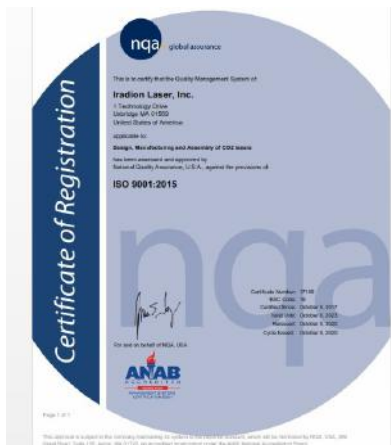


## Iradiation Rapid Response Service Program Receives High Marks



**Iradiation Laser's ISO 9001:2015 Certification**

**Iradiation Laser Inc., Uxbridge, MA.** Iradiation's QC and Service Department has been receiving high marks from its North America customers as well as accounts throughout the world due to the great success of the company's **Rapid Response Service Program**.

The program insures that laser problems are recorded and responded to within 24 hours by sending an email to [customerservice@iradiation.com](mailto:customerservice@iradiation.com). It also supports the company's commitment to ISO 9001: 2015 Certification.

**Iradiation's Patented Ceramic Core CO<sub>2</sub> Laser Design** reduces many of the issues of traditional glass or metal tube CO<sub>2</sub> lasers. The laser gas is hermetically sealed within an inert ceramic core and isolated from metal contamination. Also, with **30% fewer components**, the design is more reliable, and therefore, less to go wrong!

The **Rapid Response Service Program** is initiated if a problem cannot be fixed via email or phone support: **1) RMA#** is issued to return the laser. **2) If under warranty**, a **ETN (Equivalent To New)** replacement unit is shipped immediately. **3) If out of warranty**, the laser is repaired to ETN condition at a reasonable price and with a new warranty for fast shipment.....**continued on page 2**

### Inside this issue:

<b>Rapid Response Service Program</b>	<b>1-2</b>
<b>Vytek's Impressive Laser Experience</b>	<b>1-3</b>
<b>A Message from Our CEO/President</b>	<b>2</b>
<b>Ceramic Core CO<sub>2</sub> Laser Technology</b>	<b>4</b>

## Vytek Serves Industries For Over 30 Years



**Vytek Utilizes Iradiation Infinity and 1625 Lasers in their New CO<sub>2</sub> Work Stations.**

**Vytek Laser Systems, Fitchburg, MA.** Since 1989, the company has been developing and advancing a wide range of laser-based technologies from their 'state-of-the-art' engineering and manufacturing facilities. It has been manufacturing laser cutting, engraving, and marking equipment with 'easy to use' software for a wide variety of markets and applications. With its extensive laser and applications experience, **Vytek Laser Systems** has been the choice for companies and industries worldwide.

Finally, **Vytek Laser Systems** are designed, built and supported in the **USA**. Let's take a closer look at their impressive portfolio of laser products. **Continued on page 3**

### Special points of interest:

- Philippe Brak, CEO and President
- Iradiation Laser Models
- Vytek's New Machine
- Iradiation QC & Service Manager, Ed Revell

**SPIE. PHOTONICS WEST**

January 27-29, 2022  
San Francisco, CA

**Visit Iradiation Booth #4743**

## “Message From The CEO/President”... Philippe Brak



As **CEO and President of Iradion**, and on behalf of our Iradion team, I want to express my sincere gratitude to our new and existing customers for helping Iradion achieve record sales and shipments in 2021. A special thanks to our employees for their exceptional dedication, teamwork, and performance that has supported our incredible growth. Finally, we greatly appreciate our suppliers and support personnel who provide the highest quality materials and services.

Sales volume and shipments have continued to increase beyond previous years as the features/benefits of **Ceramic Core CO<sub>2</sub> Laser Technology** are recognized by more laser machine builders and integrators. Iradion has increased its labor force and renewed contracts with suppliers to meet this growth and adhere to our customer's delivery needs.

As more technological applications for CO<sub>2</sub> lasers are developed, Iradion has responded to this need. **Robot companies** are an example. By using the compact **Iradion Infinity lasers with Laser Mechanisms beam delivery optics**, they can integrate the laser and optics directly onto their robots. The result is a cost effective, space saving, CO<sub>2</sub> laser robot cell. **Currently, an Iradion integrator is installing over 50 of these systems in a major electric vehicle company.**

Iradion looks forward to supporting your existing product lines as well as any new machine concepts with our ceramic core CO<sub>2</sub> laser technology.

## **Iradion Rapid Response Service Program...continued from page 1**

The results speak volumes to the success of program: **95% of lasers are shipped within 4 days.** Iradion is proud to have one of the most responsive Service Departments in the laser industry

Finally, **Iradion's Rapid Response Service Program** includes protection unheard of in the CO<sub>2</sub> laser market: **in the event of laser gas degradation, a free refill of your Iradion laser will be provided for up to 7 years from the date of shipment.**

**Iradion's QC and Service Department** development as a “**Best in Class**” customer support service is due in part to the excellent leadership and dedication of **Ed Revell, Iradion QC/Service Manager**. With over 18 years of international business experience in providing strategic and technical expertise in highly complex manufacturing organizations including ITW-EAE, Associated Environmental Systems and Iradion, he has successfully transferred production lines and delivered new customer service programs in Asia, Europe and North America.



“Iradion's success, growth and innovation are because the company recruits and hires exceptional candidates. Iradion has created a multi-cultural organization and a dedicated, professional team that strives to provide the highest quality products and services to our customers.” states Ed.

In closing, the **Iradion QC and Service Department** has implemented many laser industry distinctions: 1) Rapid Response Service Program, 2) a guarantee that the laser gas doesn't degrade, 3) customized final test procedures per customer specifications, and 4) customer maintenance training programs. Iradion looks forward to becoming your CO<sub>2</sub> laser supplier and earning your valued long term business.

Contact Iradion Laser for more info:

**401-762-5100**

**sales@iradion.com**

## Vytek Serves Industries For Over 30 Years...continued from page 1



The new **CO2Cab** Series offers fully integrated 2 and 3-axis CO<sub>2</sub> galvo solutions unlike any other system on the market. The versatile **CO2Cab** can cut, mark and engrave most organic materials and many inorganic materials. **Vytek** Laser Systems evaluated and selected **Iradian's Patented Ceramic Core CO<sub>2</sub> Lasers** with their exclusive features/benefits for use on applications requiring 30 to 250 watt CO<sub>2</sub> lasers. For applications requiring higher powers, **Vytek** Laser Systems uses sealed CO<sub>2</sub> lasers up to 1000 watts. The **CO2Cab** options include Class 1 or Class 4 enclosures, load/unload fixtures, robotic automation, rotary tables and more. The **CO2Cab** is compact, affordable, and easy to set up. It is available as a standalone unit or can be integrated into production lines.

In addition to the CO<sub>2</sub> lasers, the company has also excelled in the application of fiber lasers. **Vytek** Laser Systems offers standard and customized solutions that range from a **30 watt Compact Marking System** to an **8000 Watt large format FiberCab Cutting System**.

Unlike the Compact Series which can sit on a bench-top, the FiberCab systems range in size from 2' x 2' to 5' x 12' with manual or automatic sliding tables. Both systems come with a host of automation options for your production needs. All **Vytek** Laser System machines utilize robust, cutting-edge controls ensuring precision laser power and feed control as well as pulse profiles.



Finally, **Vytek** Laser Systems provides superior customer support by offering the following important services:

1. An application lab that can test and provide samples for your project.
2. Training services to optimize the use of your new machine.
3. Service support programs to protect your investment.

With over 30 years of laser experience, **Vytek** Laser Systems machines are found in a wide range of applications and production environments as well as large and small companies. It understands how to solve unique customer challenges quickly and successfully.

Check out [www.vytek.com](http://www.vytek.com) and view **their extensive video library of different cutting applications**.

And if you attend **FABTECH 2021 Chicago**, visit **Vytek's Booth #A5306**.

Contact Vytek for more information:

978-342-9800

[sales@vytek.com](mailto:sales@vytek.com)



Iradion's 34,000 sq ft facility is a 'state of the art' operation.

**Iradion Laser Inc., Uxbridge, MA.** The exclusive benefits of Ceramic Core CO<sub>2</sub> technology are proven:

- 1) typical rise /fall times: 30 usec to 75 µsec
- 2) excellent beam quality:  $M^2 < 1.2$
- 3) typical power stability: 1 watt to max power
- 4) laser gas sealed in core: no gas refills needed

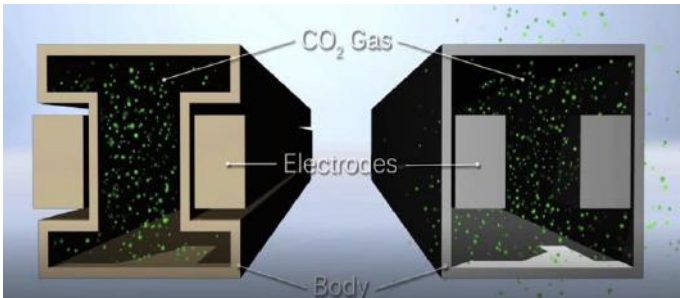


**Iradion's Patented Ceramic Core CO<sub>2</sub> Lasers offer superior performance and reliability.**

Iradion's CO<sub>2</sub> Lasers are produced in the factory's production clean room. The CO<sub>2</sub> laser gas mixture is hermetically sealed in the ceramic chamber and the metal RF electrodes sandwich the chamber externally.

In comparison, older technology lasers enclose the CO<sub>2</sub> laser gas mixture with the electrodes in a glass or metal chamber using rubber seals or welding seams. As a result, it's generally accepted that laser gas replacement will be required every 3 to 5 years.

Iradion eliminates gas contamination and/or leakage insuring the longest laser gas life in the industry. Also,



**On left, Iradion seals CO<sub>2</sub> laser gas in a ceramic core with electrodes on the outside. On right, traditional lasers place CO<sub>2</sub> laser gas and electrodes in metal or glass chamber prone to gas contamination and seal leakage.**

the ceramic chamber's low coefficient of expansion provides improved power stability.

Moreover, this innovative architecture requires fewer components reducing the laser size and weight. The design equates to production cost savings resulting in the most competitive CO<sub>2</sub> lasers pricing in the industry. Iradion offers power levels from 30 to 250 watts with 10.6, 10.2 and 9.3 wavelengths to optimize the pro-



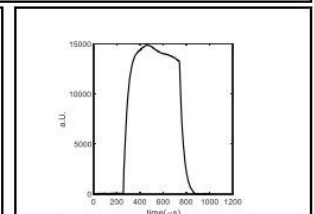
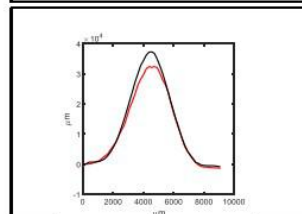
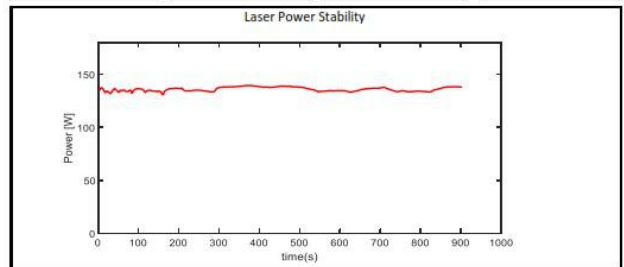
**Iradion Laser Product Lines: Eternity (30-40 watts), Infinity (50-120 watts) and 1620/1625 (200-250 watts).**

cessing of a wide range of materials and operations. Prior to shipment, Iradion conducts extensive analysis of each laser. See a Final Test Report example showing model, s/n #, max/min power, rise/fall times, power stability, pulsing, beam quality and other metrics.

### IRADION

LASER FINAL TEST DATA SHEET			
Model #	1510W	Date:	13-May-20
Serial #	47DC024C6687	Technician	MMC - 1

LASER FINAL TEST MEASUREMENTS			
Measurement	Measured	Specification	Units
Power Minimum	130.60		W
Power Maximum	139.50		W
Power Average	135.83	>110	W
Power Stability	3.30	+/-6	%
Rise Time Warm	64.55	<75	us
Fall Time Warm	67.61	<75	us
Rise Time Cold	60.11	<75	us
Fall Time Cold	68.81	<75	us



**Contact Iradion for more information:**

**Telephone Number: 401-762-5100**

**Email: sales@iradion.com**