WDR Digital Sensor Mini Camera

Instruction Guide



▲ Fixed Lens



▲ Flat Pinhole Lens





▲ Conical Pinhole Lens ▲ Varifocal Fixed Iris Lens

■ Features

High Resolution color for crisp, clear video

· 690TVL Effective

Wide Dynamic Range (WDR)
The camera delivers clear, high
quality pictures even in backlight,
by increasing exposure in dark
areas while decreasing it in bright areas; a corrected image with clear details results.

120dB maximum dynamic range

DNR (Digital Noise Reduction)

The amount of low illuminance noise has been significantly reduced, and the signal-to-noise ratio (S/N ratio) as well as horizontal resolution, have been improved resulting in a clear and sharp image image even in low light.

Day & Night

The camera identifies whether it is day or night and automatically switches to the appropriate mode, depending on its environment. By day, the camera switches to color mode in order to maintain optimal color. At night, it switches to BAV mode so as to obtain better picture definition.

High Sensitivity for low-light

The built-in high sensitivity
PIXIM SEAWOLF Sensor enable
a clear image even at 0.1Lux

Motion Detection

Since the camera detects motion without any additional external sensor, you can monitor activity more efficient.

Programmable GAMMA Processing

OSD Control by coaxial cable via pelco coaxitron

Controlled by OSD Menu

The camera can be controlled by selecting text displayed on the monitor screen.

Additional Functions

SYNC (INT/LL), SENS-UP, FREEZE, FLIP (H/V-REV), D-ZOOM, SHARPNESS and PRIVACY functions are provided.

■ Components

1. COLOR MINI CAMERA



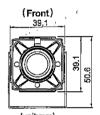
2. SCREWS



3. INSTRUCTION GUIDE



■ Dimensions

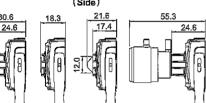


JGND JDC12V VIDEO VIDEO

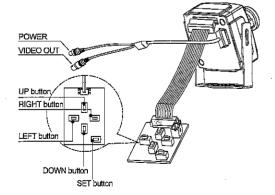
(Back)

(unitmm)

(Side)



■ Cable Connections



How to Use the Camera

■ Settings → Settings

Settings can be made using the 5 buttons located in the camera.



- 1. Press the SET button
- Settings can now be made. The SETUP menu is displayed on the monitor.



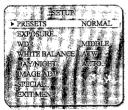
- 2. Select a menu item from the list available by using the UP and DOWN buttons.
- Funtions are selected using up and down buttons.
 The selected position is displayed in blue.



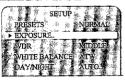
- 3. Set up a selected item by using the Left and Right buttons 4. To finish and save the settings, select EXIT and press the SET button.
 - Note)

• An item with the .. icon also has sub-menus. To select a sub-menu, press the SET button.

PRESETS:



- NORMAL : Normal environment.
 INDOOR : Indoor environment.
 OUTDOOR : Outdoor environment.
- **EXPOSURE**



How to Use the Camera

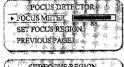
When the SETUP menu screen is displayed, select EXPOSURE by using the Up and Down buttons so that the arrow indicates EXPOSURE.



LENS: Using this function, you can control the screen brightness.



● FOCUS : To adjust the DC and VIDEO lens focus



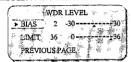


- EXPOSURE MODE: To select the number of fields and number of exposure cycles. - 60î/30p selectable
- AGC (AUTO GAIN CONTROL): In the dark situation, the higher the gain level, the brighter the screen but the higher the noise.
 OFF/LOW/MIDDLE/HIGH selectable
- DNR (Digital Noise Reduction): The level of background noise in low light decreases automatically as the level of gain changes.
 OFF / LOW / MIDDLE / HIGH selectable
- BLC: To optimize the scene when there is a strong backlight behind the object.
 - ON / OFF selectable
 - ADVANCED BLC
- COLOR ROLL: To control a detector that finds color fluorescent roll.
 OFF / LOW / MIDDLE / HIGH selectable
- SENS-UP: When it is night or dark, the camera automatically detects
 the light level and maintains a clear picture if this mode is activated.
 -2X, 4X, 8X, 18X, 32X, 64X
 OFF: Deactivates the SENS-UP function.



■ How to Use the Camera

WDR: When the image has simultaneous bright and dark areas, the Wide Dynamic Range makes both areas distinct,
 LOW / MIDDLE / HIGH / USER selectable



WHITE BALANCE

Use the White Balance function to adjust the screen colors.

- Ose the write galance function to adjust the screen colors.

 1. Position the cursor to point to WHITE BAL on the SETUP menu screen, select using the Up and Down buttons.

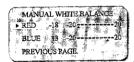
 2. Select the desired mode using the Left and Right buttons.



¥Select one of the following 5 modes, as appropriate.

- ATW: The ATW mode continuously monitors.
- INDOOR: Select when the color temperature is between 4000 K and 8500 K
- OUTDOOR: Select when the color temperature is between 2000 'K and 11000'K
- AWB: To obtain the optimum state under the current luminance levels, direct the camera to point toward a sheet of white paper and press the SET button. If the environment changes, including the light source, the white balance will require re-adjustment.
- write palance with require re-adjustment.

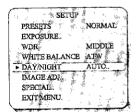
 MANUAL: Select to "fine-tune" the White Balance manually. Set White Balance fits using the ATW or AWB mode, Afterwards switch to MANUAL mode, fine-tune the White Balance and then pressthe SET button.



Note

- Under the following conditions White Balance may not work properly.
 In such cases, select the AWC mode.
- When the color temperature of the subject environment has a very high temperature range (e.g. clear sky, or sunset)
- When the ambient illumination of the subject is low.
- If the camera is directed toward a fluorescent light, or is installed in a place where illumination changes dramatically, the White Balance operation may become unstable.

DAY/NIGHT -



 AUTO: This camera has a function which automatically changes to the appropriate mode according to lighting levels. To set up the switching time and switching speed for the AUTO mode press the SET button.

How to Use the Camera



- COLOR: The picture is displayed in color.
- B/W: The picture is always displayed in black and white.

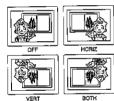
IMAGE ADJ.

When the SETUP menu screen is displayed, select IMAGE ADJ. using the Up and Down buttons.





- FREEZE : View still pictures. - OFF / ON selectable
- FLIP: OFF/HORIZ/VERT/BOTH selectable



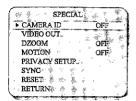
- SHARPNESS: The outline of the video image becomes cleaner and more distinctive as the level of SHARPNESS increases. If the level gose up excessively, however, in may affect the video image and generate noise.
 The available range of level is -8 8
- COLOR GAIN: To control the color level in the video.
 The available range of level is -8 8
- GAMMA: Users can change the gamma setting between 25 and 100

SPECIAL

When the SETUP menu screen is displayed, select 'SPECIAL' by using the Up and Down buttons so that the arrow indicates 'SPECIAL'.



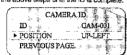
■ How to Use the Camera



- CAMERA ID: User can enter a unique name for the respective camera.
 The maximum length of the ID is ten characters.
 You can choose the ON and OFF with the selector. If you select ON, the entered camera ID is displayed at the selected position in the video picture (normal operation).
 - Please select the setup button whilein ON mode.
 - · Select the desired position with the selector.



- Move the cursor to the letter required by using the Set-Up button.
 Select an ID from A,B-Y,Z, a,b-y,z, 0,1-8,9 by using the LEFT and RIGHT buttons.
 Repeat the above steps until the ID is complete.



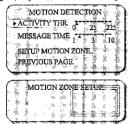
- Select the position where the ID is to be displayed by using the LEFT and RIGHT buttons.
- VIDEO OUT: Move the cursor to select the video system. -VIDEO STANDARD ; You can control NTSC / PAL, Video level, Sync level, Burst level.



DZOOM: Digital P/T/Z are used to create a zoom lens effect.
 Zoom Factor (1X to 4X), Pan(±100%, center of Image can be moved to left and right edges of screen), Till(±100%, center of Image can be moved to top and bottom edges of screen)



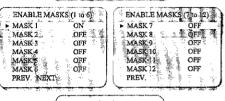
MOTION: This product has a feature that allows you to observe movements of objects in on the screen, hence a single individual can conduct supervision efficiently. The camera detects an objects movement by sensing disparity of outline, and level of brightness and color.



■ How to Use the Camera

- White: MOTION ZONE Position movement Green: MOTION ZONE Size enlargement Red: MOTION ZONE Size reduction
- For MOTION ZONE Confirm, long press SET button
- PRIVACY SETUP : Hide an area you want to hide on the screen.

PRIVACY MASK SETUP FRIVACÝ MASK OFF MASK COLOR WHITE PREVIOÙS PAGE.



- White: PRIVACY-ZONE Position movement. Blue: PRIVACY-ZONE Size enlargement or reduction.
 For PRIVACY-ZONE Confirm, long press SET button.
- RESET

Resets the camera settings to the factory defaults.

EXIT MENU.

Saves all the setting menus and then exits.

■ Specifications

ITEM	Specifications
Power Consumption	12VDC Only (Max.150mA)
Image Sensor	PIXIM 1/3" High Sensitivity Digital Sensor
Effective Pixels	758(H) x 540(V)
Dynamic Range	120dB(Max), 102dB(Typical)
Horizontal Resolution	690TVL Effective
Min. Illumination	0.1Lux
Day & Night	Auto / Color / B/W
White Balance	Auto / AWB / Indoor / Outdoor / Manual
WB Range	2000°K~11,000°K
Shutter Speed	up to 1/30, 720 sec
Sens-up	Auto / Off (Selectable x2 ~ x64)
Privacy Masking	12 Zones
AGC	Low / Auto / High / Off
lmage Flip	Horizontal and Vertical
Camera ID	On / Off
S/N Ratio	More than 50dB
Video Output	Composite video output 75 ohm terminated
OSD	Built-in
Operating Humidity	30% ~ 90% RH
Operating Temp.	-10°C to 50°