

10X Low-illumination RGB Camera



10X Low-illumination RGB Camera is a 10X optical anti-vibration star-level RGB camera that it outputs 1920*1080 Full HD images. With the combination of outstanding optical design and low-reflect coating film technology, 10X Low-illumination RGB Camera decrease the impact of aberration while securing high performance in contrast.

Features

- ❖ Optical anti-vibration
- ❖ Low-illumination
- ❖ Light in weight, small in size
- ❖ Full HD imaging
- ❖ High optical performance

Parameters

Camera

- ❖ Sensor: 1/3 CMOS
- ❖ Effective pixels: 4 MP
- ❖ Video output (HD): 1080p/60, 1080p/50, 1080p/30, 1080p/25, 1080i/60, 1080i/50, 720p/60, 720p/50, 720p/30, 720p/25
- ❖ Low-illumination: 0.5 lx (1/30sec, F1.8, 50%)
- ❖ Illumination range: 100 lx~100,000 lx
- ❖ Gain: auto/manual
- ❖ Shutter speed: 1/1~1/10,000 sec
- ❖ Sync mode: internal sync
- ❖ Exposure compensation: -12dB~+12dB (record 13 step)
- ❖ Backlight compensation: ON/OFF
- ❖ Gamma correction: Standard
- ❖ Diaphragm control: 16 step
- ❖ White balance: ATW1 (Narrow), ATW2 (Wide), One-touch, Manual (B,R)
- ❖ AE: Manual, Auto, Priority mode (shutter/diaphragm)
- ❖ Lens (wide~tele): optical zooming 10.5X, f=3.2~33.6, F1.8~3.4

- ❖ Zoom: Standard/Variable/Direct
- ❖ Time of zoom: 1.5 sec
- ❖ Focus: Manual, Auto, One-touch
- ❖ Horizontal FOV (wide~tele): 62~6.5°
- ❖ Closest distance for shooting (wide~tele): 10mm~800mm
- ❖ Horizontal resolution: above center 800TV line

Functions

- ❖ Vibration compensation
- ❖ Wide dynamic range
- ❖ Haze cut
- ❖ Denoise (2D+3D)
- ❖ Slow-response auto exposure
- ❖ Image switch (Black & White)
- ❖ Image freeze
- ❖ E-flip
- ❖ Mirror
- ❖ Temperature display
- ❖ Title display
- ❖ Shooting/video mode display

Connections

- ❖ Video output: Digital: Y/Pb/Pr 4:2:2 (LVDS)
- ❖ Control connector: VISCA protocol

Others

- ❖ Voltage: DC 8~12V
- ❖ Power consumption: 3W
- ❖ Working temperature: -5~60°C
- ❖ Storage temperature: -40~60°C
- ❖ Operating humidity: 20%~80% (non-condensate)
- ❖ Storage humidity: 20%~90% (non-condensate)
- ❖ Size: 31.9*41.5*58.4mm
- ❖ Weight: 77g

Connection between side board/control board of camera (coaxial connector 30 pin)

Pin	Name	Pin	Name
1	TXOUT3+	16	DC IN
2	TXOUT3-	17	DC IN
3	TXCLKOUT+	18	DC IN
4	TXCLKOUT-	19	GND
5	TXOUT2+	20	GND
6	TXOUT2-	21	NC
7	TXOUT1+	22	NC
8	TXOUT1-	23	NC
9	TXOUT0+	24	NC
10	TXOUT0-	25	NC
11	GND	26	RESET
12	TxD	27	NC
13	RxD	28	NC
14	DC IN	29	NC
15	DC IN	30	NC

Connector: USL00-30L-C made by KEL

