

XG-PH50X

XGA Native Resolution System Integration / Large Venue Projector

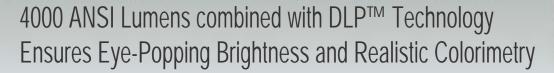
Projector • Projector • Projector • Projector • Projector • Projector •



- 4000 ANSI Lumens
- 1000:1 contrast Ratio
- DLP™ Technology with Sealed Optics
- Intelligent Dual Lamp System
- Power H&V Lens Shift
- Six Lens Options
- Built-in RJ-45 LAN Connectivity

High Brightness Installation/Integration Projector Offers Superior Features, Performance And Reliability For Most Any Application – Including Conference Facilities, Lecture Halls, Rental, Staging, House of Worship And NOC Command and Control

Information Systems Group



BHARP ---Conference Service

High-Brightness Picture

4000 ANSI Lumens Brightness with Unique "Intelligent" Dual Lamp System

With Sharp's advanced DLP™ Optical Engine, matched with dual 250W high-brightness lamps, the XG-PH50X achieves 4000 ANSI Lumens, with excellent contrast and uniformity, delivering bright, clear images in large highly-lit rooms.

4-Mode Single/Dual Lamp Switchover

With Sharp's Intelligent Dual Lamp System, you can choose the lamp arrangement to suit your needs. When both lamps are utilized, the XG-PH50X delivers 4000 ANSI Lumens in standard mode and 3000 ANSI Lumens in low-power "eco" mode. When only a single lamp is used, the projector provides 2000 ANSI Lumens

in standard mode, and 1500 ANSI Lumens in "eco" mode. In single-lamp mode, the projector can be set up to alternate between lamps (with the projector automatically switches from one lamp to the other after approximately 100 hours). This helps maintain even brightness, and minimize bulb purchases. Sharp's Dual Lamp System further provides "redundant reliability" - an important consideration in mission critical applications. In the event one lamp should fail, the second lamp ensures continued

Cutting-Edge DLP™ Technology

DLP™ System*

The XG-PH50X employs a DLP™ display device system which outshines the alternatives because, being mirror-based, they use light more efficiently. While other technologies lose a certain amount of light in transit, the microscopic mirrors in this system bring more light from lamp to screen. The hundreds of thousands of mirrors in the DLPTM Digital Micromirror Device (DMD™) are spaced less than one micron apart, resulting in a very high "fill factor". By minimizing the gaps between pixels in a projected image, DLP™ projections systems create a "seamless" digital picture that's sharp at any size without pixelation or "screen door" effect.



 * Digital Light Processing, DLP™ and DLP™ medallion are trademarks of Texas Instruments

Long-life High-Performance DMD™ Panel

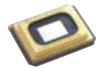
DMD™ silicon chip formation with finely structured mirrors provides stable performance and delivers high-quality pictures for longer periods. The DMD™ chip and color wheel in the XG-PH50X achieves a lifetime of up to 20,000 hours*. Also, because there is no burn-in or remaining after-image, the projectors are ideal for still picture projection such as guidance board applications and projecting CAD images.

*The lifespan is measured at the surrounding temperature of 25°C. This is a reference value and is not guaranteed.

DDR DLP™ with Sealed Optics

The XG-PH50X utilizes the latest DDR (Double Data Rate) DLP™ technology - incorporating a 4-segment, 3-speed color wheel with sealed optics. This provides higher contrast (1000:1), with superior color accuracy and dependability. The sealed optics minimize dust, dirt and smoke from entering the system. This ensures maximum reliability (with minimal maintenance) - even during extended use.

The DLP™ Advantage



Consider these DLP™ Advantages of the XG-PH50X

- Superior Reliability Estimated DMD™
 Life of approximately 20,000 hours with no image degradation
- 1000:1 Contrast Ratio For sharper, more detailed images with higher black levels
- Faster Pixel Switching For full-motion reproduction without blur, smear or ghosting
- "Seamless" images Without annoying pixelization or "screen door" effect
- Smoother Video Performance With vivid, more accurate colors
- No Convergence Adjustments One panel design means no fuzzy, misaligned images
- Quieter Operation 35 dB in standard mode;
 33 dB in "eco" mode

Flexible Lens System

Power Zoom, Focus and H&V Lens Shift!

In addition to power zoom and focus, the XG-PH50X offers powered H&V (horizontal and vertical) lens shift. This allows exceptionally flexible projector placement, while minimizing keystone distortion.

Six Interchangeable Lenses

For use in almost any size venue, a total of six optional lenses are available. This enables continuous throw ratios from 1.5 to 7.0. Five of the lenses are motorized; the sixth is a 0.8 fixed focus. [Note, the projector may be purchased either with a standard 1:1.2x power zoom lens attached ("XG-PH50X"), or without lens ("XG-PH50X-NL").]

Lens Shift Control Vertical Shift 10:0 (50%) 5:5 (0%) 6.5:3.5 (15%) 3.5:6.5 (15%)

Superior Compatibility

Sharp's industry-leading CV-IC technology and ImageACE resizing ensure compatibility with an exceptionally wide range of input sources and signal configurations.

- fH 15-126 kHz / fV 43-200 Hz
- Pixel Clock: 12-230 MHz
- · Workstation Compatible: SUN, SGI, IBM, HP
- HDTV/DTV Compatible: 1080I, 1035I, 720P, 576I/P, 540P, 480I/P
- UXGA (1600x1200), SXGA (1280x1024), and Mac 21" (1280x1024)
- Compatible with Advanced Intelligent Compression ImageACE Resizing
- True XGA (1024x768), SVGA, VGA and Mac (19"/16"/13") Compatible
- Sync on Green / Composite Sync (TTL) Signal Compatible
- HDCP Digital Signal Compatible (DVI input)



High-Quality Picture Reproduction with Detailed Graphics and Natural Video Images

CV-IC (Computer & Video Integrated Composer) II System Technology

Color Management System

The level of color shade, chroma and tone can be set for each of six colors (red, yellow, green, cyan, blue, magenta), making possible more subtle adjustment of color.



Example: The red tones in the picture can be enhanced

sRGB Compatibility

sRGB Compatibility, the color reproductivity standard defined by the International Color Consortium, provides faithful reproduction of the original pictures in color hue, tone and gradation on a computer display.

Enhanced Three-Two Pull Down

Detecting the video source (DVD software) recorded in 24 frame/sec. format, the XG-PH50X can beautifully reproduce natural high-quality pictures without blur by converting into 60 frame/sec. progressive images.

Noise Reduction

Noise Reduction circuits perform high-level noise analysis, reducing picture blur, and providing clear pictures comfortable on the eyes.

Pattern Matching Motion Detective PMD-IP Conversion

With conventional Motion Detective IP conversion, horizontally slanted lines and edges become a dotted or jagged line when moved. With Pattern Matching Motion Detective PMD-IP Conversion, correlated pattern matching that was impossible with pixel conversion is measured by sampling the pattern information with a length of visual data. The resulting new pattern produces smoother lines and edges, providing higher quality pictures.



Detective PMD-IP Conversion

Resizing

The built-in video scaler automatically detects input signal characteristics and adjusts the picture for the highest quality image.

Picture-in-Picture

The XG-PH50X can add video images onto a data screen image, resulting in more interesting and effective presentations.



Network Connectivity

LAN Connection

terminal enabling remote access and centralized control and monitoring over the LAN.

Remote Access and Management

Built-in web browser control* enables remote access and management of the projector without the need for special software. In addition it can be programmed to send e-mail notification to up to five user designated addresses if a problem is detected. Notification includes lamp failure, overheating or cooling fan failure.

*Compatible with Internet Explorer 5.0 or higher



Control System Compatibility

The XG-PH50X incorporates an RJ-45 LAN connection The XG-PH50X provides superior compatibility with industry standard control systems from vendors such as Crestron, AMX, Extron® and Bitlogix™. A separate RS-232C input allows for local control in conjunction with remote access via the LAN.







Multiple Projector Management

A management PC with Sharp Display Manager* software installed can control multiple projectors individually. In addition, "group" settings are possible for groups formed from these projectors. These settings enable each group to be controlled independently.

*Sharp Display Manager software can be downloaded at no charge from the following websites:

Sharp USA website:

www.SharpLCD.com

Sharp "Global" website: www.Sharp-World/projector/

Presentation Convenience

New Digital Keystone Correction

Conventional systems have difficulty adjusting a slanted screen horizontally and vertically without jagged lines. The XG-PH50X easily compensates for pictures projected on angles both horizontally and vertically by only spotting four points on the screen. Even when projecting

on an angle is needed, preparation and adjustment are quick and easy, allowing you to start presentations smoothly and without hassle.







Exceptionally Quiet Operation

The new intelligent multiple-fan control system eliminates annoying sound during presentations and meetings.

Projection type	Fan noise
Standard mode	35 dB
Eco mode	33 dB

Wireless (or Wired) Remote with Mouse Control

The remote may be used either wireless or "wired." And, with its built-in mouse control, presentations can be controlled directly from the remote.



Full Range of Inputs and Outputs

The XG-PH50X is equipped with an exceptionally wide range of PC, video, and audio input and output connectors (including HDCP-compatible DVI terminals), to ensure easy use, and maximum flexibility.

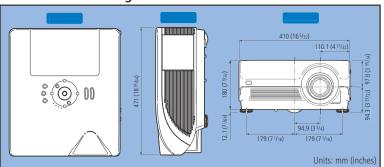
Presentation Support Tools

(Break Timer, Enlarge, Freeze, Black Screen)

Other Key Features

- Service Menu with Test Patterns accessible from user menu, and password protected
- Lamp Access from Top of Projector. Ensures easy lamp change even when ceiling mounted
- Easy to Stack, or use in Video Wall application
- High-Speed Auto Response Adjust ("ARA")
- Sharp Original Pull-Down Menu GUI (Graphical User
- Highest Quality Video Circuits (including 3D Y/C Separation, Digital Comb Filter, Noise Reduction, Color Transient and Y Delay, Color Temperature Adjustment,
- Custom Startup "Watermark" Image Capture
- Key Lock and System Lock Functions

Dimensional Drawings



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Terminals



Lens Options

	Zoom Ratio	Focal Length	F-stop	Throw Ratio
AN-PH10EX	Wide Angle Fixed	11.6mm	2.5	0.8 : 1
AN-PH20EZ	1.2x Wide Angle	21.2 - 25.8mm	2.5	1.5 - 1.8:1
AN-PH30EZ*	1.2x Zoom Lens	25.6 - 31.3mm	1.8 - 2.0	1.8 - 2.2:1
AN-PH40EZ	1.3x Zoom Lens	31.9 - 42.5mm	2.4 - 2.5	2.25 - 3.0:1
AN-PH50EZ	1.5x Middle Throw	40.8 - 62.8mm	2.5	3.0 - 4.5:1
AN-PH60EZ	1.57x Long Throw	62.1 - 97.8mm	2.4 - 2.5	4.5 - 7.0:1
*The XG-PH50X includes the AN-PH30EZ lens.				

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Model:	XG-PH50X (with AN-PH30EZ lens); XG-PH50X-NL (without lens)		
Display Technology	Single 0.7" DDR DLP™ 12° with Air Bearing 3x Speed, 4 Segment Color Wheel		
Pixel Resolution	XGA (1024 x 768) Native up through UXGA (1600 x 1200) with ImageACE Resizing		
Video Resolution	520 TV lines (composite video input), 750 TV lines (DTV 720P input, stretch)		
Brightness (Dual Lamp Operation)*	4000 ANSI Lumens (Standard Mode) / 3000 ANSI Lumens (Economy Mode)		
Brightness (Single Lamp Operation)*	2000 ANSI Lumens (Standard Mode) / 1500 ANSI Lumens (Economy Mode)		
Contrast Ratio	1000:1		
Projection Image Size and Distance	40" to 300" (40": 4.9' - 5.9'; 100": 12.1' - 14.8'; 300": 36.1' - 44.0')		
Lens (included with XG-PH50X)	1:1.2 Power Zoom and Focus, F1.8-2.0, f=25.6-31.3 mm		
Projection Lamp (wattage / part #s)	250W x 2 (Lamp 1: AN-PH50LP1 or AN-PH50LP1/1; Lamp 2: AN-PH50LP2 or AN-PH50LP2/1)		
Est. Lamp Life	Up to 2000 Hours (standard mode) / Up to 3000 Hours (economy mode)*		
Optional Lenses	Choice of Six Lens (including standard lens) with continuous throw ratios from 1.5 to 7.0 and 0.8:1 Wide Angle lens		
Power Lens Shift	Power Lens Shift - both Vertical and Horizontal		
Lens Shift Range	Vertical + / - 50%; Horizontal + / -15% **		
Data and Video Compatibility	RGB input signals: UXGA, SXGA+, SXGA, Mac 21" (in advanced intelligent compression), XGA, SVGA, VGA, VESA, Mac 19"/16"/13". 15-126 kHz (H), 43-		
	300 Hz (V), 12-230 MHz (pixel clock) (plug & play VESA; DDC 1/2B). Video systems: NTSC/NTSC 4.43/PAL/PAL(60Hz)/PAL-M/PAL-N/SECAM DTV/HDTV		
	(480I/P, 540P, 576I/P, 720P, 1035I, 1080I)		
Input Terminals	Analog RGB/Component x 2 (15-pin mini D-sub x1, 5-BNC x1), digital RGB/component (24-pin DVI-D/HDCP) x1, audio L/R x 2 (3.5mm stereo mini jack),		
	video x1 (RCA), S-Video x1, audio L/R stereo x1 (RCA), LAN x1 (RJ-45, 10BASE-T/100BASE-TX), RS-232C serial port x1 (9-pin D-sub), wired remote		
	control x1 (3.5mm mini jack)		
Output Terminals	Analog RGB/component loop-through x1 (15-pin mini D-sub), audio L/R x1 (3.5mm stereo mini jack. Audio line-out is selectable variable or fixed. [There		
	is no "loop-out" of DVI input signals.]		
Built-in Audio	3 Watts x 2 (Stereo); 4.5cm (1.8") Speakers x 2		
Fan Noise (standard / eco mode)	35 dB / 33 dB		
Wireless/Wired Remote (w/mouse control)	Yes		
Power Source	100-240V AC, 50/60Hz (multi-voltage)		
Power Consumption	630W (standard mode), 505W (eco mode), 0.75W (standby without using LAN/monitor out with 100V AC); 600W (standard mode), 485W (eco mode),		
	1.25W (standby without using LAN/monitor out with 240V AC);		
Heat Dissipation	2,370 BTU/hour (standard mode), 1,900 BTU/hour (eco mode) with 100V AC; 2,260 BTU/hour (standard mode), 1,825 BTU/hour (eco mode) with 240V AC		
Weight	32.7 lbs. (with standard lens); 30.0 lbs. (without lens)		
Dimensions (W x H x D)	16.2" x 7.1" x 18.5" (main body only) / 16.2" x 7.6" x 18.5" (including protruding parts)		
Included Accessories	Wireless Remote; Two "AA" batteries; 12' Power Cord; 9' 10" RGB Cable; 5' 3" Remote Mouse Receiver; Lens Cap; Projector Manual and Technical		
	Reference CD-ROM, Operation Manual.		
Optional Accessories	AN-PHCM20: Ceiling Mounting Bracket; AN-EP101B Extension Tube; AN-JT200: Angle Mount Joint; AN-CMCSS16: 16" Security Cable System;		
	AN-CMCSS46: 46" Security Cable System; AN-P300SC: Shipping Case; AN-C3BN: 5-BNC to 15-pin D-sub cable (10'); AN-C10RS: RS-232C Control Cable		
	(10'); AN-C3DV DVI cable (10'); AN-C3CP2: Component Video (3-RCA) to 15-pin D-sub cable (10')		
Limited Warranty	3 Years Parts and Labor including 3 Years "ER" 24-Hour Turnaround Express Repair (90 day warranty on user-replaceable projection lamps).		

^{*} Lamp life may vary depending on usage conditions. ** Lens shift range varies based on specific lens model being used.



Design and specifications subject to change without notice.

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