

# ROCKWELL COLLINS PROVIEW™ XL35 & XL50

Head Mounted Displays



## HEAD MOUNTED DISPLAYS

The Rockwell Collins ProView™ XL35 and Rockwell Collins ProView™ XL50 both feature full-color XGA performance with a choice of field of view.

The ProView™ HMDs incorporate our proprietary technology to achieve unparalleled color performance and high contrast ratio. The true 1024 x 768 resolution and wide color gamut really set the XL line apart from other display systems.

The optical modules are mounted on the same ergonomically designed headband system used on all ProView™ HMDs.

**Rockwell  
Collins**

## PERFORMANCE PARAMETERS

### DISPLAY

Type	Full color, solid state, XGA resolution (1024H x 768V)
Resolution/eye	XL35 – 1.6 arcmin/color group XL50 – 2.3 arcmin/color group
Brightness	5-50 fL [adjustable]
Contrast	50:1

### OPTICAL

Field of view	XL35 – 35° diagonal, 21° [V] x 28° [H] XL50 – 50° diagonal, 30° [V] x 40° [H]
Transmission	Non see-through
Optics	Color-corrected, aspheric refractive lens – independent optical paths for each eye
Eye relief	Eyeglasses compatible
Exit pupil	Non pupil forming
Overlap	100%

### MECHANICAL

IPD	Independent left/right, accessible on each display module
IPD range	55 – 75 mm
HMD weight	35 ounces
Headtracker	Accommodates magnetic and inertial tracker sensors

## CONTROL UNIT

Video format	[1 or 2] XGA 1024 x 768, non-interlaced
Sync formats	Sync on video, Composite sync or Separate H/V sync [auto-sense]
Vertical rate	60Hz
Cable length	12 feet
Video outputs	L/R XGA video outputs for repeater monitor[s]
Controls	Audio adjust
Remote controls	Power on/off/contrast and brightness
Indicators (LED)	Valid video input
Connectors	[2] XGA, 15 pin DB, female [video in]  [2] XGA, 15 pin DB, female [video out for monitor]  BNC barrel connectors, RGB H&V, [video in] 2 sets
Power	120 VAC, 60 Hz or 240 VAC, 50 Hz, 25W

### *For more information contact:*

**Rockwell Collins**  
2752 Loker Ave. West  
Carlsbad, CA 92010  
760.438.9255  
Fax: 760.438.6875

E-mail: [optronics@rockwellcollins.com](mailto:optronics@rockwellcollins.com)

Web site: [www.rockwellcollins.com/optronics](http://www.rockwellcollins.com/optronics)

**ISO 9001:2000**

Registered

m38672 © 2003 Rockwell Collins  
10/03/05

**Rockwell  
Collins**