

AF zoom HD camera(MN1P Specification)

Series NO.	MN1P / 2.1MEGA WDR 1080p HD-SDI/CVBS Camera
IMAGE SENSOR	1/3" Megapixel CMOS WDR Sensor (Rolling shutter)
CCD TOTAL PIXELS	2010(H) X 1108(V) approx. 2.1M pixel
EFFECTIVE PIXELS	1944(H) X1092(V)
SCANNING SYSTEM	Progressive scan
SYNC SYSTEM	Internal
MINIMUM	0.05 Lux @ AGC on /Sens-up off/ F1.2
RESOLUTION	Over 1000 TV-Line
ICR-Set CONTROL	auto, trigger in
GAIN CONTROL	Auto
EXPOSURE CONTROL	Auto, manual, IRIS priority
S / N RATIO	48dB (TYP) (Gamma, Aperture, AGC OFF)
AUTO IRIS	AES / ALC-DC lens
VIDEO FORMATOUT	1080P 25/30HZ
DNR control	Off/Low/Middle/High
DIGITAL VIDEO OUT(HDV)	HD-SDI
ANALOG VIDEO OUT	CVBS
GAMMA CORRECTION	0.45 / 0.5 / 0.55 / 0.6 / 0.65
DIGITAL ZOOM	1.0~8.0
PROTOCOL	RS-485(Optional function) Pelco
Function	Brightness/Sens-up/Eclipse/BLC/WDR/WhiteBal ATW/ WhiteBal ATWEct/
OPERATION	-10°C TO 50°C
OPERATIONAL	within 85% RH
POWER SUPPLY	DC12V±1V / 200mA

Caution for Installation :



1. Avoid places where there is direct sunlight. When using the camera outside.
2. Be careful, never let any water in this equipment.
3. Do not directly touch the Sensor device. If necessary, use a soft cloth moistened with alcohol to wipe off the dust.
4. When the camera installs in dust or wet environment, please puts into the camera housing.
5. Be extra careful not to shake the camera.
6. Avoid places where temperatures exceed 50 °C or more.
7. Be extra careful not to mistake plug in connect.
8. The camera are only operated with regulative adaptor DC 12V, AC to DC non-regulative adaptor may cause camera

Family product line up :

For HD-SDI repeater application : Model name: MHD-61S2S-P, allows extending HD-SDI transmission distance, built-in Power and Ctrl signal(Up-Control communication) are via coaxial cable.

For converter application : Model name: MHD-61S2SH, converts HD-SDI signal to HDVI (Hi-definition multimedia interface)

MN1P Specification

OSD MENU				
AF SET [↵]	AF MODE	AUTO/MANUAL		
	SCANNING	HALF/FULL		
	ONEPUSHING	ON 		
	SYNC TDN	ON/OFF		
	INITIAL	ON 		
	LENSCTRL	BACK KEY/PELCO		
	RETURN [↵]			
LENS ALC [↵]	MODE	INDOOR/OUTDOOR/DEBLUR		
	RETURN [↵]			
LENS AES [↵]	MODE	NORMAL/DEBLUR		
	RETURN [↵]			
EXPOSURE [↵]	BRIGHTNESS	0~20		
	SHUTTER	AUTO		
		MANUAL [↵]	1/25 (30) 、 1/50(60) 、 1/100(120) 、 1/240 、 1/500 、 1/1000 、 1/2000 、 1/4000 、 1/8000 、 1/16000 、 1/30000 RETURN [↵]	
		FLICKER		
	SENS-UP	OFF/x2 、 x4 、 x8 、 x16 、 x32		
	AGC	0~20		
	RETURN [↵]			
BACKLIGHT	OFF			
	ECLIPSE	LEVEL	0~20	
		MODE	ALL DAY/NIGHT ONLY	
		RETURN [↵]		
	BLC	H-POS	0~20	
		V-POS	0~20	
		H-SIZE	0~20	
V-SIZE		0~20		
RETURN [↵]				
WDR	WEIGHT	LOW/MIDDLE/HIGH		
RETURN [↵]				
DAY&NIGHT	AUTO [↵]	IR LED	ON/OFF	

※The specifications and appearance of the product may change without notice.

ANTI-SAT. 0~20
 AGC THRES 0~20
 AGC MARGIN 0~20
 DELAY LOW/MIDDLE/HIGH
 RETURN↵

COLOR

B&W↵

IR LED ON/OFF
 ANTI-SAT. 0~20
 RETURN↵

EXTERN↵

IR LED ON/OFF
 ANTI-SAT. 0~20
 EXTERN S/W LOW/HIGH
 D→N LEVEL 0~20
 N→D LEVEL 0~20
 DELAY LOW/MIDDLE/HIGH
 RETURN↵

WHITH BAL AUTO

AUTOext

PRESET 

MANUAL↵

KELVIN LOW/MIDDLE/HIGH
 R-GAIN 0~20
 B-GAIN 0~20
 RETURN↵

DNR LOW/MIDDLE/HIGH

IMAGE↵

SHARPNESS 0~10
 GAMMA 0.45/0.5/0.55/0.6/0.65
 COLOR GAIN 0~20
 MIRROR OFF/ON
 FLIP OFF/ON
 D-ZOOM 1.0~8.0X
 XDR LOW/MIDDLE/HIGH
 SHADING OFF
 ON↵ WEIGHT 1~100%
 RETURN↵
 PRIVACY OFF
 ON↵ ZONE NUM 0~15
 ZONE DISP ON/OFF
 H-POS 0-60
 V-POS 0-40
 H-SIZE 0-60
 V-SIZE 0-40

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Y LEVEL 0~20
 CR LEVEL 0~20
 CB LEVEL 0~20
 RETURN↵

RETURN↵



MOTION OFF

ON↵ SENSITIVITY 0~20
 WINDOW TONE 0~6
 WINDOW USE 0~3
 WINDOW ZONE OFF/ON
 DET H-POS 0~60
 DET V-POS 0~40
 DET H-SIZE 0~60
 DET V-SIZE 0~40
 ALARM ON/OFF
 RETURN↵


SYSTEM↵ COM↵ CAM ID 1~255

BAUDRATE 2400/4800/9600/57600/115200
 RETURN↵

IMAGE RANGE FULL
 COMP
 USER↵ OFFSET 0~20
 RETURN↵

HDV MODE 1080P/720P(CROP)
 FRAME RATE 25/30 FPS
 CVBS NTSC/PAL
 LANGUAGE ENG/CHN/CHN(S)/JPN/KOR
 COLORBAR OFF/ON
 CAM SETUP↵ SHADING DET ON 
 DEFECT DET ON↵ THRESHOLD 0~255
 DEFECT DET 

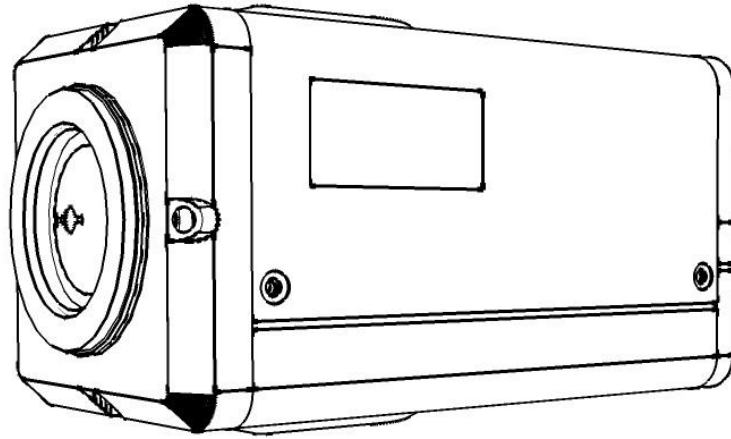
DEFAULT SET↵
 CAM VERSION
 RETURN↵

RESET ON 
 RETURN↵

EXIT

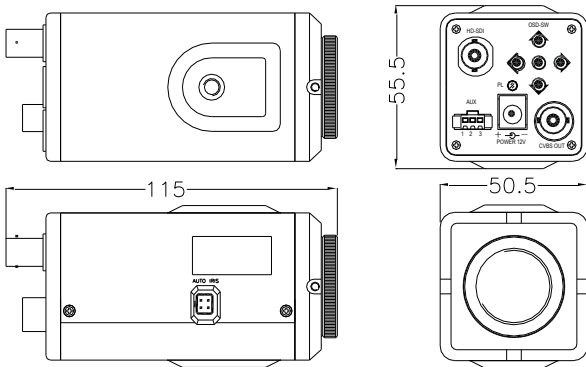
MN1P Specification

MHD-63MN1PH-DIRAF



Built-in Auto Focus and 3X Optic zoom

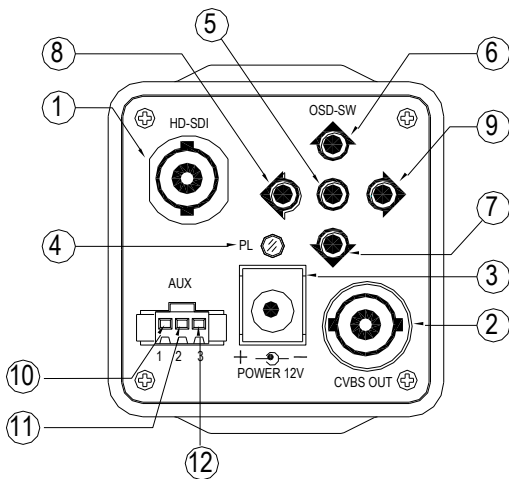
Dimension (Unit : mm / ±0.3mm)



- HD-SDI & CVBS Video out
- Power: DC 12V/300mA
- Features : MN1 PELCO functions

MEGA PIXEL LENS :

- Mega-pixel Vari-focus: 3~10mm DC IRIS
- Day/ Night IR-Cut removable
- ICR-SET is controlled by AGC or external
- ZOOM and FOCUS is MOTORS DRIVE



Rear board definition :

- | | | |
|---|-----------------------|-----------------------|
| ① | HD-SDI OUT | Default at 1080P_30 |
| ② | CVBS OUT | Default at NTSC |
| ③ | POWER IN DC-JACK | (+12V) |
| ④ | POWER ON INDEX LED | |
| ⑤ | OSD-SW "ENTER" | |
| ⑥ | OSD-SW "UP" | Tele*1 |
| ⑦ | OSD-SW "DOWN" | Wide*1 |
| ⑧ | OSD-SW "LEFT" | Far*1 |
| ⑨ | OSD-SW "RIGHT" | Near *1 |
| ⑩ | AUX 1 : " 485+ " | |
| ⑪ | AUX 2 : " 485- " | |
| ⑫ | AUX 3 : " Day/Night " | Default at EXTERN S/W |

*1 : OSD(On screen display)mode is off