

Professional Advanced LCD Laser Installation Projector

# Sharp A824U



## 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 control 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.

# Specifications

## 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<sup>1</sup>

### 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;	2560 x 1600 (WQXGA);	480i/60;
1080p/24/25/30/ 50/60;	2560p/1080;	480p/60;
1920x1200 (WUXGA) - 640x480 (VGA);	3840 x 2160 (4KUHD/60);	576i/50;
	4096 x 2160 (4k/ 60);	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 Connected; 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)

<sup>1</sup> 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

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