

Engineered
Simplicity.

LASEREDGE®

The Global Leader in Composite Process Solutions

VIRTEK LASEREDGE SOFTWARE IS AN EASY-TO-USE, THREE-DIMENSIONAL LASER TEMPLATING AND POSITIONING SYSTEM. IT ACCURATELY PROJECTS A VIRTUAL LASER TEMPLATE ONTO MOLDS AND PARTS TO GUIDE OPERATORS THROUGH THE PROCESS OF PART FABRICATION WHETHER IT BE PLY LAYUP, PAINT MASKING, HARNESS ASSEMBLY OR COMPONENT LOCATION.

- Eliminates the need for physical templates improving accuracy and throughput
- Reduces costly rejects
- Saves set-up time

Assemble Multiple Parts Simultaneously.

LaserEdge Multi-Task enables one projector to serve multiple workstations so ply layup on multiple parts can occur in parallel.

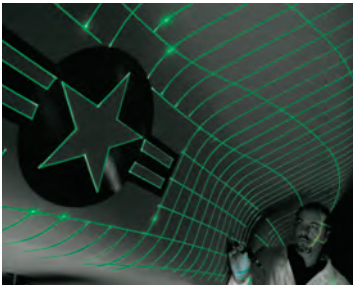
Integrate External Devices.

The system's Application Programming Interface (API) uses a standard Windows Communication Foundation (WCF) web service that enables integration of external devices or automation equipment such as:

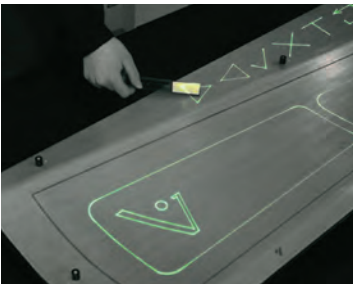
- Computer-controlled cutting systems
- Automated tape laying technology
- Barcode readers
- Manufacturing execution solutions

Ensure Accuracy.

- Powerful algorithms ensure precise alignment
- Include text and/or multimedia instructions to guide operators through the process
- System ensures operators adhere to a specified manufacturing process, following proper steps and fabricating parts in the correct order
- Ensure operator accountability using traceability features
- Provides critical quality-control checks



Virtek LaserEdge guides workers through the paint masking process.



To maximize productivity, the system's software is run by icons projected onto the work surface.

Virtek Vision International Inc.
785 Bridge Street,
Waterloo, Ontario N2V 2K1
Toll free (in North America):
1.800.684.7835
Tel: (+1) 519.746.7190
Fax: (+1) 519.746.3383
Email: sales@virtek.ca
www.virtek.ca

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Available Configurations.

- Ethernet or parallel communication interface
- Short- or long-range projection
- 60° or 80° fields of view
- Manual or autofocus



Patented field replaceable laser module enables users to replace spent laser modules in as little as five minutes.



With Virtek LaserEdge laser-guided templating, ply layup is extremely accurate.

www.virtek.ca



Increase Throughput.

- Optimized communication algorithms significantly improve focus speed when using multiple projectors in a networked environment
- By eliminating the use of physical templates and eliminating non-value-added work such as reconfiguring or re-tooling workcells, productivity of the layup process improves by as much as 50 percent.
- Operator performs tasks using icons projected directly onto the work surface eliminating the need to go back and forth between the tool and a computer workstation; also eliminates the need for expensive remote controls

Position Accuracy

Short range: ± 0.015" (0.38mm) or better at a distance of 17' over 17' x 17' (5.1m x 5.1m) area

Long range: ± 0.015" (0.38mm) or better at a distance of 17' over 17' x 17' (5.1m x 5.1m) area;
± 0.030" (0.76mm) or better at a distance of 30' over 30' x 30' (9.1m x 9.1m) area

Field of View (FOV) 60° or 80°, depending on model

Laser Source 5mW maximum power 0.9mw "safe mode"

Laser Laser green (532nm)

Laser Class North America: Class 3R per 21CFR 1040 (CDRH) Laser Notice 50
International: Class 3R meeting the IEC/EN60825-1:2007 standard for CE certification

Power Requirements 115-230VAC or 50/60 Hz

Physical Length: 21.5" (54.61cm) Width: 11.5" (29.21cm)
Height: 6.95" (17.65cm) Weight: 35 lbs (16 kg)

Customer Support One year standard warranty on projector

Environmental Operating Temperature 0°C to +45°C
Non-Operating Temperature -20°C to +65°C
Humidity 80% non-condensing

Accessories and Options Hand-held remote controller
One swivel support bracket per laser head
Virtek's repairable retro-reflective targets
Projector stands
Barcode reader
Certification fixture (recommended)
Extended support contracts

Unsurpassed Customer Support.

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

