

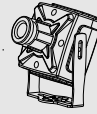
Pixim WDR Mini Camera

Instruction Guide



Components

1. COLOR MINI CAMERA



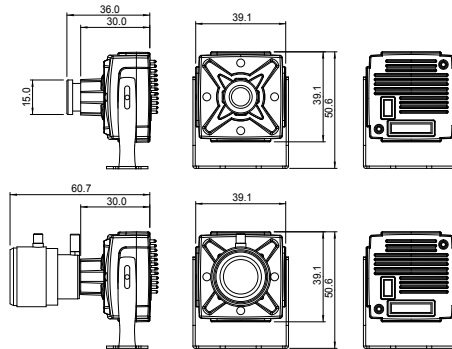
2. SCREWS



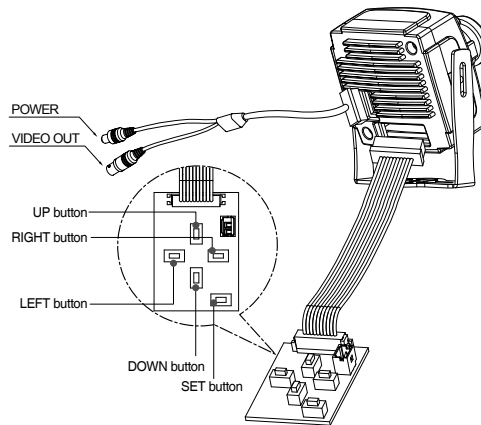
4. INSTRUCTION GUIDE



Dimensions



Cable Connections



Features

High Resolution color for crisp, clear video

- Progressive image capture
- 540 HTVL equivalent

Controlled by OSD Menu

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

High Sensitivity for low-light images

- The built-in high sensitivity PIXIM ORCA C-MOS enables a clear image even at 0.8Lux

Additional Functions

- Automatic White Balance
- Backlight Compensation
- Automatic Gain Control
- Motion Detection
- Digital Zoom (x4)
- Privacy Mask (12 Zone)
- Digital Day / Night

Wide Dynamic Range provides excellent quality in high-contrast environments

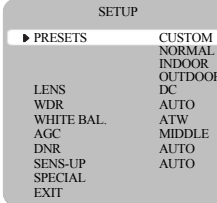
- 120dB maximum dynamic range

DNR (Digital Noise Reduction)

- The amount of low illumination 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 display even in the dark.

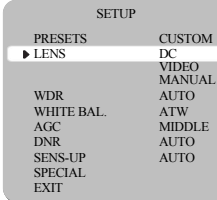
Setup Page Menu

PRESETS

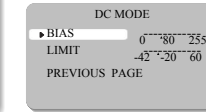


- Normal : Normal environment.
- Indoor : Indoor environment.
- Outdoor : Outdoor environment.
- Custom : Custom setting mode.

LENS

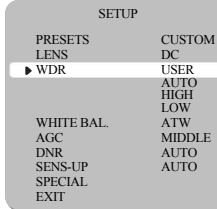


- LENS Choose the lens type DC, Video and Manual lens by using the selector button.

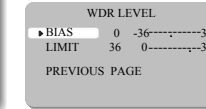


WDR

Wide Dynamic Range is essential for capturing the images at all light levels. The main function of the WDR is to accumulate the scope of contrast between the brightest and darkest points in the picture. With the AUTO option, the distribution of brightness values is automatically adapted to the recording scenario.

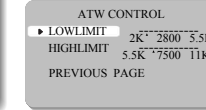
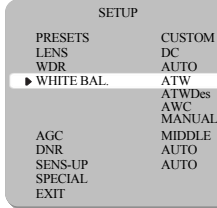


- User can select the desired level HIGH, USER & LOW, in addition to automatic adaptation (Auto), by moving the selector button.



WHITE BALANCE

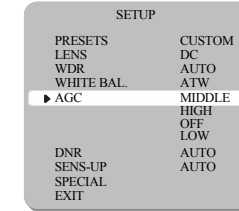
White Balance is a function which compensates different colors of light being emitted from different light sources. Users can select the above levels as they desire according to the environment.



- ATW (Auto Tracking White Balance)**
The ATW mode continuously monitors color temperature. With WB Control set to ATW, color temperature & White balance can be automatically adjusted accordingly.
- ATWDesat (ATW Desaturating)**
When WB is set to ATWDesat, the Extended Color temperature is desaturated i.e. when there is an excess of light temperature, ATWDesat Function is used as well as it reduces the Noise. The limits of the color temperature setting remain 2000K and 11,000K
- AWC (Auto White Balance)**
When set to AWC, Color temperature of the Light is automatically adjusted.
- Manual (Manual White Balance)**
Manual White Balance (MWB) Mode is used when other White Balance Options are failed.

AGC

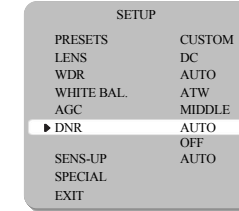
Automatic Gain Control is a feature which adjust automatically according to the incoming Signal. By positioning the arrow to 'AGC' on the SETUP menu with the help of UP and DOWN buttons, you can select the Mode you wish to go



- As the level of gain increases, the screen gets brighter and the level of noise also increases.

DNR

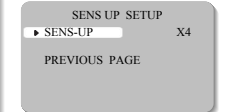
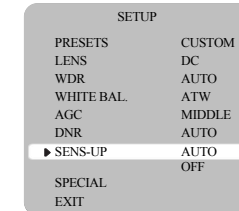
DNR is Digital Noise Reduction System with a maximum gain of 24 DB.



- AUTO**
There is a reduction in noise level with almost no ghost image.
- OFF**
There is no reduction in noise level.

SENS-UP

Sens-up helps maintain a bright, clear screen image by automatically detecting changes in the level of light in low light level conditions.



- Position the arrow to point to 'SENS UP' on the SETUP menu by using the UP and DOWN buttons.
- Select the value required by pressing the LEFT or RIGHT button.
 - AUTO** : Low light level automatic mode. (X2-X32)
 - OFF** : The function does not operate.
- Press the SET button when all the settings are complete.

EXIT

Saves all the setting menus and then exits.

Special Page Menu

CAMERA ID

User can enter a unique name for the respective camera.
The maximum length of the ID is ten characters.

SPECIAL

▶ CAMERA ID OFF

ON

DAY&NIGHT AUTO

FLIP OFF

DZOOM OFF

MOTION OFF

PRIVACY MASK SETUP

ADVANCED SETUP

RESET

RETURN

- 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 while in ON mode.
- Select the desired position with the selector.

CAMERA ID

▶ ID CAM-001

POSITION UP-LEFT

PREVIOUS PAGE

- 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.

CAMERA ID

ID CAM-001

▶ POSITION UP-LEFT

PREVIOUS PAGE

- Select the position where the ID is to be displayed by using the LEFT and RIGHT buttons.

DAY & NIGHT

This camera has a function that automatically selects the mode that is appropriate for daytime or night-time conditions. The COLOR mode operates in daytime conditions to provide optimum colors, and BW mode operates in nighttime conditions to enhance the definition of the image.

SPECIAL

CAMERA ID OFF

▶ DAY&NIGHT AUTO

BW COLOR

FLIP OFF

DZOOM OFF

MOTION OFF

PRIVACY MASK SETUP

ADVANCED SETUP

RESET

RETURN

DAY & NIGHT SETUP

▶ COLOR → BW 0 24 60

BW → COLOR 0 16 60

TIME DELAY 0 3 20

PREVIOUS PAGE

FLIP

Select "OFF" to show the image as normal. Select "ON" to reflect image horizontally.

SPECIAL

CAMERA ID OFF

DAY&NIGHT AUTO

▶ FLIP OFF

HORIZ

VERT

BOTH

DZOOM OFF

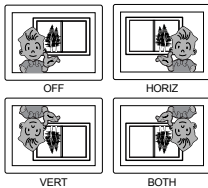
MOTION OFF

PRIVACY MASK SETUP

ADVANCED SETUP

RESET

RETURN



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)
Tilt(±100%, center of image can be moved to top and bottom edges of screen)

SPECIAL

CAMERA ID OFF

DAY&NIGHT AUTO

FLIP OFF

▶ DZOOM ON

OFF

MOTION OFF

PRIVACY MASK SETUP

ADVANCED SETUP

RESET

RETURN

- By Selecting ON, DZoom is enabled.
- By Selecting OFF, DZoom is disabled.

DZOOM

▶ ZOOM 1 4

PAN 0 -100 100

TILT 0 -100 100

PREVIOUS PAGE

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 object's movement by sensing disparity of outline, and level of brightness and color.

SPECIAL

CAMERA ID OFF

DAY&NIGHT AUTO

FLIP OFF

DZOOM OFF

▶ MOTION ON

OFF

PRIVACY MASK SETUP

ADVANCED SETUP

RESET

RETURN

MOTION DETECTION

▶ ACTIVITY THR 0 25 255

MOTION_ZONE

PREVIOUS PAGE

MOTION_ZONE SETUP

- White : MOTION_ZONE Position movement
- Green : MOTION_ZONE Size enlargement
- Red : MOTION_ZONE Size reduction
- For MOTION_ZONE Confirm, long press SET button

PRIVACY MASK SETUP

Hide an area you want to hide on the screen.

SPECIAL

CAMERA ID OFF

DAY&NIGHT AUTO

FLIP OFF

DZOOM OFF

MOTION OFF

▶ PRIVACY MASK SETUP

ADVANCED SETUP

RESET

RETURN

PRIVACY MASK SETUP

▶ PRIVACY MASK OFF

MASK COLOR WHITE

PREVIOUS PAGE

ENABLE MASKS (1 to 6)

▶ MASK 1 ON

MASK 2 OFF

MASK 3 OFF

MASK 4 OFF

MASK 5 OFF

MASK 6 OFF

PREVIOUS. NEXT.

ENABLE MASKS (7 to 12)

▶ MASK 7 OFF

MASK 8 OFF

MASK 9 OFF

MASK 10 OFF

MASK 11 OFF

MASK 12 OFF

PREVIOUS.

White : PRIVACY-ZONE Position movement

Blue : PRIVACY-ZONE Size enlargement or reduction

For PRIVACY-ZONE Confirm, long press SET button

Advanced Page Menu

VIDEO I/O

Choose video system between PAL and NTSC by moving the selector.

ADVANCED SETUP

▶ VIDEO I/O PAL

NTSC

RESOLUTION NORMAL

BACKLIGHT OFF

SYNC INT

SHARPNESS -8 8

APERTURE -8 8

RS485 SETUP

VERSION (D25-3.1)

RETURN

PAL

▶ VIDEO LEVEL 80 110 150

COLOR BAR OFF

PREVIOUS PAGE

RESOLUTION

Choose resolution between high and normal with the selector (RIGHT/LEFT)

ADVANCED SETUP

VIDEO I/O PAL

▶ RESOLUTION NORMAL

HIGH

BACKLIGHT OFF

SYNC INT

SHARPNESS -8 8

APERTURE -8 8

RS485 SETUP

VERSION (D25-3.1)

RETURN

- The high resolution supports Progressive Rate video up to 540 TV Line and normal resolution supports 480 TV Line.

BACKLIGHT

Backlight is feature of a Camera which compensates when there is a large amount of background light.

ADVANCED SETUP

VIDEO I/O PAL

RESOLUTION NORMAL

▶ BACKLIGHT ON

OFF

SYNC INT

SHARPNESS -8 8

APERTURE -8 8

RS485 SETUP

VERSION (D25-3.1)

RETURN

- When Backlight is ON, Back Light gets activated.

BL-ZONE

- White : BL-ZONE Position movement
- Green : BL-ZONE Size enlargement
- Red : BL-ZONE Size reduction
- For BL-ZONE Confirm, long press SET button

SYNC

Two synchronisation modes are available, INTERNAL and EXTERNAL LINE LOCK. In LINE-LOCK mode, it synchronises the video signal between cameras without a synchronous generator. The line-lock synchronisation is only used in areas of 60Hz (NTSC) / 50Hz (PAL).

ADVANCED SETUP

VIDEO I/O PAL

RESOLUTION NORMAL

BACKLIGHT OFF

▶ SYNC LL

INT

SHARPNESS -8 8

APERTURE -8 8

RS485 SETUP

VERSION (D25-3.1)

RETURN

- INT : Internal synchronisation
- LL : External line-lock synchronisation
- If 'LL' is selected, it can be adjusted to the desired phase.
- Press the SET button.
- Adjust to the desired phase from 0 to 624.

LINE LOCK

▶ V PHASE 0 519 624

PREVIOUS PAGE

SHARPNESS

The outline of the video image becomes cleaner and more distinctive as the level of SHARPNESS increases. If the level goes up excessively, however, it may affect the video image and generate noise.

ADVANCED SETUP

VIDEO I/O PAL

RESOLUTION NORMAL

BACKLIGHT OFF

SYNC INT

▶ SHARPNESS -8 8

APERTURE -8 8

RS485 SETUP

VERSION (D25-3.1)

RETURN

- The available range of level is -8 ~ 8

APERTURE

The outline of the video image becomes cleaner and more distinctive as the level of APERTURE increases. If the level goes up excessively, however, it may affect the video image and generate noise.

ADVANCED SETUP

VIDEO I/O PAL

RESOLUTION NORMAL

BACKLIGHT OFF

SYNC INT

SHARPNESS -8 8

▶ APERTURE -8 8

RS485 SETUP

VERSION (D25-3.1)

RETURN

- The available range of level is -8 ~ 8

RS485 SETUP (Option)

This function sets up the camera communication status when controlling the camera through an external control device.

ADVANCED SETUP

VIDEO I/O PAL

RESOLUTION NORMAL

BACKLIGHT OFF

SYNC INT

SHARPNESS -8 8

APERTURE -8 8

▶ RS485 SETUP

VERSION (D25-3.1)

RETURN

RS485 SETUP

▶ CAMERA #: 1 < 1 > 255

PREVIOUS PAGE

PROTOCOL : PELCO-D 24K

Specifications

ITEM	NTSC	PAL
Image Sensor	Pixim's 1/3" DPS ORCA CMOS	
Effective Pixels	720(H) x 540(V)	
Dynamic Range	120dB(Max), 102dB(Typical)	
Horizontal Resolution	Max 540TV Lines	
Scanning Frequency	15.734KHz(H), 59.944(V)	
Min. Illumination	0.8 Lux (F/1.2, 50IRE)	
Day & Night	D&N Function by Digital Change(Auto/Off)	
White Balance	Auto / AWB / Manual	
Electronic Shutter	up to 1/22,000 sec	
DNR	Auto / High / Low	
Privacy Masking	12 Zones	
AGC	Low / Auto / High / Off	
Camera ID	On / Off	
S/N Ratio	More than 50dB	
Video Output	Composite video output 75 ohm terminated	
Sync. System	Internal	
Operating Humidity	30% ~ 90% RH	
Operating Temp.	-10°C to 50°	
Weight	Approx. 55g	
Power Supply	DC12V±10% (Max. 170mA)	