#### **Software Requirements**

- You can download the required programs at: http://software.ipgphotonics.com/
- Click the Welder folder and download and install the following programs:
  - ScanPack from the ScanPack folder
  - IPGWeld from the IPGWeld folder
  - Scan Controller Upgrade Utility from the Utilities folder
  - → Optional: Stage Configuration Utility (for welding set ups with an external motion system or rotary axis)

## **Installing a Configuration File**

Before you start running the scanner using IPGWeld, run the Scan Controller Upgrade Utility to select a correct configuration file for your laser:

- 1. Click the "Lock" icon for the selected scanner (Figure 1).
- 2. Click Install Configuration Files.
- 3. In the Open window, go to:

#### C:\ProgramData\IPGP\ScanPack\Default\Lasers\

- 4. Select the folder for your laser from the list and click **Open** (Figure 2).
- 5. Select the LaserSpecifications file and click **Open** (Figure 3).
- 6. Once the configuration file is transferred, click **Exit** to the close the Scan Controller Upgrade Utility.



Figure 1

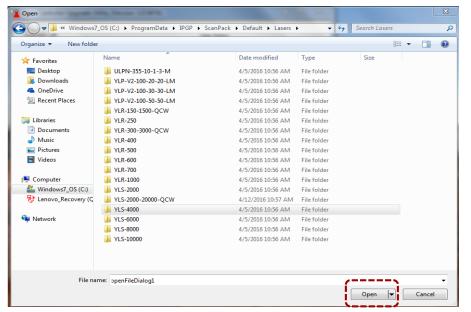
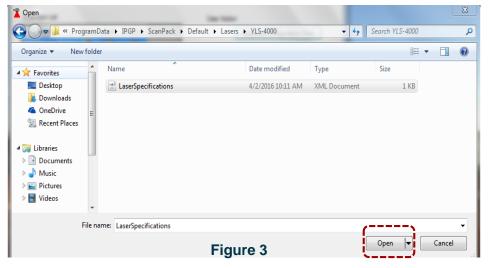


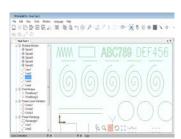
Figure 2



# High-Power 2D Scanner Quick Start







IPG High Power Scanner Head

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IPGWeld Software

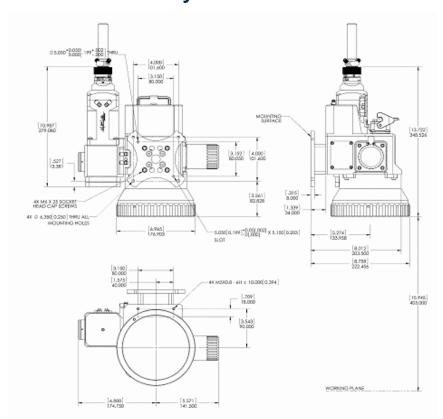
#### **Setup Requirements**

- Two power supplies for the scanner:
  - ☐ 24 V/10 A for the galvos
  - ☐ 24 V/1 A for housekeeping
- Water cooling for the scanner head:
  - □ DI water, temperature 25-30 C
  - ☐ Flow rate minimum 0.75 l/min
- Air knife is recommended to protect the cover slide window from contamination.
  - Recommended air flow for a 9-inch air knife: 30 scfh / 100 psi (hose ID minimum: ½ in)

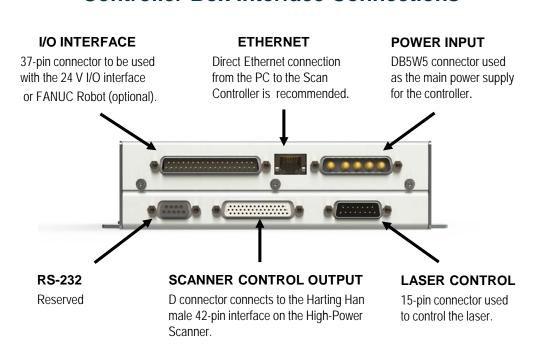


Part Number: P21-010235 Rev. A DCO:1469

## **Mechanical Layout: Scanner Head**



#### **Controller Box Interface Connections**



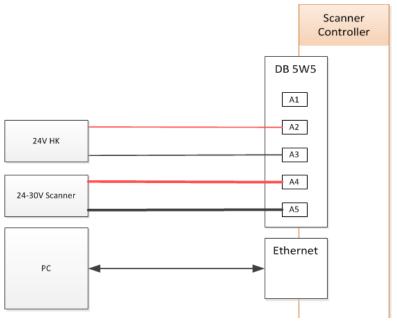
## **Power Supply Connector**



Pin	Function	Description
A1	Not Used	
A2	+V Laser HK	House Keeping Power 24V
A3	Return	Return For HK
A4	+V Scanner	Isolated Scanner Power
A5	-V Scanner	(+V)-(-V) = 24V  to  30V

System	Voltage	Current
Laser HK	24V +/- 5%	< 1A
Scanner	24-30V +/- 5%	10A Peak - 2A Average

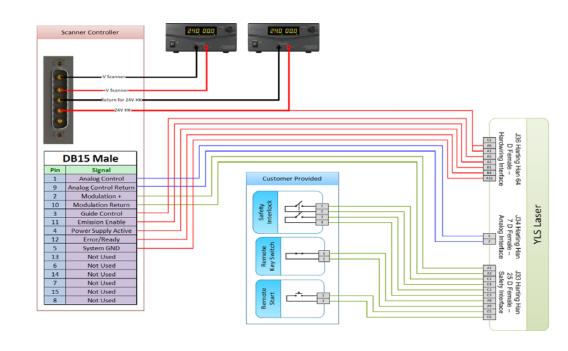
### **Power Supply Configuration**



**Notes:** - Power supply must have excellent transient response.

- Power supply return must not be connected to earth ground

## Wiring a YLS-Series Laser



#### Wiring a YLR-Series Laser

