Sharp A175U
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 – the enhanced sealed optical laser LCD engine allows a filter-free design, IP5X rated against dust ingress. Brilliant colour brightness is maintained and servicing costs need no longer feature in your budget

Compact design – a large venue projector with a comparatively small footprint and light weight design.

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 A175U
Product Group	Professional Advanced LCD Laser Installation Projector
Order Code	60006254 (B), 60006258 (W)

Image

Projection Technology	3LCD Technology			
Native Resolution	1920 x 1200 (WUXGA)			
Aspect Ratio	16:10			
Contrast Ratio	3000000:1			
Brightness	16000 Lm / 17000 Lm Center; compliant with ISO21118-2012			
Lamp	Laser Light Source			
Light Source Life [hrs]	20000 [1]			
Lens	6 motorized lens options			
Lense Adjustment	Motorized			
Lens shift	Up to H:±25, V:+65,-65			
Keystone correction	+/- 40° manual horizontal / +/- 30° manual vertical			
Projection Factor	depending on lens selection (std. option NP54ZL at 1.25-2.01:1)			
Projection Distance [m]	0.68 – 80.77			
Screen Size (diagonal) [cm] / [inch]	Maximum: 1,270 / 500"; Minimum: 152 / 60"			
Zoom	Motorized			
Focus Adjustment	Motorized			
Supported Resolutions	1080i/50/60; 1080p/24/25/30/ 50/60;	1920x1200 (WUXGA) - 640x480 (VGA); 2048 x 1080 (2k);	2560 x 1600 (WQXGA); 4096 x 2160 (4k);	720p/50; 720p/60
Frequency	Digital Frequency: Horizontal: 15/24 - 153 kHz; Vertical: 24-120 Hz			

Connectivity

Digital	Input: 1 x 3G-SDI; 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 USB A (2A power delivery)

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]	990 Normal / 890 Silent Mode / 0,5 Network Stand-by / 2,0 Stand-by

Mechanical

Dimensions (W x H x D) [mm]	599 x 238 x 490 (without lens and feet)
Weight [kg]	28.7
Fan Noise [dB (A)]	43 / 37 (Normal / Silent)
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	4K/60Hz interfaces; AMX Beacon; 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; 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 0.65 max/-0.65 max, horizontal ± +0.25 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; Virtual Remote for direct PC control

Green Features

Energy Efficiency	ECO scheduler; Intelligent power management; Less than 0.5W 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(S)); Power Cord; Projector; Quick Setup Guide; Users Manual on CD-ROM

Optional Accessories

Optional Accessories	6 optional bayonet lenses; Universal Ceiling Mounts (PJ02UCMPF)
Lenses - motorized	XP-51ZL/NP51ZL (0.53-0.65:1); XP-52ZL/NP52ZL (0.65-0.86:1); XP-53ZL/NP53ZL (0.86-1.25:1); XP-54ZL/NP54ZL (1.24-2.01:1); XP-55ZL/NP55ZL (1.98-3.95:1); XP56ZL/NP56ZL (3.92-7.5:1)

[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 RG2 of IEC62471-5 Ed1 2015 (changing to RG3 with the use of NP55ZL, NP65ZL lens.)
DO NOT LOOK DIRECTLY INTO THE BEAM.

| ErP | CE | RoHS | TUEV Type Approved |