidation. Overall annual reductions in operational costs are expected to be in the range of \$800,000 to \$1,000,000 per year starting in the second quarter of 2014. The Company expects operations in Sarasota will be fully transferred by approximately March 31, 2014 and all restructuring payments are expected to be made by the end of 2014.

The following table summarizes restructuring information by type of cost:

| (In Thousands)                              | Termination<br>and<br>Relocation | Northvale<br>Facility<br>Expenditures | Moving and<br>Other Costs | Total  |
|---|----------------------------------|---------------------------------------|---------------------------|--------|
| Restructuring costs expected to be incurred | \$ 227                           | \$ 342                                | \$ 181                    | \$ 750 |
| Accrued balance December 31, 2012           | \$ —                             | \$ —                                  | \$ —                      | \$—    |
| Provisions                                  | 227                              | —                                     | 86                        | 313    |
| Cash expenditures                           | —                                | —                                     | (16)                      | (16)   |

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Accrued balance December 31, 2013           \$ 227           \$ —           \$ 70           \$297

Accrued restructuring costs of \$297,000 are included in Accounts Payable and Accrued Liabilities in the Company's Consolidated Balance Sheets at December 31, 2013.

17. Workforce Reduction

In the first quarter of 2013, the Company instituted a plan to reduce its combined headcount by approximately 11%, in order to reduce costs and align its workforce with current business requirements while ensuring the Company would continue to meet its customers' needs. The reductions affected both the Company's Northvale, NJ and the Sarasota, FL operations. Annualized savings from the reductions are expected to be approximately \$700,000. Severance and other separation costs of \$141,000 were expensed in the first and second quarters of 2013 and offset payroll savings of approximately \$220,000. Accrued severance payments of \$141,000 were made in 2013.

18. Quarterly Data (Unaudited)

Summary quarterly results were as follows:

| Year 2013                    | First       | Second      | Third       | Fourth      |
|------------------------------|-------------|-------------|-------------|-------------|
| Net sales                    | \$3,077,126 | \$2,694,598 | \$2,756,488 | \$2,707,442 |
| Gross profit                 | 699,098     | 307,732     | 549,959     | 118,572     |
| Net loss                     | (169,354 )  | (647,764 )  | (238,793 )  | (549,050 )  |
| Net loss per share - Basic   | (0.01 )     | (0.06 )     | (0.02 )     | (0.05 )     |
| Net loss per share – Diluted | (0.01 )     | (0.06 )     | (0.02 )     | (0.05 )     |

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| Year 2012                             | First       | Second      | Third       | Fourth      |
|---------------------------------------|-------------|-------------|-------------|-------------|
| Net sales                             | \$2,840,681 | \$2,880,448 | \$2,903,740 | \$2,778,958 |
| Gross profit                          | 739,956     | 567,834     | 616,247     | 566,612     |
| Net income (loss)                     | (148,959 )  | (333,083 )  | (279,589 )  | (659,202 )  |
| Net income (loss) per share - Basic   | (0.01 )     | (0.03 )     | (0.02 )     | (0.06 )     |
| Net income (loss) per share - Diluted | (0.01 )     | (0.03 )     | (0.02 )     | (0.06 )     |

| Year 2011                             | First       | Second      | Third       | Fourth      |
|---------------------------------------|-------------|-------------|-------------|-------------|
| Net sales                             | \$3,241,434 | \$3,221,234 | \$3,328,761 | \$3,385,765 |
| Gross profit                          | 872,537     | 784,060     | 907,905     | 997,817     |
| Net income (loss)                     | 34,729      | (95,750 )   | 83,731      | 142,036     |
| Net income (loss) per share - Basic   | 0.00        | (0.01 )     | 0.01        | 0.01        |
| Net income (loss) per share - Diluted | 0.00        | (0.01 )     | 0.01        | 0.01        |

**Schedule II –Valuation and Qualifying Accounts**

INRAD OPTICS, INC.

## SCHEDULE II VALUATION AND QUALIFYING ACCOUNTS

|   | Balance at<br>Beginning<br>of Period | Charged<br>(Credited)<br>to Expenses | Additions<br>(Deductions)<br>to Other<br>Accounts | Deductions | Balance<br>at End of<br>Period |
|---|--------------------------------------|--------------------------------------|---|------------|--------------------------------|
| Allowance for Doubtful Accounts             |                                      |                                      |   |            |                                |
| Year ended December 31, 2013                | \$ 15,000                            | 1,000                                | —   | 1,000      | \$ 15,000                      |
| Year ended December 31, 2012                | \$ 15,000                            | —                                    | —   | —          | \$ 15,000                      |
| Year ended December 31, 2011                | \$ 15,000                            | —                                    | —   | —          | \$ 15,000                      |
| Valuation Allowance for Deferred Tax Assets |                                      |                                      |   |            |                                |
| Year ended December 31, 2013                | \$ 3,055,000                         | —                                    | 565,000   | —          | \$ 3,620,000                   |
| Year ended December 31, 2012                | \$ 2,452,000                         | 408,000                              | 195,000   | —          | \$ 3,055,000                   |
| Year ended December 31, 2011                | \$ 2,379,000                         | —                                    | 73,000  | —          | \$ 2,452,000                   |