

EK-820U

WUXGA Large Class 1 chip DLP Projector

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The Top-Level 1 chip DLP Laser Projector



Outstanding Features

- High Brightness 10,000lm
- Digital Terminal (HDBaseT, HDMI IN/OUT, 3G-SDI IN, DVI-D IN)
- Flexible Installation
 - Flexible Installation up to 360-degree (vertically and horizontally) and Portrait Projection
 - Lens Shift H: +/- 15 %, V: +/- 50 %
 - Keystone Correction H: +/- 20 °, V: +/- 20 °, 4-Corner
 - Geometric Correction and Blending Function
 - 6 Optional Lenses including Ultra Short Throw Lens
- Sealed Optical Engine design (IP6X, No ingress of dust) without filters
- Quiet Operation: Fan Noise 32dB (Eco) / 35dB (Normal)
- High Color Reproduction
It covers 98% of the color space for the Rec709 (HDTV primary color space) with blue and red laser diode.
- 20,000 Hours Light Source Life with Laser Technology

■ Portrait Projection



■ 360-degree Projection



■ 3G-SDI IN



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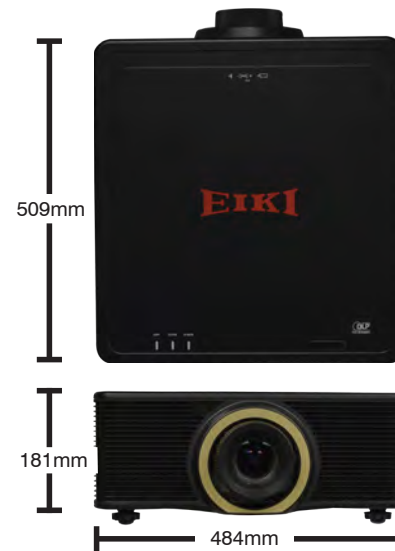
Specifications

Model (EAN)	EK-820U (4571194679175)	
Display Type	0.67" 1 chip DMD	
Resolution	WUXGA (1920 x 1200)	
Aspect Ratio	16:10	
Brightness (ANSI)	10,000 lm	
Contrast Ratio (with Extreme Black mode)	100,000:1	
Projection Light Source	Laser (Blue and Red LD) + Phosphor	
Light Source Life	20,000 hours	
Image Diagonal	Depends on lens (See below table)	
Zoom & Focus	Powered	
Throw Ratio	Depends on lens (See below table)	
Lens Shift	V: +/- 50 %, H: +/- 15% (Powered)	
Keystone Correction	V: +/- 20 degrees, H: +/- 20 degrees, 4-corner	
Projection Elevation Adjustment	Up to 5 degrees	
Scanning Frequency	H Sync: 15, 31 - 91.4 kHz, V sync: 24 - 30, 47 - 120 Hz	
Dot Clock	162 MHz	
Input Signals - Computer	WUXGA (1920 x 1200) - VGA (640 x 480)	
Input Singals - Video	1080 i/p, 720p, 576i/p, 480i/p	
Terminal	3G-SDI In	BNC x 1
	HDBaseT In	RJ45 x 1
	HDMI In	HDMI (version 1.4) x 1
	DVI In	DVI-D x 1
	VGA In	D-Sub 15 x 1
	LAN	RJ45 x 1
	Monitor Out	D-Sub 15 x 1, HDMI (version 1.4) x 1
	Wi-Fi	USB Type A x 1
	3D SYNC In	MINI DIN 3 pin x 1
	3D SYNC Out	MINI DIN 3 pin x 1
	Service	MINI USB x 1
	RS232C	D-sub 9 x 1
	Remote Control In	3.5mm Mini Jack in x 1
	Fun Noise (Eco / Normal)	32 dB / 35 dB
Dimensions (W x H x D)	484 x 181 x 509 mm	
Weight (without Lens)	23.4 kg	
Power Requirements	AC 100 - 240 V, 50/60 Hz	
Power Consumption (Eco / Normal)	480 W / 945 W	
Thermal Dissipation	3213 BTU / hour	
Standard Accessories	AC Power Cord x 2 (U.S.A. & Euro), VGA cable x 1, Lens Cover x 2, Remote Control (with AAA batteries x 2), Quick Start Guide, Safety Guide	

Optional Lenses

Model #	AH-A25010	AH-A22010A	AH-A22020	AH-A22050	AH-A21010	AH-A23010
Image						
Throw Ratio	0.36:1	0.75 - 0.95:1	0.95 - 1.22:1	1.22 - 1.53:1	1.52 - 2.92:1	2.90 - 5.50:1
Throw Distance	0.96 - 2.65 m	0.79 - 6.21 m	1.01 - 7.98 m	1.29 - 9.93 m	1.61 - 19.00 m	3.18 - 34.77 m
Zoom Ratio	-	x 1.26	x 1.28	x 1.25	x 1.9	x 1.9
Screen Size	120" - 350"	50" - 300"				
Focal Length	9.49 - 9.55 mm	11.11 - 14.06 mm	14.03 - 17.96 mm	18.07 - 22.59 mm	22.56 - 42.87 mm	42.60 - 80.90 mm
F Number	2.4	2.30 - 2.53	2.30 - 2.57	2.00 - 2.32	2.30 - 3.39	2.30 - 2.74

Dimensions



Remote Control



Terminals



- ① 3G-SDI IN ② DVI-D ③ VGA IN ④ VGA OUT
 ⑤ HDMI OUT ⑥ HDMI IN ⑦ 3D SYNC OUT ⑧ HDBaseT
 ⑨ LAN ⑩ RS-232C ⑪ REMOTE IN ⑫ 3D SYNC IN
 ⑬ USB Type A (for Wireless LAN) ⑭ MINI USB (for SERVICE)

Keypad



Optional Wi-Fi Dongle



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