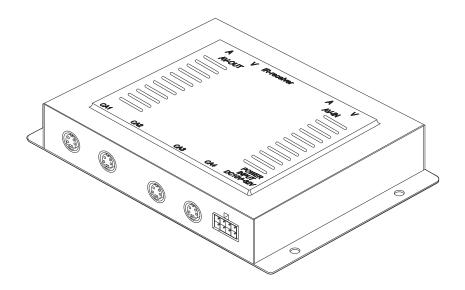
MULTI CAMERA CONTROLLER FOR OBSERVATION MONITOR (MULTIPLE DISPLAY MODE)



Model: Q200

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.	Q200
Serial No.	

WARNING

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



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



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 CAMERA CONTROLLER FOR OBSERVATION MONITOR (MULTIPLE DISPLAY MODE)

Safety

Use only DC 10V ~ DC 32V.

If liquid or dust leaks into the case, turn off power to the unit and consult an experienced technician before using.

2 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

Q200 is designed to be compatible with most voyager observation monitors and cameras.

- 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

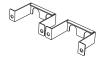
Please check that you have the correct contents before using this product. If any items are missing, please contact your dealer.



Q200 CONTROL BOX

POWER CABLE

RCA CABLE







CABLE BRACKET (2EA)

T/H M4X15L STAINLESS BK (4EA)

M3X6L W/SPRING FLATE WASHER, BK (4EA)

BATTERY





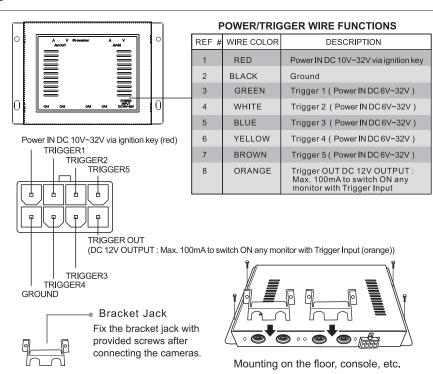


RX Module For Remote Controller

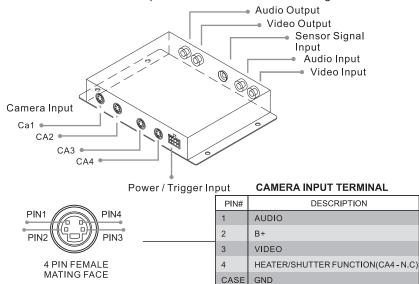


INSTRUCTION MANUAL

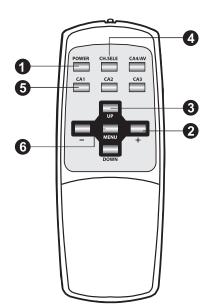
☐ INSTALLATION



- Install the control box on the place which can stand more weight than 5 Kg (11 lb)
- Fix the control box with the provided screws as the drawings below.



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.

5 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.

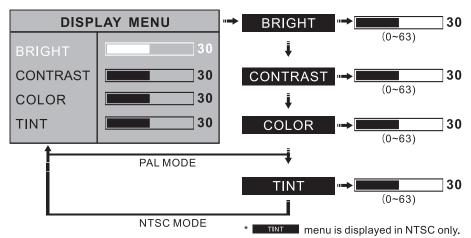
Selectable OSD Menu Disappears within 10 sec if there's no new button pressed.

Press menu button over 2 sec to go back to main menu from submenu.

1. DISPLAY MENU

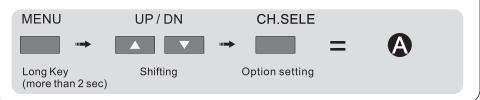


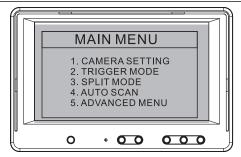
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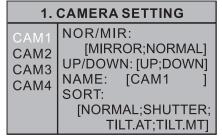
2. SET UP MENU

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.

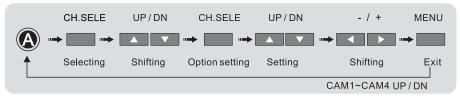




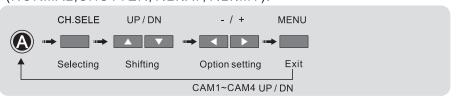
1 CAMERA SETTING



- **NOTE** 1. CAM4 is only available with NORMAL CAMERA.
- 2. 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°).
- 3. 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



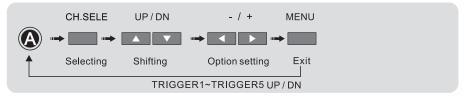
SORT:[NORMAL;SHUTTER; TILT.AT;TILT.MT]
 A sort of camera can be selected.
 (NORMAL;SHUTTER;TILT.AT;TILT.MT).



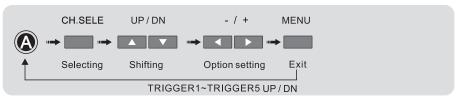
2 TRIGGER MODE

2. TRIGGER MODE TRIGGER1 TRIGGER2 TRIGGER3 TRIGGER4 TRIGGER5 TRIGGER5 TRIGGER5 TRIGGER5 TRIGGER5

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]

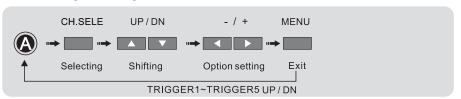


- 1. Each trigger's delay time is adjustable from 0 sec to 20 sec.
- NOTE If one camera is activated by an intermittent signal (e.g. from an indicator light's) the delay must be activated to prevent the picture from flickering.

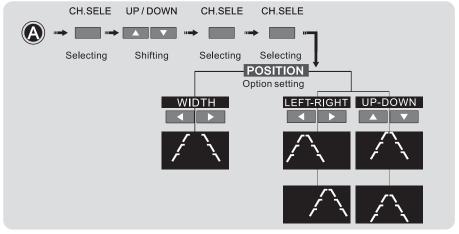
! CAUTION

- 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.

SCALE:[ON;OFF]

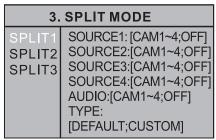


- 1. ON/OFF setting for distance marker when any trigger is engaged.
- DISPLAY SCALE



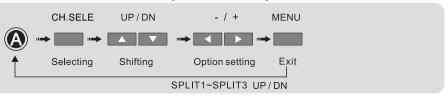
1. POSITION & WIDTH setting for distance marker when any trigger is engaged.

3 SPLIT MODE

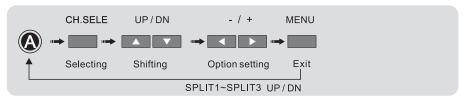


- 1. Multiple display modes can be selected.
- 2. Full/Split/Triple/PIP/Quad

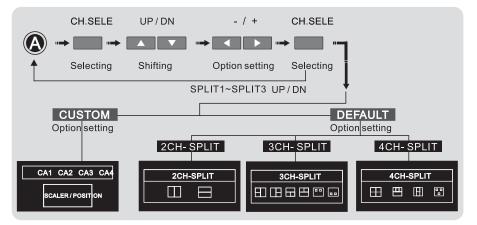
SOURCE1~SOURCE4: [CAM1~4;OFF]



AUDIO: [CAM1~4;OFF]



TYPE:[DEFAULT;CUSTOM]



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.

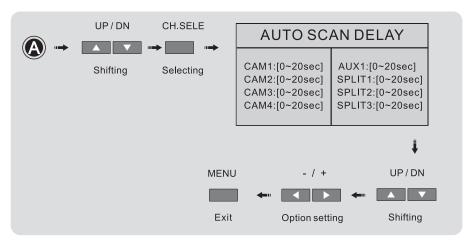
4 AUTO SCAN

4. AUTO SCAN AUTO SCAN:[ON;OFF] AUTO SCAN DELAY

AUTO SCAN:[ON;OFF]



- 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.

6 ADVANCED MENU

5. ADVANCED MENU

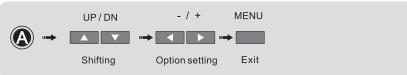
AUTO POWER: [ON; OFF; AUTO]

12V OUT DURING: [ON MODE;TRIGGER IN ONLY] FACTORY RESET

AUTO POWER:[ON;OFF;AUTO]



- NOTE 1. Off Setting: Monitor keeps "Stand-by" mode regardless of the last mode before the ignition key off.
 - 2. On setting: Monitor will be turned on automatically when ignition key on regardless of the last mode of the monitor before the ignition key off.
 - 3. Auto Setting: Monitor keeps the last setting in memory: Monitor will start up "Power-on" mode or "Stand-by" mode according to its last mode before the ignition key off.
- 12V OUT DURING:[ON MODE;TRIGGER IN ONLY]



NOTE 1) 12V OUT DURING: ON MODE

12V DC OUT signal at orange wire when MXN201C is activated manually via the IR remote controller. (Green color LED ON) 0V DC OUT signal at orange wire when MXN201C is in Standby mode. (Red color LED ON)

2) 12V OUT DURING: TRIGGER IN ONLY

12V DC OUT signal at orange wire, only when MXN201C is activated (by 12/24V DC signal at Trigger 1 ~ 5).

0V DC OUT signal at orange wire, when Trigger 1 ~ 5 are not activated.

• FACTORY RESET



NOTE Reset for factory setting.

☐ SF

SPECIFICATIONS

Model: Q200

Power Input	DC 10V~32V	
Power Consumption	Max. 25Watt	
Video System	NTSC / PAL compatible	
Camera input(4CH)	Mini DIN 4, $1Vp-p75\Omega$	
A/V Output(1CH)	RCA, Composite Video Signal, 1V	p-p 75Ω
	RCA, Audio Signal, 150mV RMS,	47K
A/V Input(1CH)	RCA, Composite Video Signal, 1Vp-p 75Ω	
	RCA, Audio Signal, 150mV RMS,	47K
Operating Temp.	-25°C ~75°C (-13°F ~167°F)	
Storage Temp.	-30°C ~85°C (-22°F ~185°F)	
Ambient Condition	Indoor use only	
Vibration	5 G	
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)
	Battery	(1)



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

GOVERNMENT AUTHORITY.