

A GERBER
TECHNOLOGY
COMPANY

VIRTEK

Engineered
Simplicity.

IRIS™ SPS

Targetless Projection

LASER TECHNOLOGY ENABLES TARGETLESS PAINT MASKING, FINAL ASSEMBLY AND DIGITIZING FOR PROJECTION.

- Iris SPS uses the geometric features (datums) of the part to locate it in 3D space
- Engineers specify the features/datums which most accurately define the part location. These are, in turn, measured to locate the part
- With the part located, projection follows a pre-defined set of process steps displaying text and shapes directly on the work surface



ABOUT IRIS SPS

The Iris™ Spatial Positioning System (SPS) works without targets, locating parts in 3D space by referencing the geometric features associated with the part – advanced technology designed for the aerospace industry.



Iris SPS guides workers through the paint masking process.

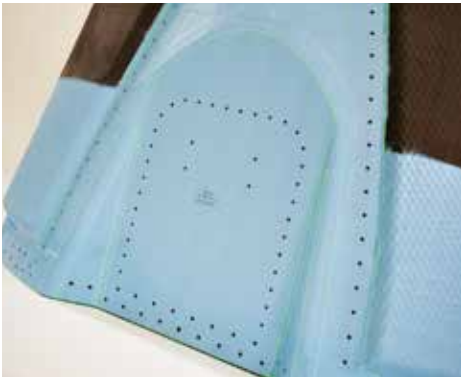
Get an Advantage Over Your Competition

- Using part geometry to determine part location provides the best possible accuracy, eliminating errors and variability associated with targets
- Iris SPS makes it possible to use laser projection where it was previously impractical or impossible because targets are no longer needed
- Now, it's easier than ever to create projections from 3D CAD models

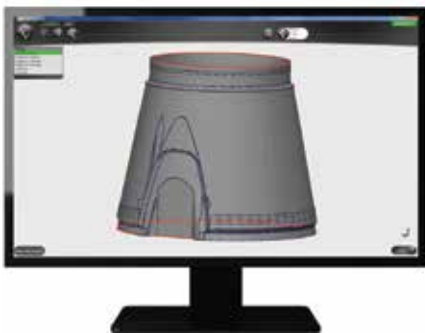




Fast, easy digitizing using a probe to capture points on the part



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The operator interface is easy to learn, streamlines work and reduces operator error

Virtek Vision International Inc.
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Advanced Software, User-Friendly Interface

- The Iris system is sophisticated and remarkably intuitive. The minimalist operator interface speeds training and streamlines work, reducing operator error
- One click provides immediate access to all needed information
- Visual cues and tool tips clearly guide operator through necessary actions
- Projected text guides the operator through workflow
- With a fully-integrated remote and probe, there's never a need to return to the workstation

Additional Benefits

- Iris SPS makes it possible to project in even the most complex configurations, for example, when parts are very large or must be moved during assembly
- Once Iris has locked onto part datums, any movement of the Iris system or the work piece will immediately trigger a re-alignment of the system
- On large vehicles or assemblies, a set of localized datums may be defined independently for each layer, ensuring the best accuracy

Specifications

SPATIAL LOCATOR

Length	1210 mm (48 in.)
Diameter	100 mm (4 in.)
Weight	6.5 kg (14 lbs.)
Range	<6 m (20ft.)
Resolution	0.125 mm (0.005 in.)
Power	115-240 VAC 50/60 Hz
Field of View (FOV)	70 degrees

LPS 7 LASER PROJECTOR

Length	622 mm (24.5 in.)
Height	330 mm (13 in.)
Depth	175 mm (7 in.)
Range	<12 m (39 ft.)
Projection Angle	60 degrees
Accuracy	0.38 mm @ 5.1m (0.015in @ 17ft) over an area of 5.1m X 5.1m
Power	115-240 VAC 50/60 Hz

IRIS SOFTWARE AND USER INTERFACE

Controller	64 bit compatible
OS	Windows 7
Interface	Keyboard, remote and probe
Interaction	Controlled, guided processes

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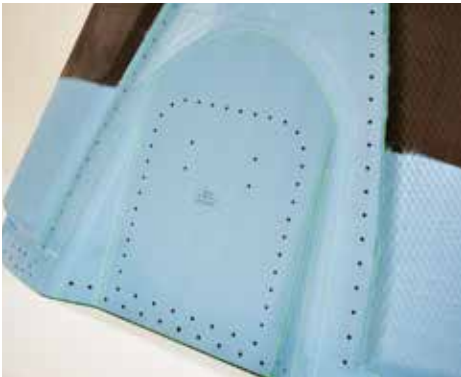
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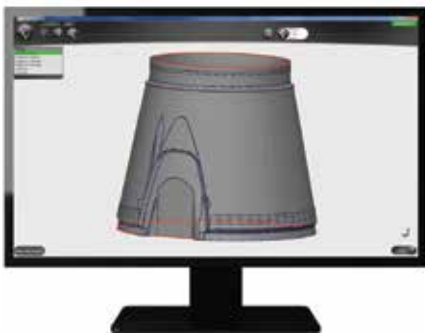




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