

# SimEye™ SX50T II Augmented Training Display



SimEye SX50T II augmented training display – real-time, heads-up data for improved situational awareness.

Rockwell Collins SimEye SX50T II is the second generation of see-through flight simulation displays.

#### KEY APPLICATIONS

- › Flight simulation and training (fixed- and rotary-wing)
- › Augmented reality

#### KEY FEATURES

- › Standard video interface: DVI-I: Digital Video and VESA Analog
- › USB or RS-232 control interface
- › Low image distortion; no electronic warping required
- › Remote controller operation from the HMD
- › Double-data rate: 120 Hz output frame rate optimizes LCD response time
- › Low latency
- › 19" rack-mounted controller

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#### OPTICAL

Field of view	40° (H) x 32° (V)
Aspect ratio	5:4
Overlap	100%
Transmission	50%

#### DISPLAY

Image source	AMLCD, polycrystalline silicon
Resolution	SXGA: 1280 (H) x 1024 (V) pixels
Color	Monochrome, green
Brightness	>30 fL (103 Cd/m <sup>2</sup> )
Contrast	100:1 @ <1 fL ambient 3:1 @ 30 fL ambient
Eye relief	25 mm (eyewear compatible)
Exit pupil	15 mm

#### HMD

IPD range	56-75 mm
IPD adjustment	Independent left/right
Weight	<2.6 lbs (without helmet and cable)
Electrical interface (HMD to controller)	Plug- Push-Pull, self-latching
Mechanical adjustments	IPD, fore-aft, vertical, tilt
Helmet mounting	Standard mount, ANVIS-9 (Aviator Night Vision Goggles)

#### CONTROLLER

Dimensions	19" 1U, rack-mounted
Power interface	IEC60320
Electrical interface (Controller to HMD)	Push-Pull, self-latching
Video input interface	Analog or digital: DVI-I (2X)

#### SYSTEM INTERFACE

Power	85 to 250 VAC; 50/60 Hz
Video	Dual channel, SXGA at 60 Hz DVI-I connector: Analog and digital video
Controls	USB and RS 232 supported

**Certified to AS9100 - Certificate #FM533434**

**SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE**

#### SYSTEM

HMD system tilt adj
HMD system tilt fixed
Controller
Helmets

#### ROCKWELL COLLINS FOCAL DISTANCE PART NUMBER

987-0202-112	30 inches
987-0202-113	45 inches
987-0202-114	53 inches
987-0202-115	60 inches
987-0202-122	30 inches
987-0202-123	45 inches
987-0202-124	53 inches
987-0202-125	60 inches
987-0202-400	Universal
202-1194-5	Medium (M)
202-1194-1	Large (L)
202-1194-3	Extra Large (XL)

#### OPTIONAL FEATURES

- ▶ Headtracker

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