Sharp A824U
Professional Advanced LCD Laser Installation Projector

Datasheet

Precision, Clarity, Enduring Performance

Delivering consistent, reliable performance with vivid colour and clarity, the Sharp A Series is engineered for fixed installations that require dependable image quality and low maintenance.

With precise white point calibration and an extended colour space, the A Series uses 12-bit colour signal processing to achieve rich saturation and deep contrast, perfect for detailed visual content in education, public displays, and simulation environments. Its super-silent operation makes it well suited to acoustically sensitive spaces such as lecture halls, museums, and contol rooms.

The sealed optical engine, rated IP5X against dust ingress, maintains stable image quality and sustained brightness over time. The filter-less LCD design combined with a laser light source removes the need for lamp replacements, minimising service costs and enabling up to 20,000 hours of operation.

Installation is streamlined with Sharp's ProAssist software, enabling remote setup and adjustment even when the projector is inaccessible. Wide lens shift, along with advanced features such as HDBaseT-out, blending, and stacking capabilities, ensures flexible integration in complex environments.

Benefits

No lamp replacement – up to 20,000 h maintenance free operation possible due to Laser Light

Source.

No filter service required – a completely sealed optical laser LCD engine allows a filter-free design. Brilliant colour brightness is maintained and servicing costs need no longer feature in your budget.

Super Silent operation – patented sealed light engine incorporating innovative fan design not only protects against dust ingress but dramatically reduces noise.

Impress with vivid colour & contrast – brilliant white and wide colour space with high dynamic contrast supporting HDR10 standard via HDMI interface.

Incredible visualisation capabilities – impressive free tilt and portrait installation capability, unique geometric adjustment, tiling and camera based blending.

Product Information

Product Name	Sharp A824U
Product Group	Professional Advanced LCD Laser Installation Projector
Order Code	60006245 (B), 60006243 (W)

Image

Projection Technology	3LCD Technology			
Native Resolution	1920 x 1200 (WUXGA)			
Aspect Ratio	16:10			
Contrast Ratio	3000000:1			
Brightness	7500 Lumen (approx. 80% in Eco Mode), with std. optional lense; compliant with ISO21118-2012			
Brightness (Boost Mode)	8200 Lumen			
Lamp	Laser Light Source			
Light Source Life [hrs]	20000 [1]			
Lens	5 motorized lens options			
Lense Adjustment	Motorized			
Lens shift	H:±20, V:+10,-50			
Keystone correction	+/- 40° manual horizontal / +/- 40° manual vertical			
Projection Factor	depending on lens selection (std. option XP-41ZL at 1.3-3.02:1)			
Projection Distance [m]	0.7 – 50.9			
Screen Size (diagonal) [cm] / [inch]	Maximum: 1,270 / 500"; Minimum: 101.6 / 40"			
Zoom	Motorized and manual (depending on lens)			
Focus Adjustment	Motorized and manual (depending on lens)			
Supported Resolutions	1080i/50/60; 1080p/24/25/30/50/60; 1920x1200 (WUXGA) - 640x480 (VGA);	2560 x 1600 (WQXGA); 2560p/1080; 3840 x 2160 (4KUHD/60);	4096 x 2160 (4k/60); 480i/60; 480p/60; 576i/50;	576p/50; 720p/50; 720p/60
Frequency	Digital Frequency: Horizontal: 15/24 - 153 kHz; Vertical: 24-120 Hz			

Connectivity

Digital	Input: 1 x HDBaseT; 2 x HDMI™ supporting HDCP 2.2 Output: 1 x HDBaseT supporting HDCP 2.2
Audio	Input: 1 x HDBaseT audio support; 2 x HDMI audio support Output: 1 x 3.5 mm Stereo Mini Jack (variable)

Control	Input: 1 x 3.5 mm Stereo Mini Jack (Wired Remote); 1 x D-Sub 9 pin (RS-232), Ethernet
LAN	1 x RJ45
USB	1 x Type A (USB 2.0 high speed)
3D Sync	Output: 1 x Mini DIN 3pin

Remote Control

Remote Control	Audio Control; Digital Zoom; Geometric Correction; ID Select; ID set; Power (On-OFF); Select (up, down, left, right); Shutter function; Source Select; Test Picture; Zoom/Focus and Lens Shift Control

Electrical

Power Supply	100-240 V AC; 50 - 60 Hz
Power Consumption [W]	615 (Normal) / 560 (Eco) / 0.8 (Network Stand-by) / 0.28 (Stand-by)

Mechanical

Dimensions (W x H x D) [mm]	599 x 208 x 490 (without lens and feet)
Weight [kg]	24.1
Fan Noise [dB (A)]	28 / 34 (Eco / Normal)
Colour Versions	Black; White

Environmental Conditions

Operating Temperature [°C]	0 to 40
Operating Humidity [%]	20 to 80 non-condensing
Storage Temperature [°C]	-10 to 50
Storage Humidity [%]	20 to 80 non-condensing

Ergonomics

Safety and Ergonomics	CE; EAC; ErP; RoHS; TUEV Type Approved

Additional Features

Special Characteristics	3D ready; 4K/60Hz interfaces; AMX Beacon; Built-in Display/Multiscreen Splitter; Cinema Quality Picture (CQP) Processing for best image quality; Crestron RoomView; DICOM simulation; Digital 3D Reform™; Direct Power-Off Function; Edge Blending Function; Free Tilt; Geometric Correction; HDBaseT; HDBaseT-out signal connection; HDR10 Support; High Altitude Mode; Hollywood Quality Video Processing for best image quality; HTTP Browser Control; IP5X/IP6X rated; Keystone Correction (H=±40°, V=±40°); LAN control; Lens Memory; Lens Shift (vertical +0.5 max/-0.1 max, horizontal ± 0.3 max.); Light Source Adjustment; Manual Wall Color Correction; Multi-Screen compensation mode; NaViSet Administrator 2; Optional User Logo; OSD with 27 languages; Password Security System; PIP/Side by Side, HDMI - Input; PJ LINK; Portrait Setting; Rec2020 to Rec709 colour conversion; RS-232 Control; Seamless Switching; Stacking Function; Test Pattern; Timer-Function; UHD player support; Up to 20,000 hrs Light Source Life

Green Features

Energy Efficiency	ECO scheduler; Intelligent power management; Less than 0.3W stand-by power; Longer light source life; Software scheduling; Timer function
Ecological Materials	100% recyclable packaging; Downloadable manuals
Ecological Standards	ErP compliant

Warranty

Projectors	3 years pan-European service
Light Source	3 years or 10000h (whatever comes first)

Shipping Content

Shipping Contents	IR Remote Control (RD-480E); Power Cord; Projector; Quick Setup Guide

Optional Accessories

Optional Accessories	5 optional bayonet lenses; Cable Cover (XP-13CV-W, XP-13CV-B); Universal Ceiling Mounts (PJ02UCMPF)
Lenses - motorized	XP-40ZL/NP40ZL (0.79-1.11:1); XP-41ZL/NP41ZL (1.3-3.02:1); XP-43ZL/NP43ZL (2.99-5.93:1); XP-44ML-A/NP44ML-PA4 (0.32:1); XP-50ZL/NP50ZL (0.6-0.75:1)

[1] 50% of initial brightness at the end of specified laser life time at 25 degree ambient temperature.

* This product has been equipped with a laser module and is classified as Class1 of IEC60825-1 Ed3 2014 and is classified as RG3 of IEC62471-5 Ed1 2015.
DO NOT LOOK DIRECTLY INTO THE BEAM.

RoHS   TUEV Type Approved   ErP   CE