

Marshall

Broadcast A/V Division



CV380-CS

True 4k30 Compact Camera

User Manual

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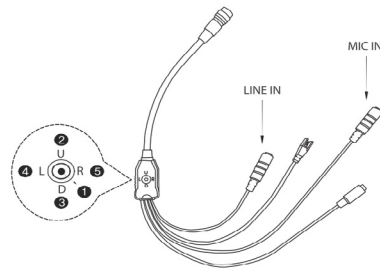
1. Menu Structure

SETUP	SUB MENU	SUB MENU
WB CONTROL	ATW	
	AWB	
	ONE PUSH	
	INDOOR	
	OUTDOOR	
	MANUAL	BLUE
		RED
AE CONTROL	AUTO	AGC MAX
		SENS UP
		AE BRIGHT
		FLK CONTROL
	SHUT FIX	SHUTTER
		AGC MAX
		SENS UP
		AE BRIGHT
	IRIS FIX	FLK CONTROL
		IRIS
		AGC MAX
		SENS UP
	AGC FIX	AE BRIGHT
		FLK CONTROL
		AGC
		SENS UP
	MANUAL	AE BRIGHT
		FLK CONTROL
		SHUTTER
		IRIS
		AGC
		SENS UP

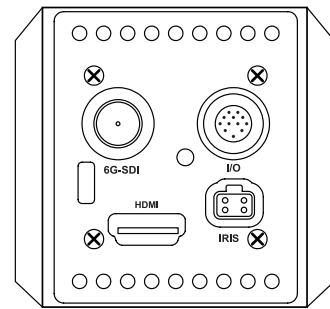
SETUP	SUB MENU	SUB MENU	
AE CONTROL	MANUAL	FLK CONTROL	
DAY/NIGHT	DAY		
	NIGHT	NIGHT COLOR COLOR BURST	
AUDIO	MIC/LINE		
	AUDIO LEVEL		
	MIC ATTENUATOR		
	SAMPLE BITS		
IMAGE CONTROL	LENS SHADING		
	CONTRAST		
	BRIGHTNESS		
	SATURATION		
	HUE		
	EDGE ENHANCE		
	AUTO SATURATE		
	AUTO EDGE		
	BLACK LEVEL		
	GAMMA CORRECT		
	DNR		DNR MODE
			DNR LEVEL
SPECIAL	DZOOM		
	DEFOG		
	DIS		
	BACKLIGHT		
	BINNING		
	DEFECT PIXEL		
	DISP FUNCTION		
	FLICKER DETECT		

SETUP	SUB MENU	SUB MENU
SPECIAL	PRIVACY	
SETUP	CAM TITLE	
	COMMUNICATION	RS-485/ID
	SYSTEM INFO	
	OUTPUT FORMAT	
RESET	USER/FACTORY	
EXIT		

2. OSD Joystick and Button



I/O Cable for CV380-CS



CV380-CS

- ① SET *Used to access the menu and confirm selection.*
- ② UP *Used to move the cursor up*
- ③ DOWN *Used to move the cursor down*
- ④ LEFT *Used to move the cursor to left and change the value.*
- ⑤ RIGHT *Used to move the cursor to right and change the value.*

Press SET button to access the MAIN MENU.

MENU	
WB CONTROL	AUTO
AE CONTROL	>
DAY/NIGHT	AUTO>
AUDIO	>
IMAGE CONTROL	>
SPECIAL	OFF
SETUP	>
RESET	ON>
EXIT	

Use the UP & DOWN buttons to select the desired item

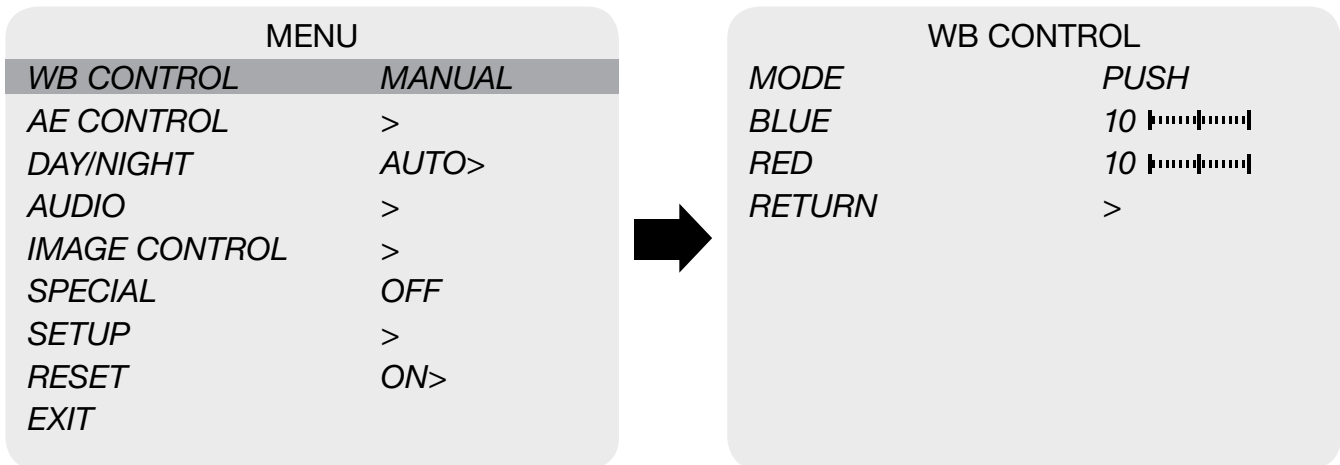
Use the LEFT & RIGHT buttons to change the sub-item

> Icon indicates "Press OSD Button" or "Enter Sub Menu"

3. WB CONTROL

Select WB CONTROL using the UP or DOWN button. You can change between AUTO, ATW, PUSH, and MANUAL using the LEFT or RIGHT buttons.

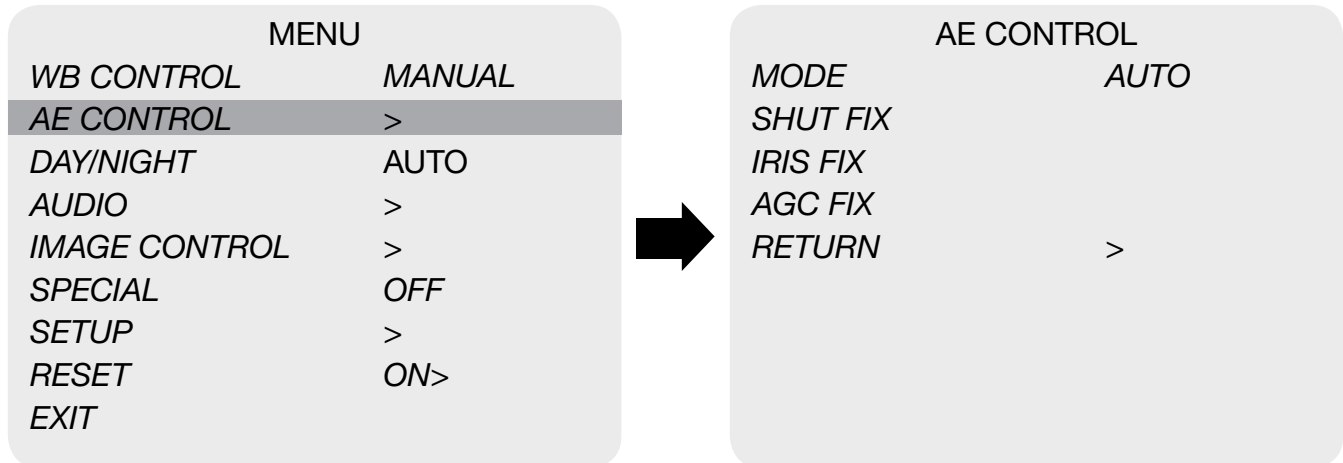
- **AUTO:** Controls the automatic adjustment of the light source's color temperature from 3,000°K ~ 8,000°K.
- **ATW:** Continuously adjusts camera color balance in accordance with any change in color temperature. Compensates for color temperature changes within the range of 1,900°K to 11,000°K.
- **PUSH:** Color temperature will be manually adjusted by pushing the OSD button. Place the white paper in front of the camera when OSD button is pressed to obtain optimum result.
- **MANUAL:** Select this to fine-tune White Balance manually.
 - You can adjust the blue and red tone level manually.
 1. **BLUE:** Adjust the Blue tone of the image. (0~20)
 2. **RED:** Adjust the Red tone of the image. (0~20)
- **INDOOR:** Select this to adjust white balance to indoor lighting condition.
- **OUTDOOR:** Select this to adjust white balance to outdoor lighting condition.



1. Adjust White Balance first by using the AUTO or ATW mode before switching to MANUAL mode.
2. White Balance may not work properly under the following conditions. In this case, select the ATW mode.
 - When the ambient illumination of the subject is dim.
 - If the camera is directed towards a fluorescent light or installed in a place where illumination changes dramatically, the White Balance operation may become unstable.

4. AE CONTROL

Select *AE CONTROL* using the *UP* or *DOWN* button. You can select one sub-mode using the *UP* or *DOWN* buttons.



- **AUTO:** Adjusts the exposure level automatically. Detailed fine tuning options are available under this menu.
- **SHUT FIX:** Provides more detailed shutter speed options. All other controls are tuned for the selected shutter speed.
- **IRIS FIX:** Provides more detailed iris control options. All other controls are tuned for the selected iris setting.
- **AGC FIX:** Provides more detailed gain option. All other controls are tuned for the selected gain value.
 1. **SHUTTER:** Speed can be set at auto or manual. (1/30~1/10,000)
 2. **AGC MAX:** Used to set maximum gain value to control the video noise caused by Auto Gain Control. (Off, Low, Middle, High, DMIN, DMID, DMAX)
 3. **SENS UP:** Controls the digital slow shutter to allow extra light into the camera and adjust the picture quality. (Off, x2~x10)
 4. **AE BRIGHT:** Select this to adjust auto exposure brightness levels. (0~10)
 5. **IRIS SPEED:** Electronic Iris speed can be controlled, for DC Iris lens only. (0~5)
 6. **LENS MODE:** Lens setting will be optimized for selected environment, for DC Iris lens only.
 7. **FLK CONTROL:** Provides a proper image sensor frequency to match the power frequency in order to minimize video flicker.

5. DAY / NIGHT

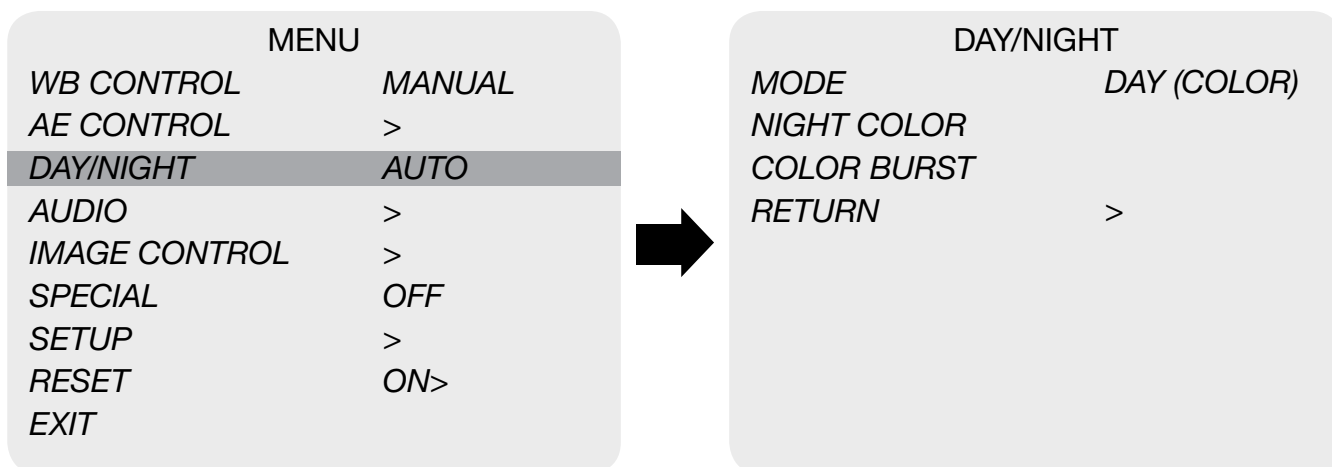
Select DAY / NIGHT using the UP or DOWN button. You can select one sub-mode from AUTO, COLOR, and NIGHT using the UP or DOWN buttons.

MODE: Set camera to either color mode or B&W mode. (Day, Night)

DAY: When set to DAY mode, camera stays in color and IR cut filter is engaged.

NIGHT: When set to NIGHT mode, camera stays in B&W and IR cut filter is removed.

- **NIGHT COLOR:** When on, camera stays on color mode. Night (B&W) can be selected from this mode. (On, Off)
- **COLOR BURST:** Signal ON or OFF can be set for CVBS signal. (On, Off)



6. AUDIO

Select *AUDIO* using the *UP* or *DOWN* button and enter *ON* using *SEL* button. You can select one sub-mode using the *UP* or *DOWN* buttons.

- **MIC / LINE:** When using audio microphone use MIC mode, when using other audio sources use LINE setting
 - **AUDIO LEVEL:** Select this to adjust audio levels manually.
 - **MIC ATTENUATOR:** Audio attenuation can be controlled from this menu to minimize the audio noise level
1. **SAMPLE BITS:** Select the bit depth of audio

MENU	
WB CONTROL	MANUAL
AE CONTROL	>
DAY/NIGHT	AUTO
AUDIO	>
IMAGE CONTROL	>
SPECIAL	OFF
SETUP	>
RESET	ON>
EXIT	

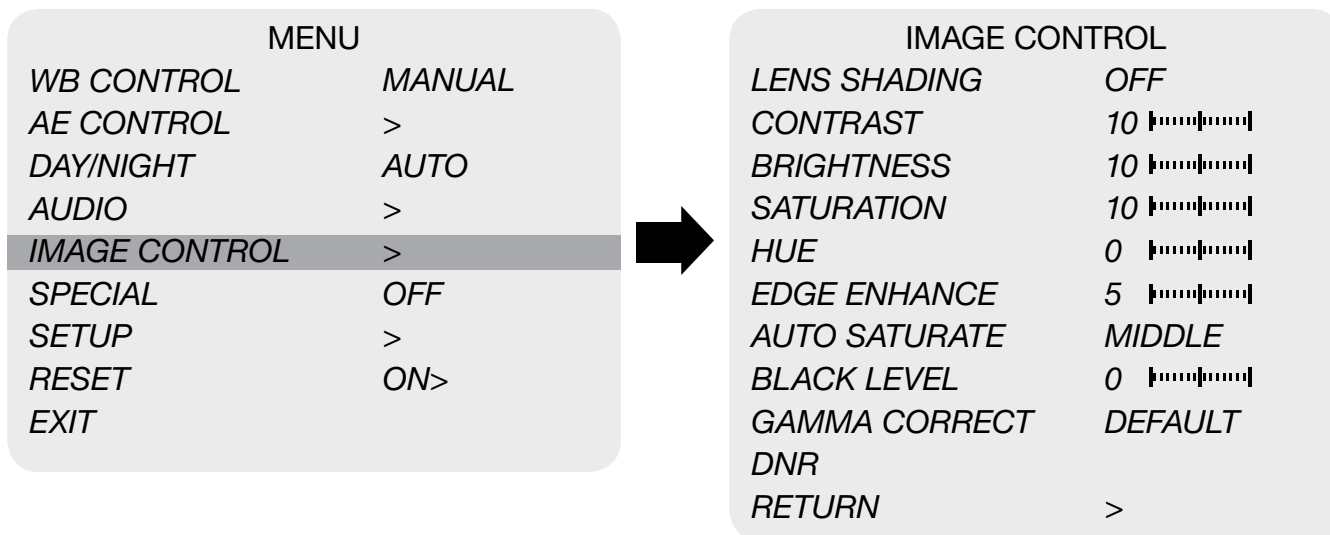


AUDIO	
MIC LINE	
AUDIO LEVEL	24
MIC ATTENUATOR	
SAMPLE BITS	24 BITS
RETURN	>

7. IMAGE CONTROL

Select *IMAGE CONTROL* using the *UP* or *DOWN* button.

You can select *LENS SHADING*, *CONTRAST*, *HUE*, And *EDGE ENHANCE* using the *UP* or *DOWN* buttons.



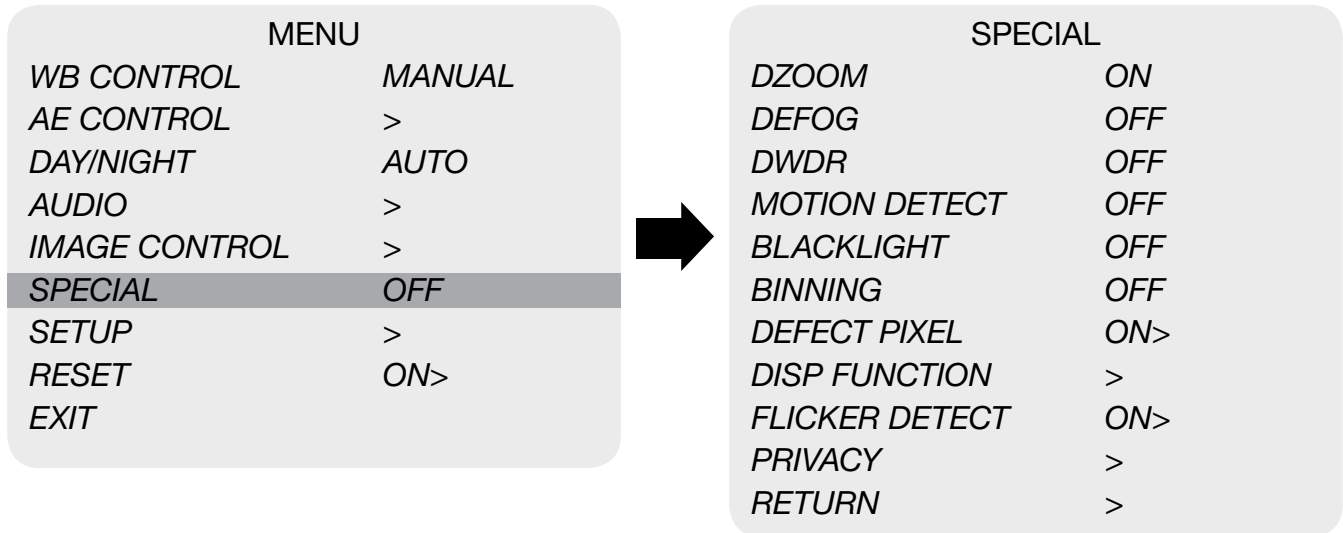
- **LENS SHADING:** Corrects inconsistent brightness level in the image.
- **CONTRAST:** Adjust the image contrast level.
- **BRIGHTNESS:** Adjust the image brightness level.
- **SATURATION:** Adjust the image saturation level.
- **HUE:** Adjust the image hue level.
- **EDGE ENHANCE:** Adjust the image sharpness level.
- **AUTO SATURATE:** Decrease saturation automatically when noise scene is detected.
- **BLACK LEVEL:** Adjust the image black level.
- **GAMMA CORRECT:** Adjust the image output gamma level.
- **DNR:** Reduces video noise at low ambient light.

Select the *DNR* level from *OFF*, *LOW*, *MIDDLE*, and *HIGH* using the *LEFT* or *RIGHT* button.

8. SPECIAL

Select *SPECIAL* using the UP or DOWN button.

You can select *DEFOG*, *MOTION DETECT*, *BACKLIGHT*, *DEFECT PIXEL*, and *FLICKER DETECT* using the UP or DOWN buttons.

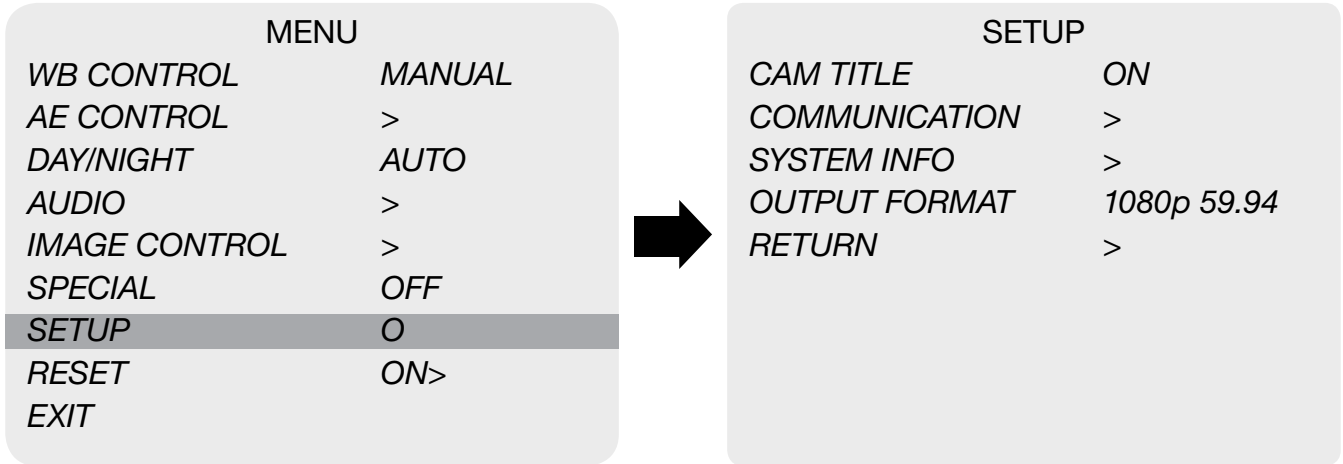


- **DZOOM:** Digitally zoom the video by the desired ratio.
- **DEFOG:** This feature will help increase visibility in extreme weather conditions, such as fog, rain, or in strong luminous intensity.
- **DWDR:** This feature enables users to view both the object and background more clearly when the background is too bright.
- **MOTION DETECT:** Select a zone to be sensitive to motion, when motion is detected the camera will adjust to better capture subject in motion.
- **BLACKLIGHT:** Adjust backlight compensation by choosing either BLC or HLM from this menu.
- **BINNING:** Enable or disable pixel binning.
- **DEFECT PIXEL:** Advanced defective pixel correction menu.
- **DISP FUNCTION:** Display effects such as freeze mirror, rotation, and style can be applied from this menu.
- **FLICKER DETECT:** Adjust the image sensor frequency to match the power frequency.
- **PRIVACY:** Mask an area you want to hide on the screen by applying the privacy zones.

9. SETUP

CAMERA setup can be adjusted from this menu.

You can select CAMERA ID, Communication, System Info, and Output Format using the UP or DOWN buttons.



- **CAM TITLE:** Camera title can be turned ON or OFF.
- **COMMUNICATION:** VISCA communication can be adjusted.
 1. **CAM ID:** Camera ID can be setup. (0~7)
 2. **ID DISPLAY:** Camera ID display can be displayed.
 3. **BAUDRATE:** Camera baudrate can be set.
(2400, 4800, 9600, 19200, 38400)
- **SYSTEM INFO:** Camera information can be found under this menu.
- **OUTPUT FORMAT:** Camera resolution and frame rate can be set.
(1080 by default)

Select the FRAME RATE using the LEFT or RIGHT buttons.

Available Frame Rates are:

4096 x 2160p 30, 29.94, 25, 24, 23.98

3840 x 2160p 30, 29.94, 25, 24, 23.98

1920 x 1080p 60, 59.94, 50, 30, 29.97, 25, 24, 23.98

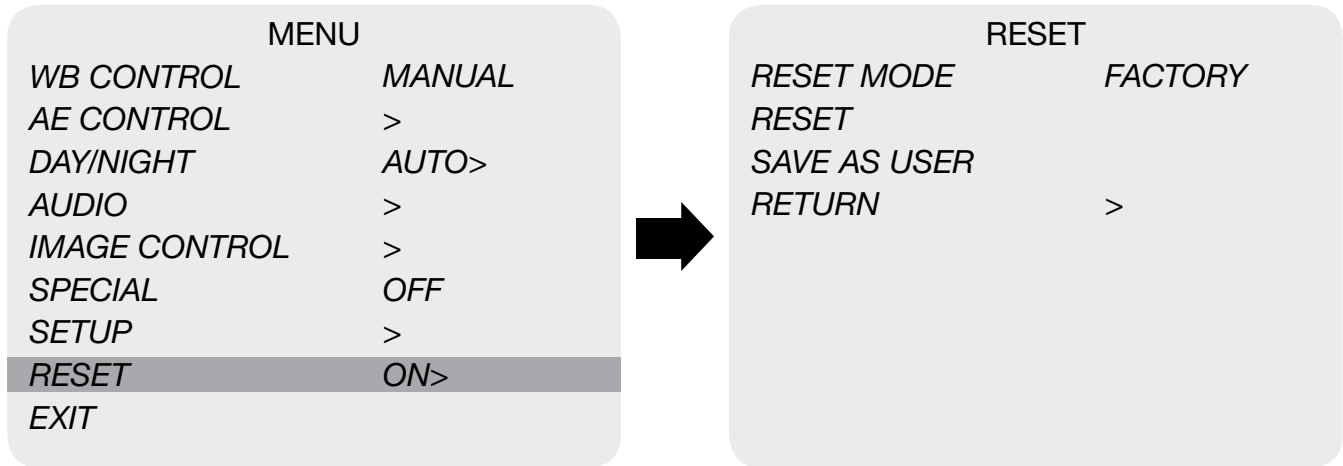
1920 x 1080i 60, 59.94, 50

1280 x 720p 60, 59.94, 50

10. RESET

Select **RESET** using the **UP** or **DOWN** buttons.

- **RESET:** Reset the camera settings the factory defaults or user setting value.



- **ON:** Set the camera setting to either “FACTORY” or “USER” of “CHANGE” menu. Make sure to select the right mode from “CHANGE” before defaulting the camera.
- **RESET MODE:** Select the desired setting mode.

Select from **USER** or **FACTORY** using the **LEFT** or **RIGHT** button.

1. **USER:** Select “USER” if setting value user saved last is needed.
2. **FACTORY:** Select “FACTORY” if factory default setting is needed.
“FRAME RATE”, “CAM ID”, and “BAUDRATE” will not change.

11. EXIT

Select EXIT using the UP or DOWN button.

MENU	
WB CONTROL	MANUAL
AE CONTROL	>
DAY/NIGHT	AUTO
AUDIO	>
IMAGE CONTROL	>
SPECIAL	OFF
SETUP	>
RESET	ON>
EXIT	

- **SAVE:** Exit the setup after saving the value changes.

12. TROUBLESHOOTING

Before sending the camera for repair, please check below to make sure that the camera is installed correctly. If it still does not perform adequately, please consult with your supplier.

Problem	Solutions
Nothing appears on the screen.	<ul style="list-style-type: none"> a. Check that all connected devices are powered on. b. Confirm that the voltage is correct. c. Confirm that the power supply provides enough current to power the camera. d. Check that all video cables are correctly connected.
The picture is not clear.	<ul style="list-style-type: none"> a. Check that your monitor is correctly adjusted. b. Confirm that the glass in front of the lens is clean. If there is dust, dirt, or fingerprints on the glass, the image quality will be affected. To clean the glass, use a soft, dry, and non-abrasive cloth or a commercially available lens cleaning set. c. Correctly adjust the focus.
The picture has interference.	<ul style="list-style-type: none"> a. The camera may be close to a high voltage source, such as a power generator. b. The BNC cable is not terminated properly. c. The video cables are not connected properly.
The picture is flickering continually.	<ul style="list-style-type: none"> a. Check the termination and set the impedance at 75Ω properly. b. Ensure that the camera is not pointing towards the Sun or any light source. c. Check if there is any intermediate device. d. Check if the distance of the video cable exceeds the maximum transferable limitation.
The camera is not synchronizing with the reference signal.	<ul style="list-style-type: none"> a. Make sure Tri-Level reference signal is used. b. Locking takes up to 1 minute depending on the signal strength. Make sure the sync LED is solidly lit. c. Check if the cable and connectors used in reference sync are in good condition. d. Make sure the cable length used in reference sync does not exceed 100 ft. e. Make sure OUTPUT EN is on when using the genlock output.

Warranty

Marshall Electronics warrants to the first consumer that this device will, under normal use, be free from defects in workmanship and materials, when received in its original container, for a period of two years from the purchase date. This warranty is extended to the first consumer only, and proof of purchase is necessary to honor the warranty. If there is no proof of purchase provided with a warranty claim, Marshall Electronics reserves the right not to honor the warranty set forth above. Therefore, labor and parts may be charged to the consumer. This warranty does not apply to the product exterior or cosmetics. Misuse, abnormal handling, alterations or modifications in design or construction void this warranty. No sales personnel of the seller or any other person is authorized to make any warranties other than those described above, or to extend the duration of any warranties on behalf of Marshall Electronics, beyond the time period described above.

Due to constant effort to improve products and product features, specifications may change without notice.

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