



# ECO SERIES

## ECO-HD21

1/3" CMOS Image Sensor  
2.1MP HD camera

Our newest addition to our fine line of products is the ECO-HD21 Compact Color Camera with SDI, standardized by SMPTE, as defined for its use in broadcast-grade video. This camera comes with HD-SDI/3G-SDI, HDMI and composite video output giving flexibility for its use in various recording systems. Designed by broadcast industry specialists to meet the stringent demands of today's CCTV Professional.

The 0.1 lux illumination with over 50dB signal to noise ratio ensures clear images in low illumination scenes. Due to these and other features this camera can be used in the security, traffic, visual inspection systems as well as in the medical video field, further expanding its capabilities.

### FEATURES

- 1/3" 2.1M CMOS Image Sensor
- Full HD 1920 x 1080 (60P / 60i / 50P / 50i / 30P / 25P) 1280 x 720 (60P / 50P / 30P / 25P)
- SDI / HDMI Simultaneous Output
- Advanced RGB Interpolator for High Resolution
- Wide Dynamic-Range Compensation (WDR)
- Adaptive Digital Noise Reduction
- Adaptive Contrast Enhancer (ACE )
- Lens shading Compensation
- Live Defect Detection & Correction
- High Light & Privacy Masking
- Motion Detection
- Color Rolling Suppression
- On Screen Display



### OUTPUT INTERFACE

- 1 Setup Switch**  
The switch is used for setting and adjusting the camera's functions and properties.
- 2 Power LED**  
This lamp turns on when the proper power is applied to the camera.
- 3 HDMI Out Terminal**  
HDMI terminal for HD-SDI video signal output.
- 4 IRIS Connection**  
DC IRIS Jack Connection
- 5 HD-SDI Video Out Terminal**  
BNC terminal for HD-SDI video signal output.
- 6 Main Cable Terminal**  
6 pin main cable connector.



### PRODUCT VIEWS



Front View



Side View



Top View



Rear Quarter View

### RECOMMENDED LENS



IK-YV2.1x2.8SR4A-SA2	
Mount	CS
Focal length	2.8 mm - 6 mm (2.1x)
Focus	Manual
Iris Range	F 13 - T360 (Equivalent to F360)
Iris	Auto (DC Type) (*1)
Zoom	Manual



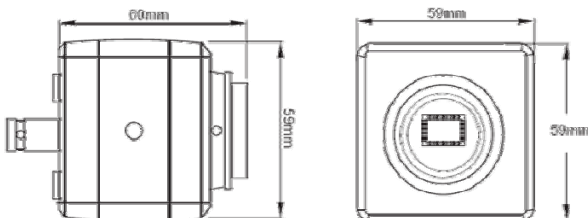
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2.1M HD COLOR CAMERA  
WITH SDI AND HDMI OUTPUT

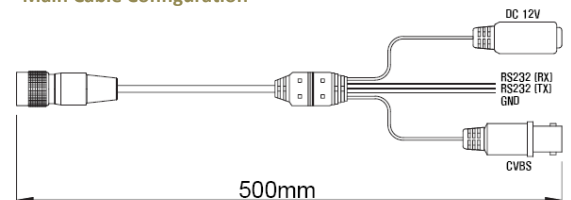
Specifications	Description
Image Sensor	1/3 Inch progressive CMOS, 2.1 Mega pixel
Total pixels	2010(H) x 1108(V) / 2,227,080 (Pixel)
Effective pixels	1944(H) x 1092(V) / 2,122,848 (Pixel)
Scanning System	Progressive Scan (Sync System Internal)
Video Output	HD-SDI / 3G-SDI 1920 x 1080p (25, 30, 50, 60fps, 1080i / 50, 59.94, 60) / 1280 x 720p (50, 60fps) HDMI NTSC, PAL Composite (1.0Vp-p, 75ohm) Color Bar Signal
Horizontal TVL	More than 1000 TVL
Minimum Illumination	0.1Lux (F1.2, 50 IRE, AGC MAX) / DSS X4:0.01 Lux
S/N Ratio	More than 50dB (AGC Off)
LENS Mount	C, CS
Serial Port	RS-232
Electric Shutter	AUTO / MANUAL (1/30(25) ~ 1/30,000 sec)
Auto White Balance	AUTO / Pushing / Manual (3000K, 5000K, 8000K, R-Gain, B-Gain)
Backlight Compensation	BLC (Off / On)
Digital Noise Reduction	DNR (Off / Low / Middle / High)
Wide Dynamic-Range	WDR (Off / Low / Middle / High)
Mirror Image	MIRROR, FLIP (Off / On)
Privacy Masking	Yes
Motion Detection	Yes
Digital ZOOM	Yes
Camera ID	Yes
Operating Temperature	0° C ~ 50° C
Operating Humidity	Under 90% Non-condensing
Power	DC12V 400mA , 4.8.W
Dimensions (W x H x D)	2.32" x 2.32" x 2.36"
Weight	200g (0.44 lbs)

### DIMENSIONS



1. RS232 (RX)
2. DC12V
3. GND
4. CVBS (composite)
5. Video GND
6. RS232 (TX)

### Main Cable Configuration



Design and specifications are subject to Change without notice.

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