

MS-193FHS-V6 2.1M pixels 3G-SDI high-sensitivity waterproof color camera

Key feature



1/2.8-inch	Back-illuminated CMOS sensor	2.13 mega pixels	Near equatorial sensitivity upward
1080p/60p	ACE	Privacy masks	DNR
DEFOG	Long time exposure	OSD	Motion detection
D-ZOOM 16x	Mirror image, Flip	Shading correction	VBS output
Day-night	DIS	Waterproof lens	ANTI-SAT
IP67	Approx. 270g	38(H)×50.2(W)×32(D)mm	DC+12V

OSD settings (Optional)

OSD standard setting		
Function	Summary	
1	IRIS	Switching settings between electronic IRIS and mechanical IRIS
2	FOCUS ADJ	Indication of lens focus degree
3	BACKLIGHT	HLC, BLC, and WDR settings
4	DAY&NIGHT	DAY&NIGHT setting
5	COLOR	Auto and manual white balance settings
6	DNR	Digital noise reduction settings
7	IMAGE	Sharpness, gamma, mirror, zoom, ACE, DEFOG, shading, privacy mask settings
8	DIS	Settings to correct images caused by camera shake
9	iMOTION	Motion detection settings
10	SYSTEM	Set camera ID, frame rate, VBS, and camera title

※ See specifications for details

- Uses a 1/2.8-inch, 2.13 mega pixels, back-illuminated CMOS sensor with improved near-infrared sensitivity
- 1080p/60p, 3G-SDI, wide dynamic range capability
- The simple picture adjustment function adjusts gamma, sharpness, and color gain
- The D-ZOOM function magnifies a portion of the screen. Magnification is from 1 to 1.6 times
- There are three levels of DNR to choose from
- The white point correction function corrects for white spots on the screen
- The DEFOG function is a feature to obtain clear images even in foggy or other scenes
- The long exposure function accumulates images to increase sensitivity and can accumulate up to 32 frames
- The ACE function offers three levels of contrast and brightness
- The privacy mask function hides areas on the screen that you do not want displayed
- The motion detection function outputs motion information when there is more than a certain luminance difference between frames
- The ANTI-SAT function prevents saturation in bright locations when in NIGHT mode
- The DIS (Digital Image Stabilizer) function detects image shaking caused by camera shake and performs digital correction image output
- The OSD function is a function to set and display specific functions using a predetermined OSD display

Four languages (English, Japanese, Chinese, and Korean) are supported

Photographs

Daytime image



Nighttime image



Specifications

Item	Specifications
Model	MS-193FHS-V6
Image size	1/2.8-inch back-illuminated color CMOS sensor (IMX291)
Number of effective pixels	1945(H) × 1097(V)
Number of video output pixels	1920(H) × 1080(V)
Unit cell size	2.9 μm(H) × 2.9 μm(V)
Signal output	3G SDI
Scanning system	Progressive scan method
Video format	720p/25p, 720p/30p, 1080p/30p, 1080p/60p
Synchronizing system	Internal synchronization
S/N	46dB
Minimum illumination	0.1 Lux (1080p/30p, DAY mode, long time exposure OFF)
OSD	Setup from SW board
WDR	LOW, MIDDLE, HIGH
DEFOG	↓
ACE	↓
Privacy mask	BOX, POLYGON
DNR	LOW, MIDDLE, HIGH
Motion detection	DET WINDOW, SENSITIVITY, ESTIMATE
Day-night	AUTO, COLOR, B&W
DIS(Digital image Stabilizer)	ON/OFF
D-ZOOM	1 to 16 times
Camera shutter	AUTO/MANUAL(×2, ×4, ×8, ×16, ×32, 1/25, 1/30, 1/50, 1/60, 1/100, 1/120, 1/250, 1/700, 1/1000, 1/1600, 1/2500, 1/5000, 1/7000, 1/10000)
Mirror image, flip	ON/OFF
Lens	f=3.3(H=52°)
Power consumption	1.8W
Power supply	DC+12V ± 10%
External dimensions	38(H)×50.2(W)×32(D)mm
Weight	Approx. 270g
Operating temperature	-10°C ~ +50°C
Operating humidity	20% ~ 80%
components	Camera body, Dedicated harness

