

MULTI-PURPOSE CAMERA CONTROLBOX WITH SPLITSCREEN AND PICTURE IN PICTURE FUNCTION



Model: MXN201C

Design and Specifications are subject to change without notice.

OWNER'S RECORD

The model and serial numbers are located at the rear. Record the serial number in the space provided below. Refer to these numbers whenever you call upon your dealer regarding this product.

Model No.	MXN201C
Serial No.	

WARNING

To avoid electric shock, do not open the cabinet. Refer servicing to qualified personnel only.





This 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 risk of electric shock to persons.



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



You are cautioned that any changes or modifications which is not expressed or approved in this manual could void your warranty and make this equipment not working.

SUGGESTIONS

MULTI-PURPOSE CAMERA CONTROLBOX WITH SPLITSCREEN AND PICTURE IN PICTURE FUNCTION

Safety

Use only DC 10V ~ DC 32V.

In case that dust or liquid was soaked into the case, please turn off power and consult an experienced technician before using.

Installation

Do not install the unit in an extremely hot or humid place (radiator, air duct, etc.) or in a place subject to direct sunlight, excessive dust, mechanical vibration or shock. If your vehicle has been parked in direct sun light resulting in a considerable rise in temperature inside the vehicle, allow the unit to cool off before operating.

General cleaning information

Clean the unit with a slightly damp soft cloth. Use a mild household detergent. Never use strong solvents such as thinner or benzene as they might damage the finish of the unit.

FEATURES



- DC10V ~ DC32V
- NTSC / PAL Standard signal
- 4 camera inputs /1 AV Input / 1 AV Output
- Multiple display mode (SINGLE, SPLIT, TRIPLE, QUAD, PIP)
- Automatic picture display (5 Triggering Functions)
- Auto scanning function
- OSD

PACKAGE CONTENTS

Please check that you have the correct contents before using this product. If any items are missing, please contact your dealer.



INSTALLATION



Remote Controller



1 POWER button

Press POWER button to turn the control box on or off. * When the trigger signal is activated, the selected source's image will be displayed on the monitor screen automatically. (Please refer to TRIGGER MODE in MAIN MENU for further information)

2 - / + button

Press - / + button to adjust BRIGHT, CONTRAST, COLOR, TINT and setting values. Press - / + button to select the content of the selected line in each submenu.

3 UP / DOWN button

Press UP / DOWN button to adjust TILT (PAN) camera position upward or downward.

(Available only when TILT (PAN) camera is connected to CA1, CA2, or CA3 input) Press UP/ DOWN button to move the cursor up or down in MAIN MENU and each submenu..

4 CH.SELE button

Press CH.SELE button to select the display image. Sequential press shows the image of each camera in turn below. (CAM1 \rightarrow CAM2 \rightarrow CAM3 \rightarrow CAM4 \rightarrow AUX \rightarrow SPLIT2 \rightarrow SPLIT3 \rightarrow SPLIT4) * OSD indicates which image is displayed on the screen.

Press CH.SELE button to select the items, in which the cursor is in menu. Press CH.SELE button to start or stop scanning each display mode channel. Available only when AUTO SCAN in menu is ON.

G CA1,CA2,CA3,CA4/AV button

Press CA1, CA2 or CA3 button to select each camera. Press CA4 / AV button to select CA4 and press again to select any AV device.

6 MENU button

Use MENU button to enter Display Menu(Short key) and Main Menu(Long key). Press once to enter menu mode.

Press again to exit from menu mode.

Selectable OSD Menu Disappears within 10 sec if there's no new button pressed. Press menu button over 2 sec to go back to main menu from submenu.

1. DISPLAY MENU



2. SET UP MENU

Press MENU button for a while (over 2 sec) to enter MAIN MENU. Selectable OSD MENU disappears within 12sec if there's no new button pressed.





1 CAMERA SETTING

1.	CA	MER	A SE	TTING
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CAM1 CAM2 CAM3 CAM4	NOR/MIR: [MIRROR;NORMAL] UP/DOWN: [UP;DOWN] NAME: [CAM1]
	1001(1.
	[NORMAL;SHUTTER;
	TILT.AT;TILT.MT]

NOTE 1. CAM4 is only available with NORMAL CAMERA.

 Tilt.AT (Automatic Tilt): When trigger is activated, Tilt CAM automatically turns to downward(-40°). When trigger is off ,Tilt CAM automatically turns to upward(0°).
Tilt.MT (Manual Tilt): When trigger is activated, Tilt cam turns to the last set position.

4. User can adjust tilt angle manually only in TILT.MT mode . .

• NOR/MIR: [MIRROR;NORMAL]

Each camera's Normal/Mirror view can be selected.

• UP/DOWN: [UP;DOWN]

Each camera's converted image can be selected (top and bottom).

• NAME: [CAM1

Camera name can be set



2 TRIGGER MODE

2. TRIGGER MODE

• SOURCE: [CAM1~4;AUX1~2;SPLIT1~3]



1. User can use 5 triggers and each trigger source(CAM1~SPLIT3) can be selected.

- 2. When the trigger is activated, the selected source's image is displayed.
- DELAY: [0~20 sec]



- 1. Each trigger's delay time is adjustable from 0 sec to 20 sec.
- NOTE If one camera is activated by an intermittent signal (e.g. from an indicator light's) the delay must be activated to prevent the picture from flickering.

- 1. Trigger out line(DC 12V:Max 100mA) can be used only for trigger out function.
- 2. It cannot be used for a main power to other devices.



1. POSITION & WIDTH setting for distance marker when any trigger is engaged.

3 SPLIT MODE

3. SPLIT MODE			
SPLIT1 SPLIT2 SPLIT3	SOURCE1: [CAM1~4;OFF] SOURCE2:[CAM1~4;OFF] SOURCE3:[CAM1~4;OFF] SOURCE4:[CAM1~4;OFF] AUDIO:[CAM1~4;OFF] TYPE: [DEFAULT;CUSTOM]		

- 1. Multiple display modes can be selected.
- 2. Full/Split/Triple/PIP/Quad





OPERATIONS AUDIO : [CAM1~4;OFF] CH.SELE UP/DN - / + MENU Selecting Shifting Exit **Option setting** SPLIT1~SPLIT3 UP/DN TYPE:[DEFAULT;CUSTOM] CH.SELE UP/DN - / + CH.SELE and the second second Shifting **Option setting** Selecting Selecting SPLIT1~SPLIT3 UP/DN CUSTOM DEFAULT **Option** setting Option setting 2CH-SPLIT 3CH-SPLIT 4CH-SPLIT CA1 CA2 CA3 CA4 2CH-SPLIT 3CH-SPLIT 4CH-SPLIT **H** SCALER / POSITION

CUSTOM

- CA1, CA2, CA3, CA4 / AV Button: Select camera which you want to change.
- CH.SELE Button : Select SCALER or POSITION.
- - / + Button : Change the size of SCALER'S right & left.

Change the position of SCALER'S right & left

- UP / DOWN Button : Change the size of SCALER'S up & down. Change the position of SCALER'S up & down.
- **NOTE** 1. Multiple Display modes is selectable according to the number of selected source.

2. If user select "OFF mode" for all the sources from split 1~3, the monitor skips split 1~3 while scanning monitor channel.

3. If user select only one source or all off mode, **TYPE** is not activated.



- 1. ON/OFF setting for auto scan function.
- AUTO SCAN DELAY



NOTE 1. Auto scanning time of each camera can be adjusted from 0 sec to 20 sec.

2. Auto scan delay time setting is only available with SOURCE . To give a pause while scanning, press SOURCE .

3. When user select "0 sec "for one channel, monitor skip scanning the channel.





NOTE Reset for factory setting.

SPECIFICATIONS

Model: MXN201C

Power Input	DC 10V~32V		
Power Consumption	Max. 25Watt		
Video System	NTSC / PAL compatible		
Camera input(4CH)	Mini DIN 4, 1Vp-p 75 Ω		
A/V Output(1CH)	RCA, Composite Video Signal, 1Vp-p 75 Ω		
	RCA, Audio Signal, 150mV RMS,	47K	
A/V Input(1CH)	RCA, Composite Video Signal, 1Vp-p 75 Ω		
	RCA, Audio Signal, 150mV RMS,	47K	
Operating Temp.	-25℃ ~+75℃ (-13°F ~167°F)		
Storage Temp.	-30℃ ~+85℃ (-22°F ~185°F)		
Ambient Condition	Indoor use only		
Vibration	5.5G		
Dimension	154(W) X 105(D) X 29(H) mm		
	6.1(W) X 4.1(D) X 1.1(H) inch		
Weight	Approx. 500g		
Supplied acc'y	Power Cord 2M	(1)	
	RCA Cable	(1)	
	Screws Kits	(1)	
	Bracket Jack	(2)	
	Remote Controller	(1)	
	RX Module For Remote Controller	(1)	



THIS SYMBOL MEANS DO NOT DISPOSE OF AS MUNICIPAL WASTE. RE-USE OR RECYCLE WHEREVER POSSIBLE. ELECTRICAL / ELECTRONIC COMPONENTS MAY CONTAIN SUBSTANCES WHICH ARE HARMFUL TO THE ENVIRONMENT. FOR ENVIRONMENTALLY SOUND METHODS OF DISPOSAL, PLEASE CONTACT YOUR LOCAL GOVERNMENT AUTHORITY.

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