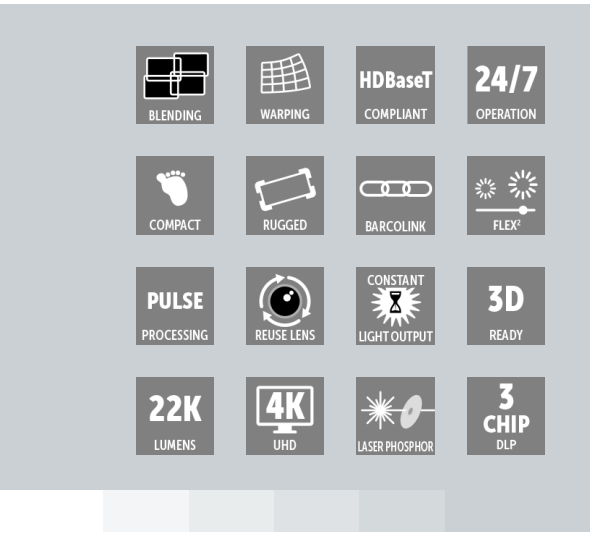
UDM-4K22

21,000 lumens, 4K UHD, 3-chip DLP digital large venue projector



- **Lightest 22K laser projector in the market**
- **High residual value thanks to rugged design**
- **Remote fleet management and connectivity with Barco Insights Management Suite**
- **Unified Pulse electronics with Single Step Processing**

Weighing less than 50kgs, this is the lightest 22K projector in the market. And while the compact and light-weight design of the UDM-4K22 saves you lots of installation time and reduces shipping and labor costs, it never compromises on the quality or brightness of your projection. The UDM-4K22 features 4K UHD resolution and 21,000 lumens light output to deliver impactful 4K experiences with mind-blowing colors. The UDM projector offers the widest color spectrum for 22K laser phosphor projection on the market outperforming the Rec. 709 color space.

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 UDM is the first projector in the Barco range which is fully connected. 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-4K22
Projector type	4K UHD 3-chip DLP digital projector
Technology	0.9" DMD^{TM} x3
Resolution	3,840 x 2,400 (4K UHD) / 2,560 x 1,600 (native) / 5,120 x 3,200 (processing)
Brightness	20,000 center lumens / 19,000 ansi lumens* 22,000 ISO lumens*
Contrast ratio	Full field 2200:1 / Barco Dyna Black 20000:1
Brightness uniformity	95%
Aspect ratio	16:10
ScenergiX	Horizontal and vertical edge blending
Lenses	TLD+ 0,37; 0,65-0,85; 0,8-1,16; 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
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)
Color correction	P7
Light source	Laser phosphor with inorganic phosphor wheel
Light source lifetime	20,000hr (at 100% laser power, DynaBlack = off)
Optical dowser	Digital
Picture-by-picture	Two sources simultaneously
Sealed DLP™ core	Standard
Orientation	360°
DMX 512	Standard
WARP	Direct adjust OSD + toolset
Image processing	Embedded warp & blend
Processing	Pulse Electronics
Keystone correction	Yes
Integrated web server	Yes
CLO (constant light output)	Standard
3D	Active eye wear (optional), passive circular (optional); 2 flash up to 200Hz; optional Dual Eye Point 240Hz
Inputs	Single HDBaseT; HDMI2.0 (HDCP2.2, HDR10); DP 1.2 (HDCP1.3); Quad 3G/12G SDI/BarcoLink ULTRA
Optional Inputs	Quad DP1.2, Fiber SFP
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)
Max. pixel clock	600 Mhz
Software tools	Projector Toolset + Android** app + iOS** app
Control	XLR wired + IR, RS232, Wifi**, GSM**

PRODUCT SPECIFICATIONS	UDM-4K22
Network connection	10/100 base-T, RJ-45 connection, Wifi**
Power requirements	120-160 V (max 70% brightness) 18.5A / 200-240V (+/-10%), 13.5A, 50-60Hz
Max. power consumption	1800W nom/ 2200w max @ 230 volts ECO STBY 1300W nom/ 1530w max @ 120 volts ECO STBY
Noise level (typical at 25°C/77°F)	48 dB(A)
Operational ambient temperature	0-40°C / 32°-104°F ***
Operational humidity	0-80% (non condens)
Dissipation BTU	Max. 6,890 BTU/h
Dimensions (WxLxH)	725 x 540x 339 mm / 28.54 x 21.26 x 13.3'
Shipping Dimensions	incl. pallet (WxLxH) 850 x 665 x 613 mm / 33.46 x 26.18 x 24.13 inches
Weight	48 kg (105lbs) / shipping weight from factory: 61 kg (134.5 lbs)
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% ** 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

Last updated: 04 Jan 2023

Technical specifications are subject to change without prior notice. Please check www.barco.com for the latest information.