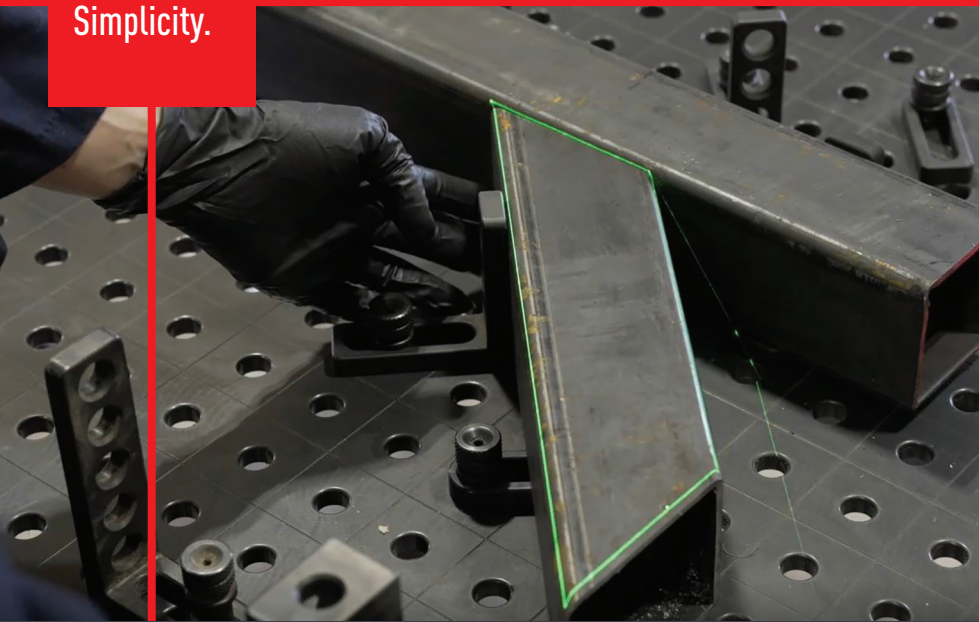


VIRTEK IRIS^{3D}

FOR WELDED ASSEMBLY

Engineering
Simplicity.



Virtek Iris™ 3D simplifies fitting and accelerates the assembly process by eliminating manual measurement, marking and templates.

Virtek's Iris 3D for Welded Assembly applications combines laser projection with 3D vision technology to locate a part in 3D space instantaneously. Light up each step in an assembly with laser accurate lines projected directly onto the part surface.

Iris 3D functionality offers NEW advanced features: CAD Visualization and Pick n Project (PnP).

Iris 3D works directly from CAD. The interface is simple and intuitive that anyone on the shop floor can use. Operators require little or no training to start producing parts faster and with a higher accuracy.

Complex Welded Assemblies Made Easy

Produce More Faster

- No need to create files in advance, simply pick your work piece and project the laser template at the weld table!

Easy to Use

- Visualize your final project before you even begin assembly.
- Assemble complex 3D parts as easily as simple parts.
- Little to no training required.

Higher Quality

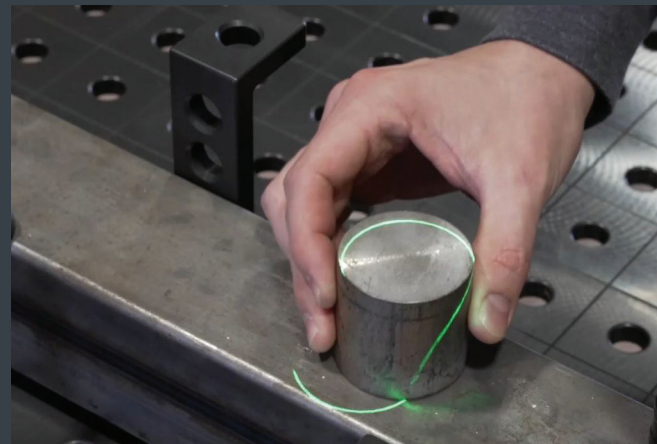
- Remove operator error, and replace manual measurements, templates and training with automated laser-guided assembly.



VISUALIZATION



PICK N PROJECT



Open CAD & start your project – no authoring required!



Markets

Ideal for Job Shops and OEMs that serve the following industries:

- Agriculture
- Heavy Fabrication
- Mining Equipment
- Rolling Stock

Applications

- 3D-Welded Stud & Bracket Placement
- Component & Final Assembly
- Fabrication
- Table Layout
- Welded-Assembly

High Visibility Laser

Provides operators with a brighter, safer laser delivering superior visibility even in the brightest work environments.

Features

Benefits

FlashAlign™

Instant alignment of the part or tool virtually eliminating set up time.

Auto Focus & High Visibility

Auto-Focus fiber connected laser source with optional long range optics. Operators will receive the best laser line quality and superior visibility even in the brightest work environments.

Simplified Software Interface

Reduced training & fewer operator errors, simplified operation and administration.

Projected Cross Hair

Automatically project crosshairs to indicate drill locations, punch locations, assembly positions. Crosshairs work on both flat and curved surfaces.

Field Replaceable Components

Flexibility of onsite repair of multiple components within the system such as laser, and cooling fan helping to reduce cost of ownership.

Focus of Attention

Reduces projection flicker on-demand by limiting the projection to just the area of interest for increased visibility.

WEIGHS
20
LBS.
(9kg)



* Tablet Compatible

Technical

Accuracy

0.008"/0.20 mm (RMS) or +/-0.015"/0.38 mm (Max Error) at a distance of 15'/4.6 m within an area 15' X 15'/4.6 X 4.6 m

0.016"/0.41 mm (RMS) or +/-0.030"/0.76 mm (Max Error) at a distance of 30'/9.1 m within an area 30' X 30'/9.1 X 9.1 m

Laser-line width	0.5mm FWHM @ 13.1' (4m)
Projection Distance	Standard Range: 6' - 20' / 2m - 6m Extended Range**: 6' - 40' / 2m - 12m Long Range: 6'-60' / 2m - 18m
Field of View (FOV)	Options available: 60°, 70° or 80°
Laser Class VPS1/LPS-10	International: Class 2 or Class 3R meeting the IEC/EN60825-1:2014 standard
VPS1 Power Requirements	115-230VAC or 50/60 Hz
Physical	Length: 18" (460mm) Width: 8.5" (220mm) Height: 6.25" (160mm) Weight: 20lbs (9kg)
Environment	IP54 available ** Operating Temperature: 0°C to 45°C, 32° to 113°F Non-Operating Temperature: -20°C to 65°C, -4°F to 149°F Humidity: <80% non-condensing
Customer Support	Receive Free Phone/Email Support for the lifetimes of your product. <small>*Optional additional years for warranty can be purchased separately. Plus flexible Service Agreements available at any time.</small>

** Available with Laser Projection (LPS10) Models only

VIRTEK

AMETEK

virtekvision.com

Unsurpassed Customer Support



Virtek's highly-skilled and experienced service technicians install and calibrate each system and train users on-site. Customer support centers ensure you achieve maximum productivity of your Virtek laser and camera technology.

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