

UDM-4K15

15,000 lumens, 4K UHD, 3-chip DLP digital large venue projector



- Dazzling colors outperforming the Rec. 709 color space
- High residual value thanks to rugged design
- Remote fleet management and connectivity with Barco Insights Management Suite
- Unified Pulse electronics with Single Step Processing

Just like the 22K version, the UDM-15K never compromises on the quality or brightness of your projection. The UDM-4K15 features 4K UHD resolution and 15,000 lumens light output to deliver impactful 4K experiences with mind-blowing colors.

Operational efficiency

Lift your creativity to unprecedented levels with the widest lens shift on the market and an extensive list of other peripherals which will facilitate a smooth installation and integration of the projector in your setup. Barco's unique FLEX² feature allows you to tune and lock the brightness level or resolution for a specific show. The modular design supports fast maintenance and easy serviceability in the field.

Pulse Electronics

With the Barco Pulse proprietary Single Step Processing technology warping, scaling and 4K UHD processing is done in only one step. The result? Razor-sharp images, market leading lowest latency, and less dark time than comparable solutions.

Connectivity

The Barco Insights Management Suite dashboard and remote log file access enables faster and more effective troubleshooting. Manage the brightness settings of your projector fleet and keep track of operating conditions anywhere and anytime through a secured cloud-based platform and integrated 3G connectivity.

Long lifetime

Thanks to its robustness and the smart material choices, you can trust UDM to withstand the endurances of life on the road. With the laser phosphor light source, lamp-related costs and maintenance as well as image flicker, belong to the past. Barco's outstanding integrated laser cooling prevents overheating and the Constant Light Output functionality guarantees constant brightness and color across the projector's lifetime.

Product specifications

UDM-4K15

General Specifications

| | |
|--|---|
| Projector type | 4K UHD 3-chip DLP digital projector |
| Technology | 0.9" DMD™ x3 |
| Resolution | 3,840 x 2,400 (4K UHD) / 2,560 x 1,600 (native) / 5,120 x 3,200 (processing) |
| Brightness | 14,500 (4K UHD) center lumens* 14,000 ANSI lumens* 15,000 ISO lumens* |
| Contrast ratio | Full field 2200:1 |
| Contrast ratio Barco DynaBlack® | 20,000:1 |
| Optical lens shift | Vertical: up to 160%, down to 150% (motorized), depending on lens Horizontal: up to +/-50% (motorized), depending on lens with lens memory on TLD+ lenses |
| Light source | Laser B + Red compensator and inorganic Ph wheel |
| Brightness uniformity | 95% |
| Light source lifetime @ 100% power, DynaBlack® off, towards 50% brightness | 30000 hrs |
| Color correction | P7 |
| Optical dowsner | Digital |
| Aspect ratio | 16:10 |
| Lenses | TLD+ 0.37; 0.65-0.85; 0.8-1.16; 1.25 -1.61; 1.5-2.01; 2.0-2.81; 2.8-4.51; 4.5-7.51; 7.5-11.51 |
| Orientation | 360° |
| Sealed DLP™ core | Standard |
| Inputs | Single HDBase1/ HDMI™ 2.0 (HDCP2.2 -HDR**)/ DP1.2 (HDCP 1.3)/ Quad 3G-12G SDI/BarcoLink ULTRA/ RJ45 Ethernet / RS232 / USB(5v) / 12V out/ BNC 3D sync in-out |
| Input resolutions | Including and up to 3840 x 2400 @ 120Hz 4096 x 2160 @ 120Hz 2560 x 1600 @ 240Hz |
| Processing | Pulse Electronics |
| 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***, GSM*** |
| 3D | Active eye wear (optional), passive circular (optional); 2 flash up to 200Hz; optional Dual Eye Point 240Hz |
| Optional Inputs | Quad DP1.2, Fiber SFP |
| Max. pixel clock | 600 Mhz |
| Network connection | 10/100 base-T, RJ-45 connection; Wifi***, GSM*** (connected models) IOT connected with IMS (in selected country's) |
| Dimensions (WxLxH) | 725 x 540x 339 mm / 28.54 x 21.26 x 13.3" |
| Weight | 48 kg (105lbs) / shipping weight from factory: 61 kg (134.5 lbs) |
| Power requirements | 120-160 V (reduced power) 15A / 200-240V (+/-10%); 8.5A, 50-60Hz |
| Operational humidity | 0-80% (non condens) |
| Power consumption | 1330W nom/ 1550w max @ 230 volts ECO STBY 1330W nom/ 1550w max @ 120 volts ECO STBY |
| Noise level (typical at 25°C/77°F) | 46 dB(A) |
| Operational ambient temperature | 0-40°C / 32"-104°F **** |
| Circuit board protection | Advanced coatings safeguard critical electronics from humidity and harmful substances |
| Dissipation BTU | Max. 5,200 BTU/h |
| Shipping Dimensions | incl. pallet (WxLxH) 850 x 665 x 613 mm / 33.46 x 26.18 x 24.13 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% |

** supporting HDR 10 (HLG, EOTF, PQ EOTF SMPTE 2084), Tonemapping (EETF ITU-R BT2408-4 Annex 5)

*** Wifi and GSM options are not available in all countries. Check with your Barco representative for more info.

**** At higher altitude light output might be dimmed

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