



HD Video Camera System for Ultra-high Sensitivity Color Video Shooting

Ultra-high sensitivity CMOS Camera
SSC-9000



- Newly developed ultra-high sensitivity 2/3 type CMOS sensor is equipped.
- The power-saving camera with non-cooling type.
- The camera head and CCU can be connected with a twisted-pair cable, up to a length of approximately 100 m

HD Video Camera with the newly developed ultra-high sensitivity CMOS sensor.

In addition, the 3D noise reduction function is also developed. These new technologies enable the recording of clearly visible color video under minimum illumination at 0.005 lux.

It can be used in a variety of video fields such as surveillance, bio-technology, broadcasting and astronomical observation.



Sample image recorded under minimum illumination at 0.01 lux.

■ HD Output

Picture of Video camera is outputted in various resolution from HDMI and HD-SDI.

The Picture which carried out the down conversion can be outputted from a composite.

·Format	
1920×1080/59.94p	1280×720/59.94p
1920×1080/59.94i	1280×720/50p
1920×1080/50p	NTSC/PAL
1920×1080/50i	

Camera Head Section

Imaging Device	Single CMOS / RGB Bayer
Total pixels	Approx 1.47megapixels 1408(H)×1042(V)
Valid pixels	Approx 1.33megapixels 1288(H)×1032(V)
Pixel size	7.1 μm(H)×7.1 μm(V)
Optical sensor	2/3 Type
Scanning system	Progressive
Sensitivity	F16 2000lx
Minimum Illumination	0.005lx (F1.4, 1/30, +66dB, 50IRE)
S/N	>50dB以上 (γ=1, Detail OFF)
CCU connecting port	RJ45×1 (with screw locking)

Interface

Video output Jacks	HDMI×1 HD-SDI (BNC)×1 Composite (VBS) (BNC)×1
Synchronization signal input Jack	External synchronization (VBS/2) BNC×1
Serial port	RS-232C(D-Sub 9pin male)×1
Relay interface	2 terminals (Unused pin among a serial port will be used.)
LAN	RJ45×1 (10Base-T, 100Base-TX)
IR receiver	×1 (Front panel), ×1 (Extension terminal at rear panel) ※IR remote control is optionally available.
Camera connecting port	RJ45×1
Video output Format	HDMI 1920×1080/59.94p, 1920×1080/59.94i, 1920×1080/50p, 1920×1080/50i, 1280×720/59.94p, 1280×720/50p HD-SDI 1920×1080/59.94p, 1920×1080/59.94i, 1920×1080/50p, 1920×1080/50i, 1280×720/59.94p, 1280×720/50p Composite NTSC, PAL Down convert (Letterbox)

General

DC Input Voltage	DC12V ±10% (Ripple 50mVp-p) *AC Adaptor included.
Power Consumption	<13W
Operating Temperature/Humidity	0 to 45 °C (32 to 113°F) / 35 to 90%
Storage Temperature/Humidity	−20 to 60 °C (-4 to 140°F) / 20 to 90%
External Dimensions	Camera Head 46.0(W)×55.2(H)×51.9(D)mm CCU 170.0(W)×47.0(H)×183.5(D)mm
Weight	Camera Head 160.0g CCU 1100g

Image processing functions

Image adjustment	ALC	Full auto/Shutter priority / Gain priority
	Gain	AUTO / MANUAL(0~78.0dB)
	Shutter speed	1/2*, 1/4*, 1/8*, 1/15*, 1/30, 1/50, 1/60, 1/100, 1/125, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10000 *Slow Shutter
	Gamma correction	Variable (0.35 to 0.55, OFF)
	Knee	Fixed value/Auto
	White clip	Variable (100 to 109%)
	WDR	OFF / ON
	DNR	OFF, LOW, MIDDLE, HIGH
	White balance	ATW / AWC / Manual
	R/B gain	Variable (0 to 1023)
	Black level	Variable (-100 to 0 to 100)
	Chroma correction	Variable (0 to 255)
Electric zoom	x2	
Image invert	Top/Bottom, Left/Right, Top/Bottom and Left/Right Invert	
Picture freeze	Freeze live image	
Scene files	max. 5	
OSD	Operating menu, Message, Time and Scene file# etc.	
Internal test pattern	Color bar, Grayscale, Cross-line	

The specifications and/or appearance of the products are subject to change without prior notice.

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