Marshall ____



CV380-CS

True 4k30 Compact Camera

User Manual

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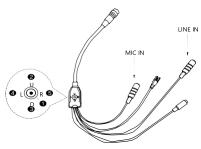
1. Menu Structure _____

SETUP	SUB MENU	SUB MENU
	ATW	
	AWB	
NA/D	ONE PUSH	
WB CONTROL	INDOOR	
CONTROL	OUTDOOR	
	MANUAL	BLUE
	IVIANUAL	RED
		AUTO
	BLACK BALANCE	MANUAL
		AGC MAX
	AUTO	SENS UP
	AUTO	AE BRIGHT
		FLK CONTROL
		LENS MODE
		SHUTTER
		AGC MAX
	SHUT FIX	SENS UP
		AE BRIGHT
		AGC
AE CONTROL	AGC FIX	AE BRIGHT
AL CONTROL	AUC FIX	FLK CONTROL
		LENS MODE
		SHUTTER
	MANUAL	AGC
	IVIAIVUAL	SENS UP

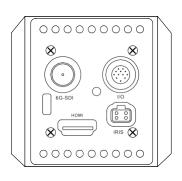
SETUP	SUB MENU	SUB MENU
	DAY	
DAY/NIGHT	NIGHT	NIGHT COLOR
	AUTO	
	MIC/LINE	
ALIDIO	AUDIO LEVEL	
AUDIO	MIC ATTENUATOR	
	SAMPLE BITS	
	LENS SHADING	
	CONTRAST	
	BRIGHTNESS	
	SATURATION	
	HUE	
IMAGE	EDGE ENHANCE	
CONTROL	AUTO SATURATE	
	AUTO EDGE	
	BLACK LEVEL	
	GAMMA CORRECT	
	DND	DNR MODE
	DNR	DNR LEVEL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

SETUP	SUB MENU	SUB MENU
SPECIAL	PRIVACY	
	MATRIX	
PICTURE STYLE	WHITE BALANCE	
PICTURE STYLE	GAMMA	
	DETAIL	
	CAM TITLE	
SETUP	COMMUNICATION	RS-485/ID
SETUP	Model	
	S/W Ver	
OUTPUT FORMAT		
RESET	USER/FACTORY	
EXIT		

2. OSD Joystick and Button







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.

Use the UP & DOWN buttons to select the desired item

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

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 AWB, ATW, PUSH, INDOOR, OUTDOOR and MANUAL using the LEFT or RIGHT buttons.

- AWB: 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.
 - **BLUE OFFSET:** Adjust the Blue tone within AWB and ATW modes. (0 ~100)
 - **RED OFFSET:** Adjust the Red tone within AWB and ATW modes. (0~100)
- 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.

- **BLUE:** Adjust the Blue tone of the image. (0~255)
- **RED:** Adjust the Red tone of the image. (0~255)
- INDOOR: Select this to adjust white balance to indoor lighting condition.
- **OUTDOOR:** Select this to adjust white balance to outdoor lighting condition.

BLACK BALANCE (AUTO and MANUAL)

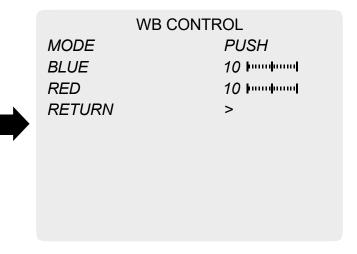
- **MANUAL** – Adjust the Blue, Red and Green components of black.

Continued on next page.

5. WB CONTROL

- Adjust White Balance first by using the AWB 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.

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



6. AE CONTROL

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

MENU			AE CONT	ROL
WB CONTROL	MANUAL		AE MODE	AUTO
AE CONTROL	>		SHUTTER	
DAY/NIGHT	AUTO		AGC	
AUDIO	>	_	AGC MAX	
IMAGE CONTROL	>		SENS UP	
SPECIAL	OFF	ŕ	AE BRIGHT	
SETUP	>		FLK CONTROL	
RESET	ON>		LENS MODE	
EXIT			RETURN	

- 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.
- AGC FIX: Provides more detailed gain option. All other controls are tuned for the selected gain value.
- MANUAL: Adjusts the exposure level manually.
 - 1. SHUTTER: Speed can be set at auto or manual. (1/30~1/10,000)
 - 2. AGC: Electronic gain level can be controlled. (0dB ~ 46dB)
 - **3. AGC MAX:** Used to set maximum gain value to control the video noise caused by Auto Gain Control. $(0 \sim 15)$
 - **4. SENS UP:** Controls the digital slow shutter to allow extra light into the camera and adjust the picture quality. (Off, $x2 \sim x15$)
 - **5. AE BRIGHT:** Select this to adjust auto exposure brightness levels. (0~24)
 - **6. FLK CONTROL:** Provides a proper image sensor frequency to match the power frequency in order to minimize video flicker.
 - 7. LENS MODE: Lens setting will be optimized for selected environment, for DC Iris lens only.

Note: DC Iris is automatically set by camera ISP. It's not manually adjustable.

7. DAY / NIGHT_

Select DAY, NIGHT or AUTO using the Right or Left button.

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

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)

AUTO: When set to AUTO mode, camera automatically switches between DAY and NIGHT mode depending on lighting condition.

MENU			DAY/NIC	HT
WB CONTROL	MANUAL		MODE	DAY (COLOR)
AE CONTROL	>		NIGHT COLOR	
DAY/NIGHT	AUTO		RETURN	>
AUDIO	>	_		
IMAGE CONTROL	>			
SPECIAL	OFF	ŕ		
SETUP	>			
RESET	ON>			
EXIT				

8. 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

Line input does not provide power to the audio device. Mic will use Mic Bias 1.7V and up to 3mA max current.

MENU			AUDIC	
WB CONTROL	MANUAL		MIC LINE	
AE CONTROL	>		AUDIO LEVEL	24 J anagana
DAY/NIGHT	AUTO		MIC ATTENUATOR	
AUDIO	>		SAMPLE BITS	24 BITS
IMAGE CONTROL	>		RETURN	>
SPECIAL	OFF	ľ		
SETUP	>			
RESET	ON>			
EXIT				

9. 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.

MENU			IMAGE CON	TROL
WB CONTROL	MANUAL		LENS SHADING	OFF
AE CONTROL	>		CONTRAST	10 իսափասվ
DAY/NIGHT	AUTO		BRIGHTNESS	10 իսափոսով
AUDIO	>		SATURATION	10 խոսփոսով
IMAGE CONTROL	>		HUE	<i>0</i>
SPECIAL	OFF	,	EDGE ENHANCE	5 խոսփոսով
SETUP	>		AUTO SATURATE	MIDDLE
RESET	ON>		BLACK LEVEL	<i>O</i> -
EXIT			GAMMA CORRECT	DEFAULT
			DNR	
			RETURN	>

- 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.
- AUTO EDGE: Adjust sharpness level automatically.
- BLACK WHITE LEVEL: Adjust the image black level and white level value.
- **GAMMA CORRECT:** Adjust the image output gamma level.
- DNR: Reduces video noise at low ambient light.
 Select the DNR level from AUTO, LOW, MIDDLE, and HIGH using the LEFT or RIGHT button.

10. S

SPECIAL.

Select SPECIAL using the UP or DOWN button. You can select DEFOG, BACKLIGHT, DEFECT PIXEL, and FLICKER DETECT using the UP or DOWN buttons.

MENU			SPECIA	L
WB CONTROL AE CONTROL DAY/NIGHT AUDIO IMAGE CONTROL SPECIAL	MANUAL > AUTO > OFF		DZOOM DEFOG DIS BLACKLIGHT BINNING DEFECT PIXEL	ON OFF OFF OFF ON>
SETUP RESET EXIT	> ON>		DISP FUNCTION FLICKER DETECT PRIVACY RETURN	> ON> > >

- 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.
- **DIS:** This feature enables digital image stabilization.
- **BACKLIGHT:** Adjust blacklight 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.

11. PICTURE STYLE

MAIN MEN	IU	PICTURE S	TYLE
WB CONTROL	MANUAL	STYLE	USER
AE CONTROL	>	MATRIX	OFF
DAY/NIGHT	AUTO	WHITE BALANCE	OFF
AUDIO	>	GAMMA	OFF
IMAGE CONTROL	>	DETAIL	OFF
SPECIAL	OFF	DEFAULT	>
PICTURE STYLE	OFF	SAVE	PRESS OK
SETUP	>		
RESET	ON>	RETURN	
EXIT			

- STYLE: 6 different settings can be assigned.
- MATRIX: Matrix feature can be configured.
 - 1. **STYLE:** 4 predefined color matrix styles are available to choose from.
 - 2. MASTER LEVEL: Fine adjustment of master color gain (saturation).
 - 3. MASTER PHASE: Fine adjustment of master color hue.
 - 4. **COLOR SEL:** Select color to be adjusted. 6 colors to choose from.
 - 5. **COLOR LEVEL:** Fine level adjustment of selected color.
 - COLOR PHASE: Fine phase adjustment of selected color.
- WB: Adjust camera white balance within the selected picture style.

 WB feature is identical as the one on the main menu. When Picture Style WB is enabled, main menu WB will be disabled.
- GAMMA: Adjust camera gamma value within the selected picture style.
 Gamma feature is identical as the one from the main menu. When Picture Style Gamma is enabled, main menu Gamma will be disabled.
- DETAIL: Adjust camera peak levels (sharpness) balance within the selected picture style.
 - 1. **H-PEAK LEVEL:** Adjust horizontal peak level.
 - 2. V-PEAK LEVEL: Adjust vertical peak level.
 - 3. **VIDEO DEPENDENT:** Adjust image crispening.
 - 4. CLIP & CLIP LEVEL: Adjust sharpness peak clip.
- **DEFAULT:** Reset the selected user number to the default value.
- **SAVE:** Save the selected user settings.

10.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.

MENU		SETUP	
WB CONTROL AE CONTROL	MANUAL >	CAM TITLE COMMUNICATION	ON >
DAY/NIGHT AUDIO IMAGE CONTROL	AUTO > >	Model S/W Ver OUTPUT FORMAT	CV380 1080p 59.94
SPECIAL SETUP	OFF O	RETURN	>
RESET EXIT	ON>		

- CAM TITLE: Camera title can be turned ON or OFF.
- COMMUNICATION: VISCA communication can be adjusted.
 - **1. CAM ID:** Camera ID can be setup. (0~254)
 - 2. ID DISPLAY: Camera ID display can be displayed.
 - **3. BAUDRATE:** Camera baudrate can be set. (2400, 4800, 9600, 19200, 38400, 115200)
- Model: CV380
- S/W ver: Camera firmware version
- 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

11.RESET

Select RESET using the UP or DOWN buttons.

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

MENU			RESET	
WB CONTROL	MANUAL		RESET MODE	FACTORY
AE CONTROL	>		RESET	
DAY/NIGHT	AUTO>		SAVE AS USER	
AUDIO	>	_	RETURN	>
IMAGE CONTROL	>			
SPECIAL	OFF	ŕ		
SETUP	>			
RESET	ON>			
EXIT				

- 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 note change.

To RESET Camera to default settings (1920x1080p30fps) power-cycle the camera then use the following combo on OSD Joystick: UP, DOWN, UP, DOWN, then push and HOLD joystick in for 5 seconds then release.

12.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					

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

13.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.	 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.	 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.	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.	 a. Check the termination and set the impedance at 75Ωproperly. 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.	 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.

Warrant	V
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For Warranty information please refer to Marshall website page:

https://marshall-usa.com/company/warranty.php

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