UDX-U45LC

45,000 lumens, UXGA, 3-chip DLP laser phosphor large venue projector

- **Stunning experiences thanks to high-brightness images**
- **More lumens from the same format**
- **Savings on installation and shipping time**
- **Laser phosphor light source for reduced costs**
- **24/7 operation**

The UDX range delivers stunning experiences and savings on installation and shipping time, reducing costs significantly. The most compact, high-brightness laser projectors with integrated cooling on the market, the UDX projectors bring reliable and razor-sharp 4K images to every type of event and venue.

The UDX-U45LC features UXGA resolution and 45,000 ISO lumens light output to ensure flawless shows with accurate colors at all times. The Constant Light Output (CLO) functionality also guarantees peace of mind by providing constant brightness and color over time. The UDX platform offers the widest color spectrum in the industry. Without compromising on brightness, the UDX color quality matches the renowned Xenon quality and outperforms the Rec. 709 color space.

Cut costs with laser projection

Thanks to their laser phosphor light source, lamp-related costs and maintenance as well as image flicker, belong to the past. The UDX series delivers a long lifetime and high reliability to ensure minimum downtime. The UDX's compact and rugged design allows you to reduce shipping and labor costs. The modular components can be removed quickly to limit servicing time. You can also reuse your TLD+ lenses.

Pick your brightness and resolution

The unique FLEX^2 feature will allow you to tune and lock your brightness and resolution to a specific show. You'll now need less projectors to cover a wider range of brightness levels and resolutions.

Faster processing for sharper images

The Barco Pulse 4K electronics offer an intuitive interface and flexible, user-friendly, embedded control software. Its Single Step Processing (SSP) allows for sharper images and less latency.

Designed for 3D mapping

With the high resolution 4:3 aspect ratio, the UDX-45ULC is a very well suited and affordable solution for 3D mapping with high brightness and high quality images.

Product specifications	UDX-U45LC
General specifications	
Projector type	UXGA 3-chip DLP digital projector
Technology	0.96" DMD™ x3
Resolution	1600 x 1200
Brightness	41,000 center lumen* 39,500 ANSI lumens* 45,000 ISO lumens*
Contrast ratio	Full field 2200:1
Contrast ratio Barco DynaBlack®	20.000:1
Optical lens shift	Vertical between -100% to +130%, depending on lens Horizontal up to +/-40%, depending on lens Motorized zoom and focus (with lens memory on TLD lenses) Motorized lens shift (with position memory on all lenses)
Light source	Laser B + R and inorganic Ph wheel
Brightness uniformity	95%
Light source lifetime	20,000 hrs
Color correction	P7
Optical dowser	Digital
Aspect ratio	4:3
Lenses	TLD+ 0.37, 0.65-0.85, 0.8-1.16:1 ; 1.25-1.6:1 ; 1.5-2.0:1 ; 2.0-2.8:1 ; 2.8-4.5:1 ; 4.5-7.5:1 ; 7.5-11.5:1
Orientation	360°
Color reproduction	P3 DCI (98%) with P7 color correction
Sealed DLP™ core	standard
Inputs	Single HDBaseT; HDMI™ 2.0 (HDCP2.2, HDR10); DP 1.2 (HDCP 1.3); Quad 3G/12G SDI / BarcoLink ULTRA
Input resolutions	From NTSC up to 4K (4,096 x 2,160) refresh rates: 24hz to 120hz 4K/4KUHD (4096 x 2160/ 3860 x 2400) to 240hz WQXGA (2560 x 1600)
Picture-by-picture	Two sources simultaneously
CLO (constant light output)	Standard
DMX 512	standard
WARP	Direct adjust OSD + toolset
ScenergiX	Horizontal and vertical edge blending
Image processing	Embedded warp & blend
Keystone correction	Yes
Integrated web server	Yes
Software tools	Projector Toolset + Android app + iOS app + Insights Management Suite (IMS)
Control	XLR wired + IR, RS232, Wifi (opt), GSM (opt)
3D	Active eye wear (optional), passive circular (optional); 2 flash up to 200Hz*
Optional Inputs	Quad DP1.2 / Fiber SFP
Max. pixel clock	600 MHz
Network connection	10/100 base-T, RJ-45 connection, Wifi (optional)
Dimensions (WxLxH)	660 x 830 x 350 mm / 25.98 x 32.67 x 13.77 inches
Weight	92kg (202 lbs)/shipping weight from factory: 110kg (242 lbs)
Power requirements	120-160 V (reduced power) / 200-240V (+/-10%), 20A, 50-60Hz
Operational humidity	0-80% (non condens)
Max. power consumption	3750W
Noise level (typical at 25°C/77°F)	58dB(A)
Operational ambient temperature	0-40°C / 32°-104°F (reduce power >35°C)
Dissipation BTU	12,795
Shipping Dimensions	(WxLxH) 800 x 1,200 x 685 mm / 31.49 x 47.24 x 26.96 inches
Standard accessories	Power cord, wireless/XLR wired rugged remote control
Certifications	Compliant with UL60950-1 and EN60950-1 complies with FCC rules & regulations, part 15 Class A and CE EN55032 Class A, Rohs
Warranty	3 years
*Note	* Brightness levels +/-10%

Last updated: 06 Jan 2025

© 2025 Barco nv. All rights reserved. Reproduction in whole or in part without written permission is prohibited. All brand names and product names are trademarks, registered trademarks or tradenames of their respective holders. Due to continued innovation, information and technical specifications are subject to change without prior notice. Please check www.barco.com for the latest specifications.