

User Manual

1/2.8" HD Camera, Day&Night, 1920x1080, WDR, C/CS, 12/24V

MPC-520000M0A

Safety Precaution

- To prevent fire or shock hazard, do not expose the unit to rain or moisture.
- To prevent electric shocks and risk of fire hazards, do NOT use other than specific power source.





The symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The symbol is intended to alert the user to the presence of important operating and maintenance(servicing) instructions in the literature accompanying the unit.

• Warning :

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Caution :

Any changes or modifications in construction of this device which are not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Mains power quality should be that of a typical commercial environment. If the user of the model requires continued operation during power mains interruptions, it is recommended that the model be powered from an uninterruptible power supply (UPS) or a battery.

Safety Precaution

NOTICE

- The image used in this instruction manual are processed to help comprehension and may differ from actual video of the camera.
- Avoid installing areas where has shock or vibration which results in the problems.
- Pay attention to safety when laying the connection cable and observe that the cable is not subjected to heavy loads, kinks or damage and no moisture can get in.
- The warranty becomes void if repairs are undertaken by unauthorized persons.
- Maintenance and repair have to be carried out only by authorized service centers.
- · Use only a mild detergent to clean the housing.
- The camera should never be operated beyond the technical specifications.
 This can lead to destruction.
- The camera should never be operated in water.

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Features

Key Features

- Full-HD 2Mega pixel CAMERA, 1920x1080(30p/25p)
- · The best low light performance with SONY's STARVIS sensor
- Video output EX-SDI1.0,2.0 / HD-SDI / TVI mode / AHD mode / CVI mode or CVBS Selectable
- TVI mode / AHD mode / CVI mode, Video Transmission Distance over Coax.: 500M
- · CS lens mount supported
- · Automatically removable IR Cut filter by Dual filter switcher
- · Sensitivity of Color 0.08 Lux, B/W 0.005 Lux
- True WDR (Wide Dynamic Range), 30/25fps
- · ROI (Region of Interest) WDR mode:
- Proper compensation of exposure for each inside and outside of interested area.
- Better contrast and No motion ghost effect
- Improved Noise figure with the enhanced 3D-NR
- · FOCUS ASSIST for Error free focus adjustment
- Motion Detection, Privacy Mask, Defog, Sens-up(~x32), ACE(D-WDR), Sharpness, Mirror/Flip, BLC/HLC, Anti-Saturation, Title Set
- Top performance at low light sensitivity (Sens-up On)
- Selectable Digital output 1080p or 720p
- · OSD Menu & Video Sub-out port for easy installation & maintenance
- · Circuit protection against faulty connection in power polarity
- · Isolated power supply against ground loop problem
- UTC control through HD-TVI (Pelco-C, Hikvision) / AHD
- Fine Back focus adjustment
- AC24/DC12V Dual power

Composition



Box Camera



Dust Protection Cap (1pc)



C-mount adaptor (Option)



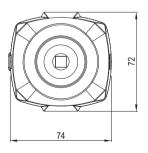
Torque Wrench: 3mm (1pc)

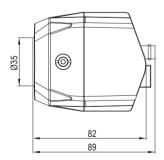


Operating Instruction

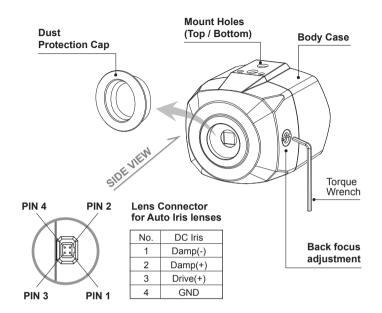
Dimensions

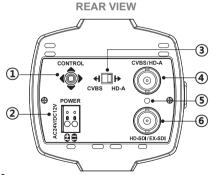
(unit:mm)





Part Names





- ① OSD Control Joy stick
- ② Power input terminal (AC24V/DC12V)
- ③ Video format selection Switch
- CVBS/HD-Analog output connector
- ⑤ Power LED
- HD-SDI/EX-SDI output connector

CAUTION

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Installation Instructions

Installation and commissioning Instructions

- · Make sure the power is removed before the installation.
- Follow the order for applying power.
 First connect the low voltage (DC12V or AC24V), then plug the DC or AC adapter to DC or AC outlets to avoid an improper reset from power jitter and a damage from the surge voltage when no load.
- 1. Remove the dust protection cap from the lens mount.
- 2. Screw the lens onto the camera firmly.
- 3. Plug the lens plug into the lens connector on the side of camera case.
- 4. Mount the camera to the wall or ceilling with a corresponding mounting bracket through the camera mount holes (1/4" thread insert) on its top or bottom.



- Care should be taken the cable is NOT to be damaged, kinked or exposed in the hazardous area
- Do not expose the camera directly to a strong light source such as the sun or spot light.

Setting the back focus adjustment

The proper back focus adjustment is essential for the motorized zoom lens to get the all time sharp focus when zooming in and out by the remote control. For easier and better adjustment, this camera provides FOCUS ASSIST menu which prevents from the mistake of the focus adjustment.

With enabling FOCUS ASSIST menu, follow the procedure to get the best back focus adjustment.

- Set the lens for the zoom position to WIDE and the focus position to INFINITE(∞).
- Shoot the object departing from about 10Meters.
- Adjust 'Back focus adjustment' with 3mm L-wrench until the optimum focus is achieved.
- 4. Set the lens for zoom position to TELE and adjust the lens focus for best focus.
- Set the lens for zoom position to WIDE again, check if the focus adjustment was the best. If not, re-adjust 'Back focus adjustment' slightly.

Power Supply Connections

Camera can work with either AC24V or DC12V, dual voltage power. Primary and secondary grounds are completely isolated to avoid the possible ground-loop problems

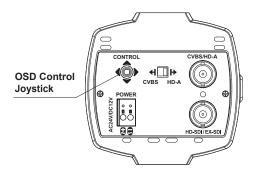
Using OSD Control Controller

Setup menu can be accessed and controlled by OSD control joystick on the rear of the camera unit. Five commands are available with the joystick. The design of OSD could be different according to the Models.

Description of the OSD control operation

- 1) SET (•): Access to the menu or enter the setting.

 To enter the main menu, press the Set Key down.
- UP/DOWN (▲/▼): Choose the desired sub-menu and to move the cursor up or down.
- LEFT/RIGHT (◄/►): Set up the value of the selected menu. Used to adjust the desired menu selection and to move the cursor left or right.
- 4) ' 9' denotes the long press down straightly for about 2 seconds



- MANALOG OUT0 should be set to TVI MODE, AHD MODE or CVI MODE to get CVBS video in sub-out. If it is set to CVBS, there is no CVBS video in sub-out port. (SYSTEM> OUTPUT> ANALOG OUTPUT0)
- If CVBS video is enabled through ANALOG OUT0 or Sub-out port, WDR and 3D-NR functions are disabled in all video outputs.
 It should be considered when installer adjusts the video with installation monitor via CVBS video signal.

OSD menu Table

MENU	SUB MENU			COI	NFIGURA	ATION		
LENS	DC	MODE (INDOOOR, OUTDOOR, DEBLUR)				LUR)		
	MANUAL							
FOCUS Ast.	ON, OFF							
EXPOSURE	BRIGHTNESS	0~20						
	SHUTTER	AUTO MODE (INDOOR, OUTDOOR, DEBL					UTDOOR, DEBLUR)	
		MANUAL (SPEED)		1/500(400), 1/1000(800),), 1/120(100), 1/250(200), 00), 1/2000(1600), 1/4000 , 1/15000(12800), 1/30000		
		FLICKERL	ESS					
	SENS-UP	OFF, x2, x	4, x8, x	(16,)	k 32			
	AGC	0~10						
BACKLIGHT	OFF							
	HLC	LEVEL, CO	OLOR	DR				
	BLC	H/V-POS,	H/V-POS, H/V-SIZE					
	WDR			ROI			WINDOW ZONE/USE, H/V-POS, H/V-SIZE	
				NORMAL				
		WEIGHT MIDDLE, HIGH, LOW			V			
DAY & NIGHT	EXTERN	SMART IR	R, ANTI	-SAT	., DELAY,	IR LE	D CTL (AUTO, OFF)	
	AUTO	SMART IR, ANTI-SAT., AGC THRES, AGC MARGIN, DELAY						
	COLOR							
	B&W	SMART IR	R, ANTI	-SAT				
COLOR	AWB	AUTO, AU	TOext,	PRE	SET, MA	NUAL	(C-TEMP, R/B-GAIN)	
	COLOR GAIN	0~20					_	
3D-NR	OFF, LOW, MIDD	LE, HIGH						
IMAGE	SHARPNESS	MAIN OUTPUT	ANALOG OUT0		ANALOG	OUT0	TVI MODE, AHD MODE, CVBS, CVI MODE	
					TVI MOD	E	0~10	
					AHD MO	DE	0~10	
					CVI MOE	DΕ	0~10	
		ANALOG	.OG	ANALOG	OUT1	CVBS		
			OUT1	I	SDI&CV	BS	0~10	
				SDI OUTF	PUT	SDI OUT		HD-SDI, EX-SDI 1.0, EX-SDI 2.0, OFF
					SDI&CV	BS	0~10	

	I				
IMAGE	GAMMA	0.45, 0.55, 0.65, 0.75			
	MIRROR	OFF, ON			
	FLIP	OFF, ON			
	ACE	OFF, LOW, MIDDLE, HIGH			
	DEFOG	OFF, ON	MODE (AUTO, MANUAL)		
			LEVEL (LOW, MIDDLE, HIGH)		
	PRIVACY	OFF, ON	ZONE NUM, ZONE DISP, H/V-POS, H/V-SIZE, Y LEVEL, CB/CR LEVEL, TRANS		
MOTION	OFF, ON	DET WINDOW	WINDOW ZONE, WINDOW USE, DET H/V-POS, DET H/V-SIZE		
		DET TONE	0~4		
		MDRECT FILL	OFF, ON		
		SENSITIVITY	0~10		
		MOTION OSD	OFF, ON		
		TEXT ALARM	OFF, ON		
SYSTEM	OUTPUT	SDI OUTPUT	HD-SDI, EX-SDI 1.0, EX-SDI 2.0, OFF		
		ANALOG OUT0	TVI MODE, AHD MODE, CVBS, CVI MODE		
	RESOLUTION	1080 30P(25P), 7	20 30P(25P), 720 60P(50P)		
	TV SYSTEM	US(NTSC), EU(PAL)			
	LANGUAGE	ENG, CHN(S), CHN, JPN, KOR, GER			
	CAM TITLE	OFF, RIGHT UP, LEFT DOWN			
	RESET	ON			
EXIT	SAVE, CANCEL	-			

OSD menu Startup

Press the 'OSD menu SET key' down to access the setup menu mode.

- EXIT: Enters 'EXIT' menu with save current setting or without save.
- · RETURN: Returns to the previous menu.

MENU VO. XX					
1. LENS 2. FOCUS Ast. 3. EXPOSURE 4. BACKLIGHT 5. DAY&NIGHT 6. COLOR 7. 3D-NR 8. IMAGE 9. MOTION A. SYSTEM B. EXIT	OFF J OFF SAVE J SAVE J				

1. LENS

Lens can be selected either DC or MANUAL lens.

It should be selected according to lens type.

- **1-1. DC**: DC is for the best image when DC Auto iris Vari-focal lens is installed.
 - MODE: Selects MODE according to lighting condition.
 - INDOOR: Optimized of indoor environment.
 OUTDOOR: Optimized of outdoor environment.
 - DEBLUR: It enables to reduce the blur in a certain indoor environment.
 - DEBLUR: It enables to reduce the blur in a certain indoor environment.
 Noise or color rolling can be increased.
- **1-2. MANUAL**: MANUAL is for the best image when Fixed lens is installed.

2. FOCUS ASt.

Focus Assist function is useful to set the focus on video.

There are three status bars for short range, middle range and long range. Shows how exactly focus is set. When green bar with yellow bar appears on columns, try the lens focus to NEAR or FAR. The maximum yellow bar indicates the best focusing position.

3. EXPOSURE

3-1. BRIGHTNESS

Adjusts the brightness of video (0~20).

3-2. SHUTTER

Selects AUTO or set manually.

If SHUTTER set to MANUAL modes. SENS-UP mode is inactivated.

- 3-2-1. AUTO: Optimizes the video level by controlling the iris and the shutter speed automatically.
 - MODE: Selects MODE according to lighting condition.
 - INDOOR: Optimized of indoor environment.
 - OUTDOOR: Optimized of outdoor environment.
 - DEBLUR: It enables to reduce the blur in a certain indoor environment.
 Noise or color rolling can be increased.
- 3-2-2. MANUAL: 1/30(1/25), 1/60(1/50), 1/120(100), 1/250(200), 1/500(400), 1/1000(800), 1/2000(1600), 1/4000(3200), 1/8000(6400), 1/15000(12800), 1/30000(25600) Shutter can be set to fix.
- 3-2-3. FLICKERLESS: Flicker is used to remove the flickering on screen due to differences in light and electric frequencies.

3-3. SENS-UP

The brighter video can be obtained by increasing the exposure time in the night with SENS-UP. It can be set to Off, x2, x4, x8, x16 or x32.

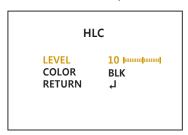
Higher setting can get the brighter video but the slower frame rates with more white pixels.

3-4. AGC

AGC(0~10) amplifies the video gain for brighter video but noise and white pixel accordingly.

4. BACKLIGHT

Compensates the video image to cut out the highlight area with mask or control the contrast of video. It can be set the compendation level or areas.

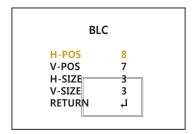


4-1. HLC (High Light Compensation)

Cuts out the highlight area with mask and excludes it from compensation.

- 4-1-1. LEVEL (0~20): Sets the HLC level. It determines the video level that starts cutting out. Lower setting starts the cut out at lower level. The cut out area is masked with selected color.
- 4-1-2. COLOR: Select mask color from 9 colors.

 Black, White, Yellow, Cyan, Green, Magenta, Red, Blue and Customize.



4-2. BLC (Backlight Compensation)

This function is used to brighten an image in the foreground with a highly light area behind it such as sunlight, limiting the affect of silhouette. BLC has a target window for compensation and its size and position can be set by H-POS, V-POS, H-SIZE and V-SIZE.

4-2-1, H-POS, V-POS:

Sets the position of BLC area to move vertically and horizontally.

4-2-2. H-SIZE, V-SIZE:

Sets the size of BLC area to move vertically and horizontally.

WDR		ROI	
MODE ROI U WEIGHT MIDDLE RETURN U	>	WINDOW ZONE WINDOW USE H-POS V-POS H-SIZE V-SIZE RETURN	0 ON 469 194 739 688 ↓J

4-3. WDR (Wide Dynamic Range)

WDR is extended the gain range of the video that is mostly useful if camera takes a simultaneous picture of both indoor and outdoor nearby window. It improves contrast of the picture in outdoor scenery as well as indoor. Video outputs image processed from two images by dual shutter (long and short shutter) in a field to provide the best dynamic range. Highlight area is compensated by the short shutter and dark area is compensated by the long shutter. Final video may have less contrast compared to the conventional camera which does not have WDR function.

- 4-3-1. MODE: Selects WDR mode normal or ROI setting.
 - NORMAL: WDR function applies full screen.
 - ROI (Region Of Interest): Sets specific area of WDR by window setting.
 Select window zone number from 0 to 3 and window use set to on.
 Then the window zone can be modified position and size.
- 4-3-2. WEIGHT : LOW, MIDDLE, HIGH Selects the WDR value that you set the target area in MODE.
 - If CVBS video is enabled through ANALOG OUT0 or Sub-out port, WDR and 3D-NR functions are disabled in all video outputs.
 It should be considered when installer adjusts the video with installation monitor via CVBS video signal.

5. DAY & NIGHT

DAY/NIGHT is used to control the setting during day-time and night-time operation. Select the mode according to the light condition and the camera types.

MENU VO. XX					
1. LENS 2. FOCUS Ast. 3. EXPOSURE 4. BACKLIGHT 5. DAY&NIGHT 6. COLOR 7. 3D-NR 8. IMAGE 9. MOTION A. SYSTEM B. EXIT	DC J OFF AUTO J J MIDDLE J OFF SAVE				

5-1. EXTERN (Not Available)

DAY or NIGHT is determined by the built-in light photo sensor. Camera with IR LED must be set to EXTERNAL.

5-1-1. SMART IR

: SMART IR can be set to reduce the saturation by the strong IR illumination in the night in any menu of EXTERN, AUTO and B/W(NIGHT). Set to ON, SMART IR is enabled and ANTI-SAT. level is controlled.

5-1-2. ANTI-SAT. (Available only with the SMART IR is ON)

: Sets the anti saturation level 0~20. Setting high level avoids the saturation strongly but the corners will be darker accordingly.

5-1-3 DFLAY

: D→N DELAY is time in second while camera maintains its status before Day to Night switches. DELAY can avoid the unwanted/frivolous switching by a short term lights such as light from the passing car. Sets delay term low, middle or high.

5-1-4. IR LED CTL

: IR LED Control(AUTO/OFF) is available with IR LED model only.

If it is set to OFF, IR LED will be turned OFF but DAY or NIGHT is still determined by the built-in light photo sensor.

5-2. AUTO

Used when DAY or NIGHT is determined by light level through the lens and DAY from/to NIGHT is switched automatically by the scene brightness.

It can be controlled the AGC threshold level, AGC margin and delay time.

DAY&NIGHT

5-2-1. SMART IR (Available only with the built-in IR-LED model)

: SMART IR can be set to reduce the saturation by the strong IR illumination in the night in any menu of EXTERN, AUTO and B/W(NIGHT). Set to ON, SMART IR is enabled and ANTI-SAT. level is controlled.

5-2-2. ANTI-SAT. (Available only with the SMART IR is ON)

: Sets the anti saturation level 0~20. Setting high level avoids the saturation strongly but the corners will be darker accordingly.

5-2-3. AGC THRES

: AGC(Auto Gain Control) is a threshold level which determines to switch DAY from/to NIGHT in AUTO mode. Higher value makes the camera switch DAY from/to NIGHT at bright illumination.

5-2-4, AGC MARGIN

: Sets the gap level switching from/to DAY(color) or NIGHT(B/W).

5-2-5. DELAY

: D→N DELAY is time in second while camera maintains its status before Day to Night switches. DELAY can avoid the unwanted/frivolous switching by a short term lights such as light from the passing car. Sets delay term low, middle or high.

5-3. COLOR

The camera is always in COLOR mode.

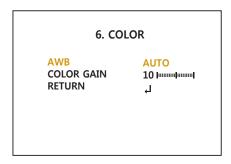
Forcibly DAY/NIGHT is disabled and outputs color video.

5-4. B/W

The camera is always in B/W mode.

Forcibly removes IR cut filter and switches to B/W regardless of light level.

6. COLOR



6-1. AWB (Auto White Balance)

Automatically tracks the changes of color temperature and continuously adjusts the white balance. AUTO, AUTOext, PRESET and MANUAL modes are available.

- 6-1-1. AUTO: Optimized for Indoor installation and more easily compensates AWB for low color temperature such as incandescent lights.
- 6-1-2. AUTOext: Optimized for outdoor sunlight applications and more easily compensates AWB for high color temperature such as sunlight.
- 6-1-3. PRESET: AWB is performed only whenever is pressed.
- 6-1-4. MANUAL: White balance is fixed to the settings by Color-Temperature Red-GAIN and Blue-GAIN. It can be used only when the color temperature does not vary.

6-2. COLOR GAIN

Sets the color gain control level 0~20.

7. 3D-NR (Digital Noise Reduction)

DNR function improves picture quality by filtering out signal noise which is generated under the low light conditions. Sets off, low, middle or high level. 3DNR(3-dimensional noise reduction) which reduces the noise by the multi frames. It is effective at low light. Setting high is strength of noise reduction but the result may occur in loss of sharpness and the tail effect of a comet.

MENU VO. XX

1. LENS DC 4 2. FOCUS Ast. OFF 3. EXPOSURE OFF 4. BACKLIGHT 5. DAY&NIGHT L OTUA 6. COLOR 7. 3D-NR **MIDDLE** 8. IMAGE OFF 9. MOTION A. SYSTEM SAVE 4 B. FXIT

If CVBS video is enabled through ANALOG OUT0 or Sub-out port, WDR and 3D-NR functions are disabled in all video outputs.
It should be considered when installer adjusts the video with installation monitor via CVBS video signal.

8. IMAGE

8. IMAGE

SHARPNESS	٦
GAMMA	0.55
MIRROR	OFF
FLIP	OFF
ACE	OFF
DEFOG	OFF
PRIVACY	OFF
RETURN	4

SHARPNESS

MAIN OUTPUT ANALOG OUT0	ANALOG OUTO TVI MODE
SDI&CVBS	5
CVI MODE	5
TVI MODE	6
AHD MODE	7
RETURN	Ļ

8-1. SHARPNESS

Sets the Sharpness level 0~10. Increases or decreases the sharpness of the picture. Too much sharpness can make image harsh and show more noise as well as line flicker at the edge of object in the picture.

8-2. GAMMA

Adjust gamma level of video.

8-3. MIRROR

The Video is reversed left and right if it turns ON.

8-4. FLIP

The Video is reversed upside down if it turns ON. When the video is fliped by Vertical, then the joystick directions are reversed accordingly. It is very useful when a camera in installed in upside

8-5. ACE

Improves the visibility for the high bright area and the dark area by compensating the video gain. Care should be taken to select low, middle or high level, because video may lose its quality in some environments by the over compensation. Video noise can be increased in the dark area accordingly.

8-6. DEFOG

Enhance the foggy video according to status of scene. Video quality can be less in normal environments. Sets AUTO or MANUAL mode.

8-6-1 MODF ·

- AUTO : Enhance the foggy video automatically according to status of scene.
- MANUAL: Sets to enhance the foggy video manually regardless of status of scene.
- 8-6-2. LEVEL : Sets Low, Mid or High.

Video quality can be less in normal environments.

8-7. PRIVACY

Sets ON/OFF for enabling/disabling PRIVACY mask. 16 privacy areas are available and each area is programmable in size, color, position and transparency.

- 8-7-1. ZONE NUM: Selects mask zone number from 0 to 15 to be adjusted.
- 8-7-2. ZONE DISP: Displays OFF/ON for the mask area which you selected zone.

8-7-3. H-POS, V-POS:

Adjusts the mask area H, V position which you selected zone.

PRIVACY				
ZONE NUM ZONE DISP H-POS V-POS H-SIZE V-SIZE Y-LEVEL CB LEVEL CR LEVEL TRANS RETURN	0 ON 12 2 3 3 10			

8-7-4. H-SIZE, V-SIZE:

Adjusts the mask size using H, V direction which you selected zone.

- 8-7-5. Y LEVEL : Adjusts the mask color by Y LEVEL. (0: black ~ 20: white)
- 8-7-6. CB LEVEL: Adjusts the mask color by CB LEVEL. (0: yellow ~20: blue)
- 8-7-7. CR LEVEL: Adjusts the mask color by CR LEVEL. (0: Green ~20: magenta)
- 8-7-8. TRANS.: Selects transparency rate for the mask area from 0 to 3
 - 0 : Privacy mask is not transparent.
 - 1 : Privacy mask is 25% transparent.
 - 2 : Privacy mask is 50% transparent.
 - 3 : Privacy mask is 100% transparent.

9. MOTION

4 motion detection areas are available and each area is programmable in size and location. The motion can be detected the changes in the motion areas and displays the results in blocks and/or a text message.

- 9-1. DET WINDOW: Sets the MOTION DETECTION areas on screen.
- 9-1-1. WINDOW ZONE: Set the detection zone number from 0 to 3.
- 9-1-2. WINDOW USE: Sets ON/OFF motion detection area which you selected. If set to ON, It can be adjusted position and size.
- 9-1-3. DET H-POS, V-POS:

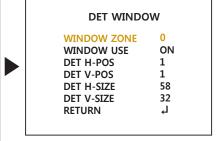
Adjusts the detection area H, V position which you selected zone.

9-1-4. DET H-SIZE, V-SIZE:

Adjusts the area size using H, V direction which you selected zone.

9. MOTION

DET WINDOW DET TONE MDRECT FILL SENSITIVITY MOTION OSD TEXT ALARM RETURN	2 ON 5 humuhumu OFF OFF
RETURN	ل



9-2. DET TONE

Sets the detection zone 0 to 4 display types which window use setting ON.

- Set the 100% opacity level of video background except detection window zone.
- Set the 50% opacity level of video background except detection window zone.
- 2 : Set the 25% opacity level of video background except detection window zone
- 3: Video background image is same as detection window zone.
- 4: Detection window zone is displayed with box line

9-3. MDRECT FILL

Sets the motion display type when the motion is detected on video.

Setting ON is displayed red solid box type.

Setting OFF is displayed red outline box type.

9-4. SENSITIVITY

Sets the detection sensitivity for motion (0~10). High value increases the sensitivity to detect the small motion easily. Too low value will cause the erratic detection by the tree leaves or the light level changes.

9-5. MOTION OSD

Sets ON or OFF to display the motion results.

9-6. TEXT ALARM

Setting ON enables to display a text message 'WINDOWS MOVING!!' or icon when the motion is detected.

A. SYSTEM

Sets the system related functions.

A. SYSTEM

al.

OUTPUT

RESOLUTION 1080 25P
TV SYSTEM EU(PAL)
LANGUAGE ENG
CAM TITLE OFF
RESET ON

OUTPUT

SDI OUTPUT HD-SDI
ANALOG OUTO TVI MODE
RETURN

J

HD-ANALOG

MAIN OUTPUT ANALOG OUTO TVI MODE ANALOG OUTO Y GAIN 16 CB GAIN 65 CR GAIN 68 POSITION 128 BURST FREQ 128 108 BURST GAIN B&W BURST ON UTC TYPE Pelco-C 720 FX OFF RETURN L

A-1. OUTPUT: Selects the main video output.

A-1-1, SDI OUTPUT:

Selects the SDI output HD-SDI, EX-SDI 1.0, EX-SDI 2.0, OFF

A-1-2. ANALOG OUT0:

Selects HD-ANALOG modes TVI MODE, AHD MODE, CVI MODE or CVBS. It can be controlled Y-Gain, CB/CR-Gain, Position, Burst and etc.

Please set ANALOG OUT0 to TVI MODE, AHD MODE or CVI MODE if CVBS video is necessary through sub-out port.

If ANALOG OUT0 is set to CVBS, there is no CVBS video through sub-out port and sub-out port outputs CVBS video only.

If CVBS video is enabled through ANALOG OUT0 or Sub-out port, WDR and 3D-NR functions are disabled in all video outputs.
It should be considered when installer adjusts the video with installation monitor via CVBS video signal.

A-2. RESOLUTION

Select the video resolutions, 1080P/720P are available. 1080P outputs 1920x1080 video at the frame rate of 30P/25P. 720P outputs 1280x720 video at the frame rate of 60P/50P.

A-3. TV SYSTEM

Selects HDTV standards for analog video output switches to 60HZ, US(NTSC) or 50HZ, EU(PAL) accordingly.

A-4. LANGUAGE

6 languages are available for OSD menu.

English, Chinese, Chinese(S), Japanese, Korean, German.

A-5. CAM TITLE

Camera title(name) can be set and edited with alphanumeric characters. Select the camera title position 'LEDFT DOWN' or 'RIGHT UP' on the video. Then ◀,▶ moves the cursor and ▲,▼ choose a character to select it. The selected characters are added and displayed on the input line.



A-6. RESET : Loading Factory Default.

B. EXIT: Exits SETUP MENU and returns to the normal display.

B-1. SAVE: Save all the setting and exit the setup menu.

B-2. CANCEL: Exit the setup menu without save.

Specifications

ITEM	MPC-52C0000M0A
Imaging Sensor	1/2.8" Sony 2Mega pixel CMOS STARVIS Sensor
Effective Pixels	1920(H) x 1080(V) x 25p
Scan Frequency	25Hz(V), 18.75Khz(H) / Progressive
Video Format	HD] 16:9, 1080p@25fps
	CVBS] 16:9 (PAL)
Video Output	EX-SDI1.0, 2.0 /HD-SDI / TVI mode/ AHD mode/ CVI mode/ CVBS
Synchronization	Internal
Video Resolution	1920x1080 (30p/25p)
Min.Illumination	Color: 0.08 Lux, B/W: 0.005 Lux
S/N Ratio	More than 50dB (AGC Off)
Lens Type	C/CS lens mount supported
Exposure	Brightness / Shutter / Sens-up / AGC
DAY / NIGHT	TDN by dual filter switcher, EXTERN / AUTO / COLOR / B&W
Auto White Balance	AUTO / AUTOext / PRESET / MANUAL
WDR	True WDR by dual scan images in two frames at 30fps/25fps
ROI-WDR	Yes
DNR	3D-NR
Functions	ACE(D-WDR), Motion Detection, Privacy Mask, Defog, Sens-up (~x32), Sharpness, Mirror/Flip, BLC/HLC,Deblur, Anti-Saturation, Title Set
Remote Control	UTC by HD-TVI (Pelco-C, Hikvision) / AHD
OSD Language	English, Korean, Japanese, Chinese(S) / Chinese, German
Video Output	VBS 1Vp-p ± 10%, 75Ω
Operating Temp.	-10°C ~ +50°C (Humidity: 20%RH ~ 80%RH)
Operating Power	AC24V/DC12V, Circuit protection against faulty connection in power polarity. Isolated power supply against ground loop problem.
Housing	Aluminum Cast
Dimension	74mm(W)x72mm(H)x89mm(L) / About 300g

^(*) Design and specifications are subject to change for product improvements without prior notice.



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Videor E. Hartig GmbH Carl-Zeiss-Straße 8 63322 Rödermark/Germany Tel. +49 (0) 6074 / 888-0 Fax +49 (0) 6074 / 888-100 www.videor.com www.eneo-security.com

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