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 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.

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 [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 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)

[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

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