

# DCM-F460

## HD-SDI MINIATURE CAMERA

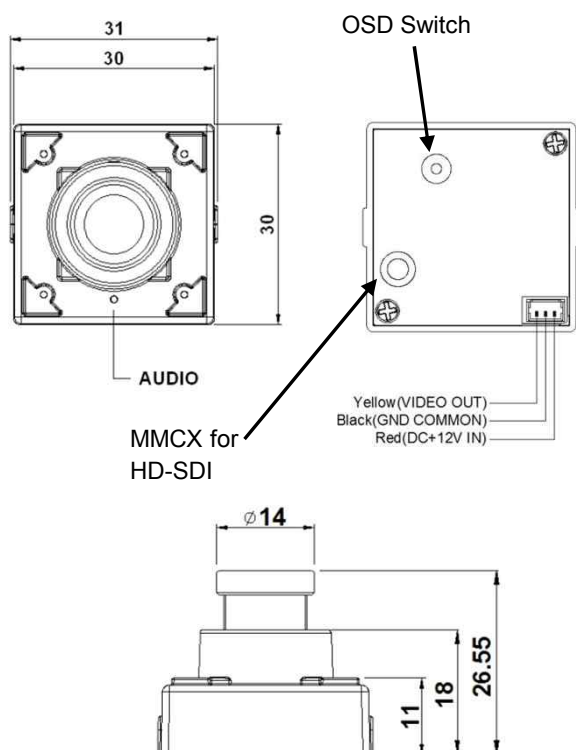


### Main Features

- 1/3" 2.75μm Pixel Panasonic Progressive CMOS Sensor
- 2Mega Pixels (1080p25/30, 720p50/60)
- Fixed Board Lens
- WDR, 3D-DNR, DSS (Sens-up) Supported
- Built-in OSD Switch
- HD-SDI Video Out Supporting standard SMPTE Protocol
- Analog Composite Video Out



### Dimension



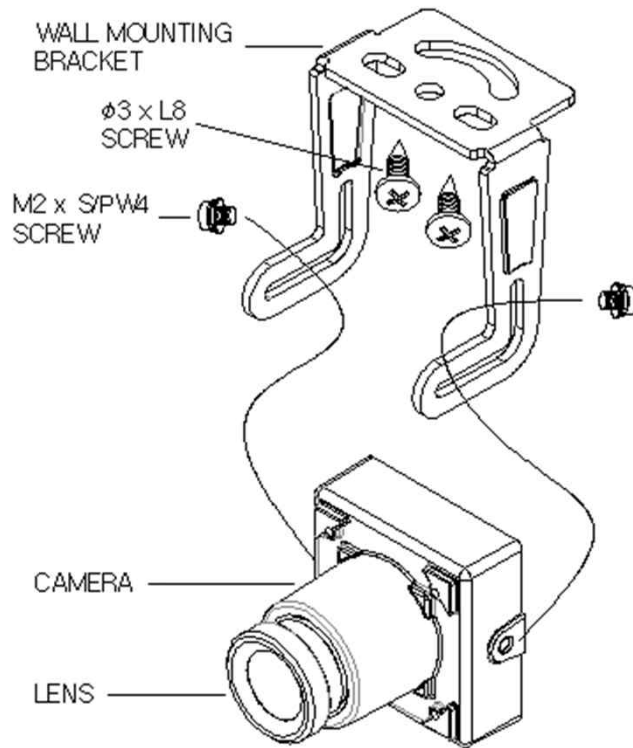
### Specifications

Model	DCM-F460
Signal System	HD-SDI (Serial Data Interface) or EX-SDI
Pickup Device	<b>1/3"(D-6mm) 2.12M Panasonic CMOS Sensor</b>
Scanning System	Progressive Scan (16:9)
Sync. System	Internal
Total Pixels	2.22M [2010(H)x1108(V)]
Active Pixels	2.12M [1944(H)x1092(V)]
Scanning Frequency	30Hz(VD) for NTSC out   25Hz(VD) for PAL out
Min. Illumination	<b>0.06Lux(F2.5 - 30IRE), 0.002Lux(DSS on)</b>
No. of IRED	N/A
H-Resolution	<b>More than 1,000TV Lines(H)</b>
S/N Ratio	More than 50dB (AGC off)
Video Out 1 (BNC)	<b>HD-SDI or EX-SDI: 1080p@25/30, 720p@50/60</b>
Video Out 2 (BNC)	Composite Video 1V p.p (NTSC/PAL - 75Ω)
Lens	<b>f=3.6mm, F2.5</b>
Lens (Mount)	Board type (M12)
Angle of View	100.5°(D), 85°(H), 46°(V)
OSD	Via 5-direction Tact-switch
Camera Title	Off, On(Max. 10 Characters)
Language	English, Chinese(Simplified), Chinese(Traditional), Japanese, Korean
Exposure	Manual
White Balance	AWB, ATW, Push Lock, Manual
BLC	Off, HLC, BLC, WDR * WDR is not operated when manual shutter mode or CVBS output mode is selected.
Day & Night Mode	AUTO, COLOR, B/W
Gain Control	AGC (0~20)
Electronic Shutter	1/25(30)~1/30,000sec
Noise Reduction	<b>3DNR (Off, Low, Middle, High)</b>
DSS(Sens-up)	<b>X32</b>
Mirror	Off, On(Mirror, Flip)
Other Features	Motion Detection (4 Zones), Privacy Mask (16 Zones), Flickerless, Lens Shading, Gamma, D-zoom, Defog etc.
Power Source	DC12V
Power Consumption	Less than 1.6 Watts (130mA)
Operating Temp.	-10℃ ~ 55℃ (Humidity :0%RH ~ 90%RH)
Size (mm)	<b>30 x 30</b>
Weight	118 g (gift-box packing)

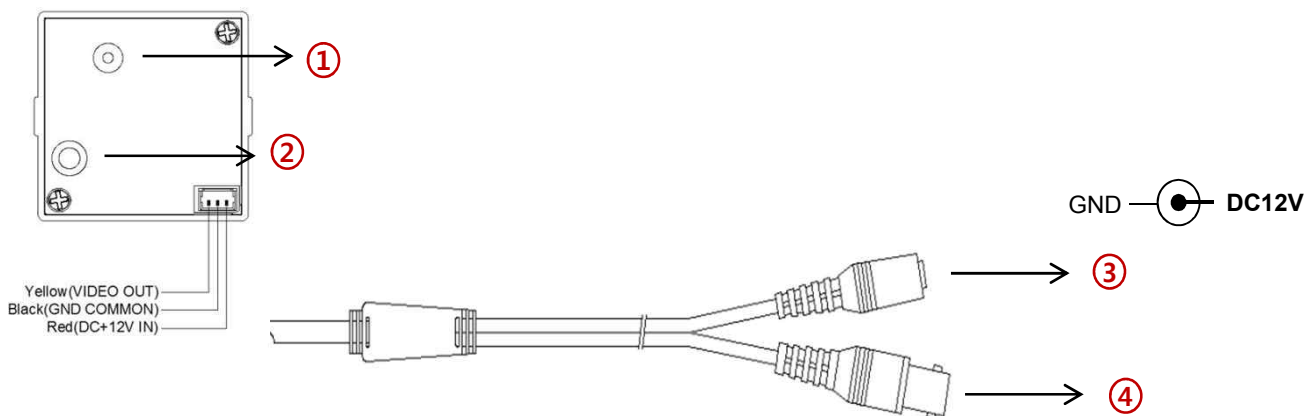
### Option

- Lens (Fixed)  
f=1.1mm(Fish-eye 180°), 2.1mm, 2.5mm, 2.8mm, 4mm, 6mm, 8mm, 12mm, 16mm, 25mm
- \* DCM-F4660 [3G-SDI (upto 1080p50/60)]

# Camera Mounting Instruction



- There are three(3) of each Ø3xL8 screw and M2xS/PW4 screw together with a swivel bracket in the accessory package.
- Please use two(2) of the screws as shown left. We are providing one of each extra screw in the package.
- If you do not use M2xS/PW4 screws provided, it can **damage** the camera board inside housing. Such the damage will be your responsibility.



	Function	I/O	Note	Remarks
①	OSD Joystick	N/A	5-directional OSD joystick	
②	SDI VIDEO OUT	OUT	MMCX to BNC	
③	POWER	IN	Camera power input	DC12V
④	VIDEO OUT	OUT	Video signal output (BNC)	75 Ω

SETUP MENU	SUB MENU1	SUB MENU2	SUB MENU3	VALUE
LENS	DC			INDOOR/OUTDOOR/DEBLUR
	MANUAL			NORMAL/DEBLUR
EXPOSURE	BRIGHTNESS			0 ~ 20
	AGC			0 ~ 20
	SHUTTER MODE			AUTO/ MANUAL/FLICKERLESS
	SHUTTER SPEED			1/30(25),60(50),120(100),250,700,1K,1.6K,2.5K,5K,7K,10K,30K
	SENS-UP			OFF/ X2/ X4/ X8 / X16 / X32
WHITE BALANCE	AWB			
	ATW			
	PUSH LOCK			Press ENTER key
	MANUAL	COLOR TEMP.		3000K/ 5000K/ 8000K
		R-GAIN		0 ~ 20
B-GAIN			0 ~ 20	
BACKLIGHT	OFF			
	HLC	LEVEL		0 ~ 20
		COLOR		BLK,WHT,YEL,CYN,GRN,MAG,RED,BLU
	BLC	H-POS		0 ~ 20
		V-POS		0 ~ 20
		H-SIZE		0 ~ 20
		V-SIZE		0 ~ 20
	WDR	WEIGHT		LOW/ MIDDLE/ HIGH
DNR			OFF/ LOW/ MIDDLE/ HIGH	
DAY&NIGHT	AUTO	DWELL TIME		0 ~ 9sec, 1sec/step
		AGC THRES		0(bright) ~ 20(dark)
		AGC MARGIN		0(bright) ~ 20(dark)
	COLOR			
	B&W			
	EXTERN / CDS	DWELL TIME		0 ~ 9sec, 1sec/step
		D->N LEVEL		0(bright) ~ 20(dark)
		N->D LEVEL		0(bright) ~ 20(dark)
		SMART IR		OFF/ON
		LEVEL		0 ~ 20
		CDS POLARITY		LOW/HIGH
IMAGE	SHARPNESS			0 ~ 20
	COLOR LEVEL			0 ~ 20
	MIRROR			OFF/ ON
	FLIP			OFF/ ON
	LENS SHADING	OFF/ ON		WEIGHT 0~100%
	GAMMA			0.45/ 0.55/ 0.65/ 0.75
	D-ZOOM			1~16X
	ACE	OFF		
		MODE		ALWAYS/ NIGHT ONLY
		LEVEL		LOW/ MIDDLE/ HIGH
	DEFOG	AUTO/ MANUAL		LOW/ MIDDLE/ HIGH

SETUP MENU	SUB MENU1	SUB MENU2	SUB MENU3	VALUE
SPECIAL	COMM. ADJUST	CAM ID		0 ~ 255
		BAUDRATE		2400,4800,9600,19200,38400,57600,115200
		PROTOCOL		PELCO-D
	PRIVACY	BOX	OFF	
			MASK SEL	0 ~ 15
			MASK MODE	OFF/ ON
			H-POS	0 ~ 60
			V-POS	0 ~ 34
			H-SIZE	0 ~ 40
			V-SIZE	0 ~ 34
			Y LEVEL	0 ~ 20
			CB LEVEL	0 ~ 20
			CR LEVEL	0 ~ 20
			TRANS	0 ~ 3
		POLYGON	OFF	
			MASK SEL	0 ~ 7
			MASK MODE	OFF/ ON
			POS0-X ~ POS3-X	0 ~ 120
			POS0-Y ~ POS3-Y	0 ~ 68
			Y LEVEL	0 ~ 20
			CB LEVEL	0 ~ 20
			CR LEVEL	0 ~ 20
			TRANS	0 ~ 3
	MOTION	OFF		
		DET WINDOW	WINDOW SEL	0 ~ 3
			WINDOW MODE	OFF/ ON
			DET H-POS	0 ~ 60
			DET V-POS	0 ~ 34
			DET H-SIZE	0 ~ 60
			DET V-SIZE	0 ~ 34
		SENSITIVITY		0 ~ 10
		MOTION OSD		OFF/ON
		TEXT ALARM		OFF/ ON
		SIGNAL OUT		OFF/ ON
SYSTEM	SDI OUT			HD-SDI/ EX-SDI
	SDI FORMAT			1080_30p/ 1080_25p/ 720_30p/ 720_25p/ 720_60p/ 720_50p
	FREQ(NT/PAL)			60Hz(NTSC)/ 50Hz(PAL)
	CVBS OUT			OFF/ ON
	LANGUAGE			ENG/ CHINESE/ CHINESE(S)/ JAPANESE/ KOR
	CAM TITLE			0 ~ 9, A ~ Z, blank
FACTORY DEFAULT				Reset to factory setting
RETURN				Return to previous menu
EXIT				Exit SETUP menu