

# EIKI

## EK-830U / EK-831U

WUXGA Large Class 1 chip DLP Laser Projector



## High Brightness, Vivid Color and High Performance, Maintenance-free Laser Projector

### High brightness

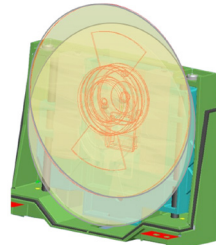
EK-830U and EK-831U realized high brightness with 10,000lm, 12,500lm. Both models enable realistic image projection close to the original image even in a bright environment.



### Vivid Color

To achieve color enhancement, built-in unique color wheel system was adopted. It provides High Brightness and Vivid Color images according to the various environments and applications without exchanging the color wheel.

High brightness and Vivid color modes can be selected easily (Mode switching with one click. Bright and Vivid etc.) by OSD menu.



Color Wheel

### Longer Life Projector with High Quality Endurance

There are three points to ensure long-term operation.

1. Mercury-Free laser light source illuminates brightly up to 20000 hours.
2. Durable multi heat dissipation cooling function achieves efficient operation.
3. The Color Wheel adopts high temperature sintering processed ceramic.

### Sealed Optical Engine design (IP6X)

No filters are necessary thanks to sealed optical engine design which is classified as IP6X rating. It offers virtually maintenance-free operation. (Ability to operate 24/7)

### Recommended Applications & Place of Installations



- Auditoriums
- Large Conference rooms
- Exhibitions / Events
- Museums / Galleries
- Theatres / Halls
- Houses of Worship
- Signage

**10,000 Lumens\***  
**12,500 Lumens\***  
**WUXGA**  
**(1920 x 1200)**

EK-830U and EK-831U have the highest brightness in EIKI laser projectors lineup which outputs over 10,000 lumens.

This model equips a unique dual-track color wheel system which offers both high-brightness and wide color gamut.

Due to some special features offering increase durability and this model provides virtually maintenance-free operation, and reduces total cost of ownership.

- Laser light source illuminates brightly up to 20,000 hours.
- Durable multi heat dissipation cooling function
- Color wheel made by high temperature ceramic sintering process
- Filter-less sealed optical engine design (IP6X)

Thanks to these features, this model has an ability to operate 24/7.

Further, flexible installation ability and 6 option lenses with Japanese-made enables you to install at various places.

### Key Features

- 20,000hrs Light Source Life
- 20,000 : 1 Contrast ratio
- Flexible installation
  - 360° free orientation
  - Portrait Projection
  - Lens Shift
  - V: + 60% H: +/- 10% (AH-AC21020)
- Keystone Correction
- V: +/- 30 degrees
- H: +/- 30 degrees,
- 4-Corner
- 6 Option Lenses
- Sealed Optical Engine design IP6X without filters
- Lens Memory (Shift / Zoom / Focus)



\* Center Lumens

# EK-830U / 831U

## WUXGA Large Class 1 Chip DLP Laser Projector

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### Specifications

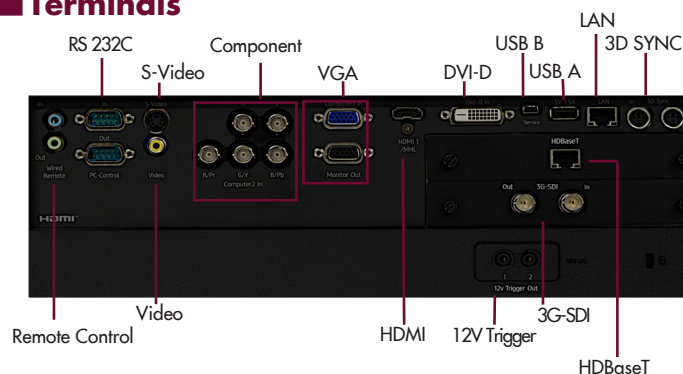
Model (EAN)	EK-830U (457119467 964 9) EK-831U (457119467 962 5)	
Display Type	0.67" 1chip DMD	
Resolution	WUXGA (1920 x 1200)	
Aspect Ratio	16:10	
Brightness	10,000 lm* / 12,500 lm*	
Contrast Ratio	20,000:1	
Projection Light Source	Laser (Blue) + Phosphor	
Light Source Life	20,000 hours	
Image Diagonal	Depends on lens (See below table)	
Lens (F Value / Focal length)	Depends on lens (See below table)	
Zoom / Focus Adjustment	Motorized	
Zoom Ratio	Depends on lens (See below table)	
Throw Distance	Depends on lens (See below table)	
Throw Ratio	Depends on lens (See below table)	
Lens Shift (Motorized)	V: +60%, H: +/-10% (AH-AC21020)	
Keystone Correction	V: +/-30 degrees, H: +/-30 degrees 4-Corner	
Projection Elevation Adjustment	Up to 5 degrees	
Scanning Frequency	H Sync: 15.73- 91.14 kHz V Sync: 23.98 - 119.85 Hz	
Dot Clock	162 MHz	
Input Signals - Computer	WUXGA (1920 x 1200) -VGA (640 x 480)	
Input Signals - Video	1080 i/p, 720 p, 576 i/p, 480 i/p	
Terminal	3G-SDI	BNC x 2 (IN / OUT)
	HDBaseT	RJ45 x 1
	HDMI	HDMI x 1 (Ver 1.4)
	DVI-D	DVI-D x 1
	VGA	D-Sub 15 x 2 (IN / OUT)
	RGBHV/ Component	5 BNC x 1
	S-Video	Mini Din 4 Pin x 1
	Video	RCA (Yellow) x 1
	USB	USB Type A x 1 (Power Out)
	USB	USB Type B x 1 (Service)
	LAN	RJ45 x 1
	RS-232C	D-sub 9 x 2 (IN / OUT)
	3D Sync	MINI DIN 3 pin x 2 (IN / OUT)
	Remote Control	3.5mm Mini Jack x 2 (IN / OUT)
12V Out	3.5mm Mini Jack x 2 (Max 0.5A)	
Fan Noise (Eco / Normal)	39 dB / 43 dB	
Dimensions (W x H x D)	548 x 189 x 553 mm	
Weight	26.5 kg (Without Lens)	
Power Requirements	AC 100 - 240 V, 50/60 Hz	
Power Consumption (Eco / Normal)	1020W / 1290 W	
Thermal Dissipation	4,606 BTU	
Standard Accessories	AC Power Cord x 2 (U.S.A. & Euro), VGA cable x 1, Remote Control (with AAA batteries x 2), Quick Start Guide, Safety Guide, Lens Cover x 1	

\* Center Lumens

### Dimensions



### Terminals



### Optional Lenses

Lens	Throw Ratio	Throw Distance (m)	Zoom Ratio	Screen Size	Lens Spec.
AH-AC22060	0.76-0.95:1	0.98-6.12	1.25x	60"-300"	F=1.84-2.32 f=11.30-14.10 mm
AH-AC22070	1.14-1.71:1	1.47-11.02	1.50x		F=1.82-2.32 f=17.20-25.50 mm
AH-AC21020	1.61-2.42:1	2.08-15.61	1.50x		F=1.60-2.0 f=24.1-35.8 mm
AH-AC24020	2.37-3.60:1	3.06-23.27	1.52x		F=1.80-2.32 f=35.20-53.50 mm
AH-AC23020	3.53-5.65:1	4.56-36.49	1.60x		F=1.80-2.20 f=51.33-82.49 mm
AH-AC23030	5.52-8.83:1	7.13-57.06	1.60x		F=1.84-2.34 f=79.18-125.95 mm

### Optional Accessories

Wired Remote controller (P/N: AH-AC34010)

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