

2015HC Projector



An ultra-high contrast projector designed to meet the demands of both military and commercial training.

The Rockwell Collins 2015HC projector, designed to meet the demands of both commercial and military training, is particularly well suited for mission rehearsal using night vision enhancement devices.

The 2015HC combines the essential attributes of performance, reliability and maintainability to deliver an inherently stable and highly flexible projector for simulation and training applications.

The 2015HC offers unprecedented contrast, dynamic range and black levels, which are essential for full-capability simulation training. It is capable of achieving a sequential contrast ratio of 1,000,000:1 without the use of an iris and offers full brightness light points simultaneously with night features that

can only be seen with night vision goggles. Rockwell Collins patented RGBK four-panel projection engine architecture ensures that the sequential contrast is far higher than any other Liquid Crystal on Silicon (LCoS) or DMD projector. The panels used are the latest generation LCoS devices.

Other features include all-electronic edge blending (EEB), highly accurate color processing, grayscale tracking, automatic corrections and diagnostics, and motion blur reduction.

A range of optical configurations is available to satisfy all levels of certification, up to the most demanding FAA Level D requirements.

KEY BENEFITS

- › Suitable for civil and military flight simulation applications
- › Extreme dynamic range, comparable to CRT black levels
- › Superior light point performance
- › High bit depth

- › Specifically developed for ease of use and maintenance in the simulation environment
- › LCoS fixed matrix technology ensures image stability
- › Rockwell Collins' auto alignment system reduces setup time and maximizes system availability

KEY FEATURES

- › QXGA resolution 2048 x 1536 pixels
- › 1,000 lumens
- › 1,000,000:1 contrast
- › Night vision compatible
- › Motion compatible

**Rockwell
Collins**

Building trust every day

PERFORMANCE

- 2015HC displays 2048 x 1536 pixels (QXGA), LCoS panels, 0.82" diagonal, 4:3 aspect ratio, Rockwell Collins' patented 4-panel RGBK optics technology
- Brightness 1,000 lumens ±20%, ANSI uniformity 80%
- Sequential contrast ratio of 1,000,000:1 (continuously available without use of iris)
- ANSI contrast 150:1
- Night Vision Goggles compatible (NRb contrast >50,000:1 typ)
- Latency: 17 ms maximum
- Motion blur reduction
- Distortion correction
- Lenses available
 - 0.8 to 1.1 zoom
 - 0.9 to 1.3 zoom
 - 1.2 to 1.7 zoom
 - 1.65 to 2.50 zoom
 - 1.35 to 2.05 flat field
 - 0.9 to 1.2 barrel
 - 1.35 to 1.75 barrel



ENVIRONMENTAL

- Dimensions 400 mm (w) x 450 mm (h) x 400 mm (d), excluding lens
- Weight 30 kg (66 lb) excluding lens
- Temperature
 - Operating +15°C to +30°C
 - Storage -20°C to +40°C
- Motion compatible
- Lamp life 2000 hours average to 1/2 brightness
- Dual-redundant lamp for maximum system reliability (landscape version). Light source: landscape 2 x 300 W UHP lamps, singular operation, dual redundancy; portrait: 1 x 300 W.
- Portrait and landscape options
- Qualified in FAA Level D simulator systems

INTERFACES

- Video input: dual link DVI 8-bit standard; twin inputs available; 10- and 12-bit options available
- Power 600 W, input voltage 115/230 V auto ranging

SYSTEM INTEGRATION FEATURES

- Compatible with Rockwell Collins auto alignment system
- Electronic edge blending, seamless blending between channels, no need to reconfigure for day, night, or NVG modes
- Wide range of lenses to suit application
- Full control of all projectors with Cobra GUI software. Each projector has embedded Cobra control software built-in.
- Color space re-mapping (patented), color uniformity/shading, scan conversion
- Precise distortion correction through tri-linear image re-mapping
- Enhanced Gamma correction, adjustable by the user

SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE..

Building trust every day.

Rockwell Collins delivers smart communication and aviation electronic solutions to customers worldwide. Backed by a global network of service and support, we stand committed to putting technology and practical innovation to work for you whenever and wherever you need us. In this way, working together, we build trust. Every day.

For more information, contact:

Rockwell Collins
400 Collins Road NE
Cedar Rapids, Iowa 52498
+1.800.321.2223
+1.319.295.5100
fax: +1.319.378.1172
email: learnmore@rockwellcollins.com
www.rockwellcollins.com

**Rockwell
Collins**

Building trust every day