Virtek LPS-7H Laser Projector

Productivity tools for aerospace templating

Together with Virtek LaserEdge™ software, the LPS-7H produces higher quality projection patterns enabling users to work more effectively with less eye strain.

Patented field replaceable laser module ensures maximum system uptime. The projector is designed so users can replace spent laser modules in as little as five minutes. This maximizes system uptime and eliminates the need to dismantle and ship the projector off-site for laser replacement. Once replaced, simply perform an automatic calibration and you're back in production.

Experience unsurpassed thermal stability. A centralized cooling channel with a sealed, durable enclosure enables LPS-7H projectors to operate in the toughest work environments with less down-time.

<table>
<thead>
<tr>
<th>Features:</th>
<th>Benefits:</th>
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<tbody>
<tr>
<td>Patented field replaceable green laser module</td>
<td>Delivers 99.9% projector uptime; eliminates the need to dismantle and ship the projector off site for laser replacement</td>
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<td>Projection speeds up to two times faster than previous generations</td>
<td>Higher refresh rate reduces flicker</td>
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<td>MIL spec power supply with corrected power factor.</td>
<td>Increased projector reliability</td>
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<td>Patented through-the-lens calibration</td>
<td>Improved target scanning and calibration accuracy</td>
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<td>Green laser source</td>
<td>5 times greater visibility compared to red laser</td>
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<td>Durable design with sealed housing</td>
<td>Withstands harsh environments</td>
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<tr>
<td>Optimized thermal management</td>
<td>System runs cooler to maximize projector life</td>
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<tr>
<td>On-board diagnostic indicators</td>
<td>Simplify troubleshooting</td>
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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

Position Accuracy

<table>
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<th>Range</th>
<th>Accuracy</th>
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<tr>
<td>Short range</td>
<td>± 0.015” (0.38mm) or better at a distance of 17” over 17” x 17” (5.1m x 5.1m) area</td>
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<tr>
<td>Long range</td>
<td>± 0.015” (0.38mm) or better at a distance of 17” over 17” x 17” (5.1m x 5.1m) area;</td>
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<tr>
<td></td>
<td>± 0.030” (0.76mm) or better at a distance of 30’ over 30’ x 30’ (9.1m x 9.1m) area</td>
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Field of View (FOV)

- 60° or 80°, depending on model

Laser Source

- 5mW maximum power 0.9mw “safe mode”

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

Customer Support

Virtek’s highly-skilled and experienced service technicians install and calibrate each LPS-7H projector and train users on site. Customer support centers ensure you achieve maximum productivity of your laser projector.