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 lowreflect 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

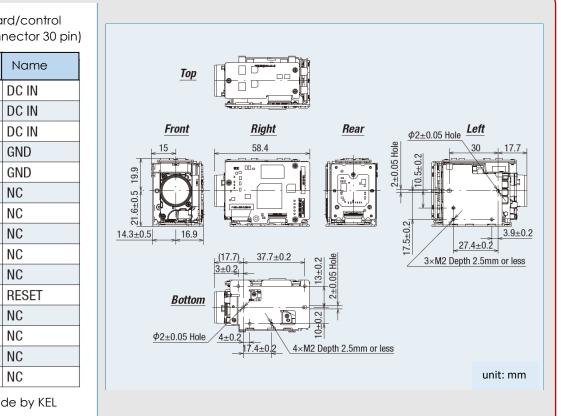
- Vibration compensation
- Wide dynamic range
- Haze cut
- Denoise (2D+3D)
- Slow-response auto exposure
- Image switch (Black & White)
- Image freeze
- E-flip
- Mirror
- Temperature display
- Title display
- Shooting/video mode display

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	TX0UT2+		20	GND
6	TXOUT2-		21	NC
7	TX0UT1+		22	NC
8	TXOUT1-		23	NC
9	TX0UT0+		24	NC
10	TXOUTO-		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				