

USER'S GUIDE

BACKEYE[®]
REAR-VIEW CCTV OBSERVATION SYSTEM

PLEASE READ CAREFULLY BEFORE USING AND KEEP FOR REFERENCE.

BRIGADE[®]

Model: BE-856BM

Owner's Record

The model and serial number 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.

Serial No.: _____

WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

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 not express approved in this manual could void your authority to operate this equipment.

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CHARACTERS

- This monitor has been specially designed for Automobile Rear Vision System.
- It can be used the power source from 12V to 32V DC.
- It has two external triggers and the triggers have an off- time- delay for 2 seconds.
- It is automatically turned on when a gear is set on the R position.
- Two cameras can be connected up into the monitor.
- This monitor has a speaker and users can control the sound level from outdoor camera.
- This monitor has back-lights for buttons and this back-lights turn on automatically at night.

SUGGESTIONS

TFT LCD Color Monitor

Safety

- Use only DC 12V to 32V.
- In case that dust or liquid was soaked into the case, please turn off power and consult the experienced technician before using.
- Do not cover air duct for preventing from considerable rise in temperature.

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.
- The monitor is not designed for waterproof.

General cleaning information

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

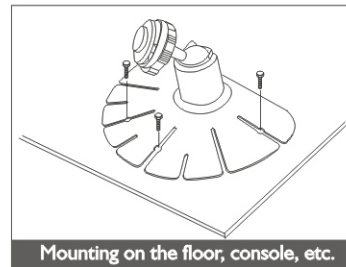
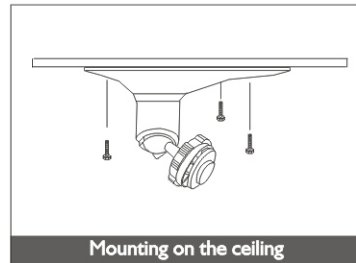
Warning

While driving, do not watch Video

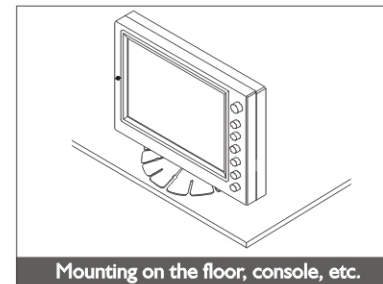
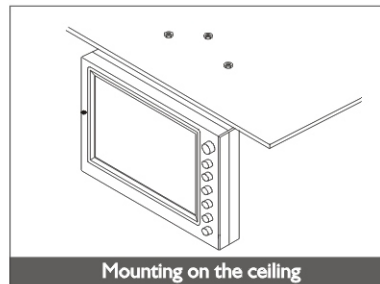
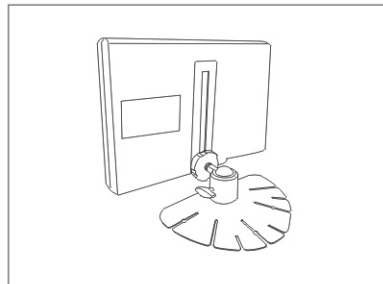
INSTALLATION

Install the monitor on a place which can stand more weight than 5Kg (10.1b).

- Clean the place before installation.
- Remove the protective paper covering the bottom of the bracket.
- Stick the provided bracket on the surface and fix it firmly with the screws.

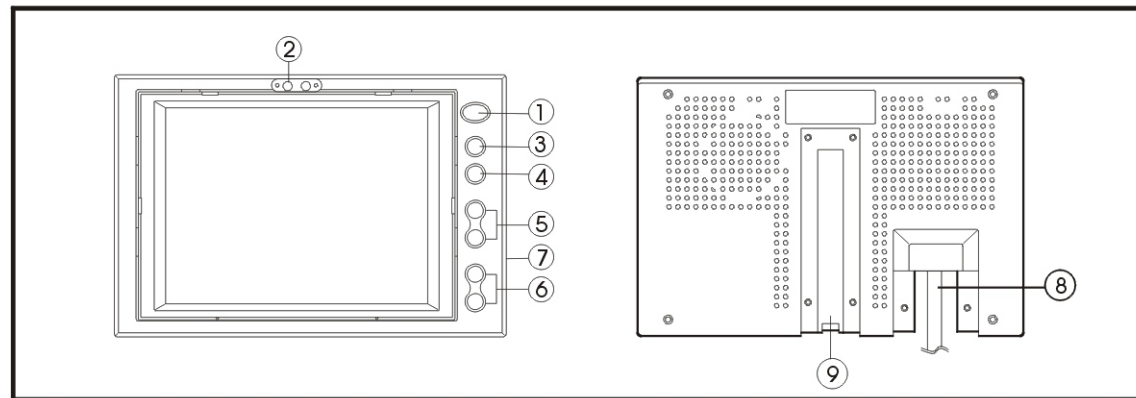


- Adjust the angle of the monitor and fasten the handle screws strongly.



FUNCTIONS

- When power lamp of the monitor is on, the monitor is in stand-by mode. The monitor is not turned off until the ignition key is on the off position.



FUNCTION

- 1) **POWER ON Button and Stand-by Lamp**
 - When the RED lamp is turned on, the monitor indicates power on and stand-by mode.
 - When the POWER ON button is pushed, the lamp color changes to GREEN and the monitor goes into RUN mode.

FUNCTIONS

2) BRIGHTNESS SENSOR (AUTOMATIC BRIGHTNESS CONTROL)

- The brightness of the monitor will be adjusted automatically with the CDS according to the circumstances.
- It is designed as a nightglow button on the monitor for customers' convince using it at night.
 - * This function above is working only when the day/night switch is on.

3) CA.SEL button

- This button selects the image of camera1 and camera2.
- When an image is selected, a camera number appears in left-up or right-up corner for 5 seconds.

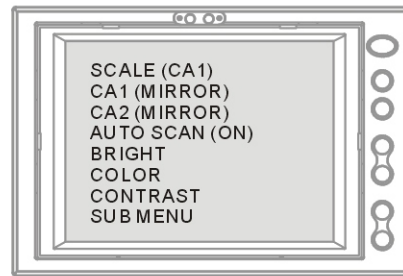
4) MENU button

- If you press the button "MENU", the list of selectable function (BRIGHT, CONTRAST, COLOR, Tint <NTSC system only>) appears on the monitor by turns.
- If you press the button "MENU" for a while (over 1sec.), the list of main menu function appears on the monitor.
- The main Menu list disappears within 5 seconds automatically if there is no new input sign.

❖ FUNCTIONS

- Main MENU explanation

- * Use UP/DOWN buttons to select an item.
- * Use the CA. SEL button to change the content.



PAL system



NTSC system

- ▶▶ SCALE (CA1)
 - This item is just electrical scale that is measuring distance behind vehicle.
 - This scale is available only when triggering signal is inputted.
 - This item has four details as Level 1, Level 2, Level 3 and Level 4.
 - Use the CA. SEL button for choosing one of details.
- ▶▶ CA1 (MIRROR)
 - This item selects a normal or mirror image of the CA1.
 - Use the CA. SEL button for selecting the images.

❖ FUNCTIONS

▶▶ CA2 (MIRROR)

- This item selects a normal or mirror image of the CA2.
- Use the CA.SEL button for selecting the images.

▶▶ AUTO SCAN (ON)

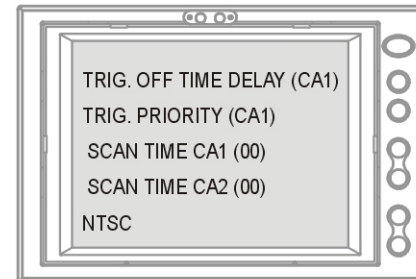
- The monitor has an automatic scan operation.
- The monitor can run or stop the AUTO SCAN function as setting ON or OFF.
- Use the CA.SEL button for selecting ON or OFF.

▶▶ SUB MENU

- This function has a sub-menu
- Sub menu explanation
- Use the MENU button to quit from this menu.

▶ TRIG. OFF TIME DELAY (CA1)

- This item has four sub details as CA1, CA2, All and NONE
- This function is useful for triggering connection to the direction signal lamp. (Delay time 2.0 secretary)
- Use the CA.SEL button for choosing one of the details.



FUNCTIONS

▶ TRIG. PRIORITY (CA1)

- This priority means a camera number showed image between two cameras when the triggers input at the same time.
- Use the CA.SEL button to select the camera number.

▶ SCAN TIME CA1(00 sec), SCAN TIME CA2(00 sec)

- This scan time is maximum 20 seconds.
- Use the VOL UP/DOWN buttons to increase or decrease the number.
- When the AUTO SCAN function which is in main MENU is ON, the monitor shows each image during the scan time.

▶ NTSC / PAL

▶▶ COLOR

- This item changes the color depth of image.
- Use the CA.SEL button to choose this item.
- Use the BRIGHT UP/DOWN buttons to control the color depth.

▶▶ CONTRAST

- This item changes the darkness of image.
- Use the CA.SEL button to choose this item.
- Use the BRIGHT UP/DOWN buttons to control the darkness level.

FUNCTIONS

▶▶ TINT (NTSC system only)

- This item changes the color coordination of image.
- Use the CA.SEL button to choose this item.
- Use the BRIGHT UP/DOWN buttons to control the position between R and G.

5) VOL buttons

- This buttons control sound level from built in speaker.

6) UP/DOWN buttons

- This buttons control scale level on the screen.

7) DAY/NIGHT SWITCH.

- IF the Day/Night Switch is operated automatically otherwise it is off.

8) BRACKET RAIL

- Mounting bracket is adjustable.

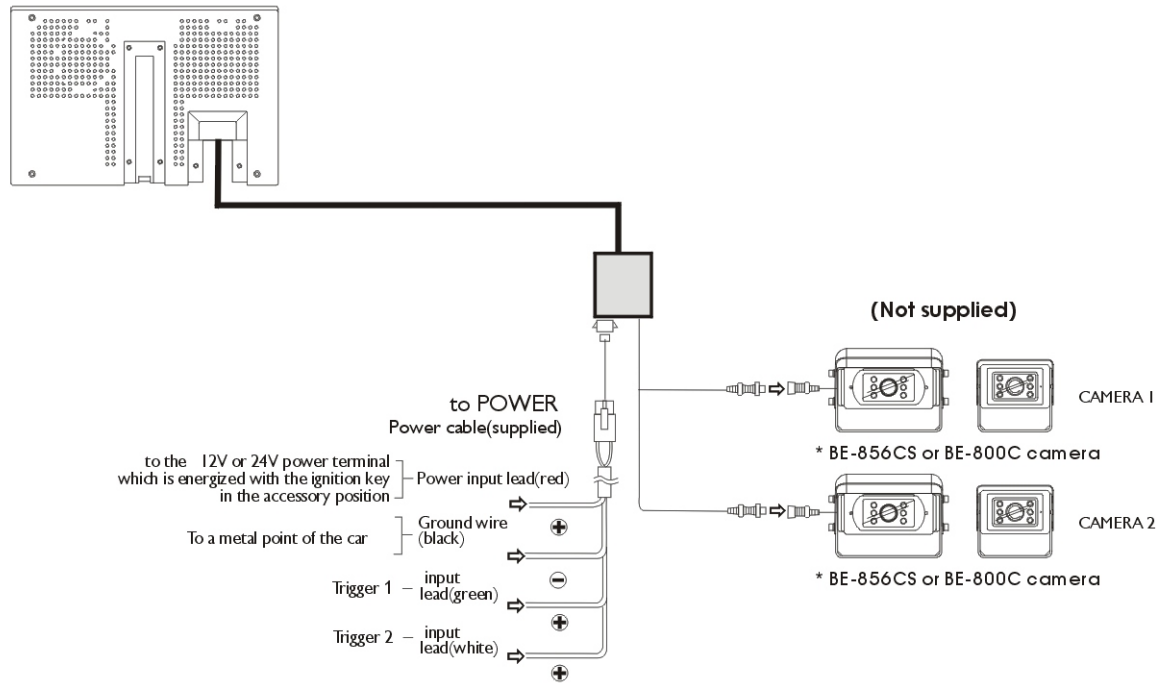
9) INPUT CABLE

- Cameras, Power and triggering wire are connected to the end of this cable assembly.

◆ CONNECTIONS

CAUTION

- Do not supply the electric power the monitor before making the connection.



SPECIFICATIONS

Model No	: BE-856M
Power input	: DC 12 ~ 32 V
Power consumption	: Max 10 Watt
Video signal	: NTSC, PAL standard system
Sync. System	: Internal
LCD panel size	: 5.6 Inch diagonal
Angle of view	: Top: 10°, Bottom: 30°, Left: 45°, Right: 45°
Screen size	: 113.3 (W) × 234 (H)mm
Screen resolution	: 960(W) × 234(H)mm
Dimmer	: Automatic
Color configuration	: R, G, B Stripe
OSD control	: Volume, Brightness, Scale on/off, Image select (Mirror/Normal) Auto scan on/off, 2 Auto triggering, Color, Contrast, Tint(NTSC Only), Vide signal(NTSC/PAL)
Power connector	: 4 Pin wire
Camera connection	: 2 mini-DIN
Speaker	: Impedance 8Ω , 0.2 Watt max.
Finish	: Light Black (ABS)
Operating Temperature	: -10°C ~ 50°C
Storage Temperature	: -25°C ~ +80°C
Ambient condition	: Indoor use only
Vibration	: 4G
Dimension	: 172(W)x115(H)x28(D) mm 6.8(W)x 4.5(H)x1.1 (D) inch
Weight	: Approx. 1.0kg
Supplied Acc'y	: Mounting Bracket (1) Screw kits (1) Power Cord (1)

* Design and specifications are subject to change without notice.

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