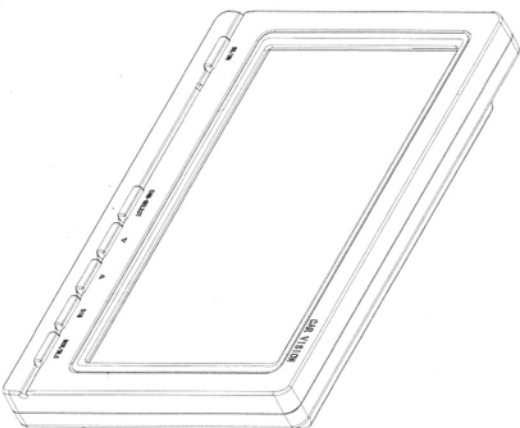


# 7-INCH, 6.1-INCH LCD COLOUR MONITOR MODEL CM-7220, CM-7230, CM-6010, CM-6020 INSTRUCTION MANUAL

This is the custom monitor for Mitsubishi cameras (C-4010A, C-4060A, C-4013, C-5000, C-4110), which are sold separately.



Please read this manual carefully before attempting to install and operate this equipment.  
(Present this manual to the customer.)

U8712281001A  
SM-Y8399A  
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Dec., 2014  
MADE IN JAPAN





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# Please follow it for security by all means

- Please read this column and use it safely before you use.
- Please be sure to follow matters that require attention shown here because the important contents about safety are written.
- Please keep this in the place where the user can read anytime after you read.


● The meaning of "a figure sign" used in this manual is as follows.

	Prohibition		Keep instructions
	Don't take apart		Out of use in a watering place

## Warning

<p><b>If a trouble happens, turn off the main switch of a vehicle.</b></p> <p>Don't use a monitor in an abnormal state where no image is displayed or smoke, unusual noise or odor comes out of a monitor. It can cause a fire. In such a case, stop driving immediately and turn off the main switch of a vehicle.</p> <p>After you check that smoke has not appeared, please ask your dealer for repair.</p>	<p></p> <p><b>Don't damage or rework a cable.</b></p> <p>If you place a heavy object on a cable or bring it close to a heater, it is damaged. If you use a damaged cable, it can cause a fire or an electric shock. If you rework, twist or pull forcibly a cable, it can cause a fire or an electric shock.</p> <p>When a cable is damaged, please ask your dealer immediately.</p>
<p><b>Don't put a monitor in an unstable place.</b></p> <p>Don't put a monitor in an unstable place such as in a wobbly stand or a sloping place. Please install it in a stable place, otherwise it may drop or topple over, causing an injury. Please ask your dealer for installation.</p>	<p></p> <p><b>Don't operate a monitor while driving.</b></p> <p>Please operate the front switch of a monitor when a vehicle is stopping absolutely.</p>
<p><b>Don't put an alien substance.</b></p> <p>If a metal or inflammables enters a monitor, it can cause a fire. In such a case, you stop driving, turn off the main switch of a vehicle, please ask your dealer.</p>	<p></p> <p><b>Don't take apart or remodel a monitor.</b></p> <p>If you take apart a monitor and touch the parts inside, it can cause a fire or an electric shock. Please ask your dealer for internal check, adjustment or repair.</p>
<p><b>Don't drive while watching a monitor.</b></p> <p>A monitor image is different from real distance. If you drive while watching a monitor, you can cause an accident. Use as assistance of front view and rear view. Distance mark of a monitor is aim.</p>	<p></p> <p><b>Don't put a thing on a monitor.</b></p> <p>If an alien substance or water enters a monitor, it can cause a fire. In such a case, you stop driving, turn off the main switch of a vehicle, please ask your dealer.</p>
<p><b>Don't use a monitor in a watering place.</b></p> <p>If you use a monitor in a watering place, it can cause a fire or an electric shock.</p>	<p></p> <p><b>Use the fuse of the same capacity.</b></p> <p>If you use the fuse of different capacity, it can cause a fire.</p>

## Caution

<p><b>Don't put a monitor in the following place.</b></p> <p>Don't put a monitor in the place with much moisture or dust or the place where water / lamp soot hangs.</p> <p>It can cause a fire or an electric shock.</p>	<p></p> <p><b>Don't put a heavy thing on a monitor and don't use it as a step.</b></p> <p>Don't put a heavy thing on a monitor. If you put it on, a monitor can't keep its balance and falls down or drops, it can cause an injury. Especially be careful of a child.</p>
---	--

## Request

<p><b>Please carry carefully.</b></p> <p>Please handle with care because a monitor is fragile.</p>	<p><b>Please handle a cable carefully.</b></p> <p>If you place a heavy object on a cable or bring it close to a heater, a cable is damaged. In such a case, it can cause a trouble. When a cable is damaged, please ask your dealer immediately.</p>
<p><b>Not to damage a cabinet.</b></p> <p>The surface of a cabinet is made of much plastic. If you wipe it with benzine or thinner, it changes in quality or paint comes off. (When you use a chemical dustcloth, please follow its notes.)</p>	<p><b>How to clean a cabinet.</b></p> <p>When you clean a cabinet, please turn off the main switch of a vehicle. Please wipe it with soft cloth lightly. In the case of a terrible dirt, moistened cloth with weakened neutral detergent, wring out it, wipe a cabinet.</p>

## Caution in installation

### Warning

<p>When you are wiring work, take off the minus side cable of a battery.</p> <p>If you don't take off it, it can cause an electric shock or an injury.</p>	<p>Connect a cable according to "WIRING CONNECTION", bind it as not to interfere with driving.</p> <p>If a cable twists round steering, shift lever, break pedal and so on, it can cause a trouble.</p>
<p>When you open a hole on the vehicle body and install a monitor, check position of pipes, a tank and wires and be careful as not to interfere and contact with these.</p> <p>It can cause a fire or a trouble by damaged pipes.</p>	<p>Don't cut coating of a power supply wire and don't use a power supply wire as another power supply.</p> <p>It exceeds current capacity of a wire and it can cause a fire or an electric shock.</p>
<p>Avoid a high heat part when you wire a cable.</p> <p>It melts coating of a cable and short-circuit and it can cause an accident or a fire.</p> <p>Especially be careful at wiring inside engine room.</p>	<p>When you use a bolt or a nut and connect the GND line, don't use the screw of important safety parts that steering, seat rail or break.</p>

### Caution

<p>Don't sandwich a cable in the moving part that vehicle body, screw or seat rail.</p> <p>It can cause an accident, a fire or an electric shock by disconnection or short-circuit.</p>	<p>Don't install a monitor in the place where be exposed rain or water hangs or has much moisture or dust.</p> <p>If water, moisture or dust enters a monitor, it can cause a smoke or a fire.</p>
<p>When you use the screw of a vehicle, install surely as not to loosen the screw.</p> <p>It can cause an accident or a trouble.</p>	<p>Distance mark of a monitor is aim.</p> <p>Distance mark isn't meant absolute distance from a vehicle.</p>

### Caution

<p>Check mirror image (Same as back mirror) when you use for check rear view.</p> <p>If you mistake setting, mistake check of right and left, it can cause an accident.</p>	<p>When you open a hole on the vehicle body and install a monitor or wire a cord, seal up a gap of the opened hole and a gap with a cord with silicon glue.</p> <p>Exhaust gas or water invade in the room from a gap, it can cause an accident.</p>
<p>After wiring a cord, fix it by a clamp and an insulating tape.</p> <p>If a cord comes in contact with a vehicle parts, it wears out and short-circuit, it can cause an accident or a fire.</p>	<p>When you open a hole on the vehicle body and wire a cord, use an insulation-related grommet.</p> <p>By contact with an opening and a cord, it wears out and short-circuit, it can cause an accident or a fire.</p>
<p>Use an attached part according to the appointment by all means.</p> <p>If you use a part except appointment, damages parts inside a monitor, can't fix surely, comes off, it can cause an accident or a trouble.</p>	<p>Do regular connection.</p> <p>If you mistake connection, it can cause an accident or a fire.</p>

## FEATURES

### (1) FOUR KINDS OF MONITORS

ACCORDING TO LCD SIZE AND NUMBER OF CONNECTION WITH CAMERA AND EXTERNAL VIDEO INPUT

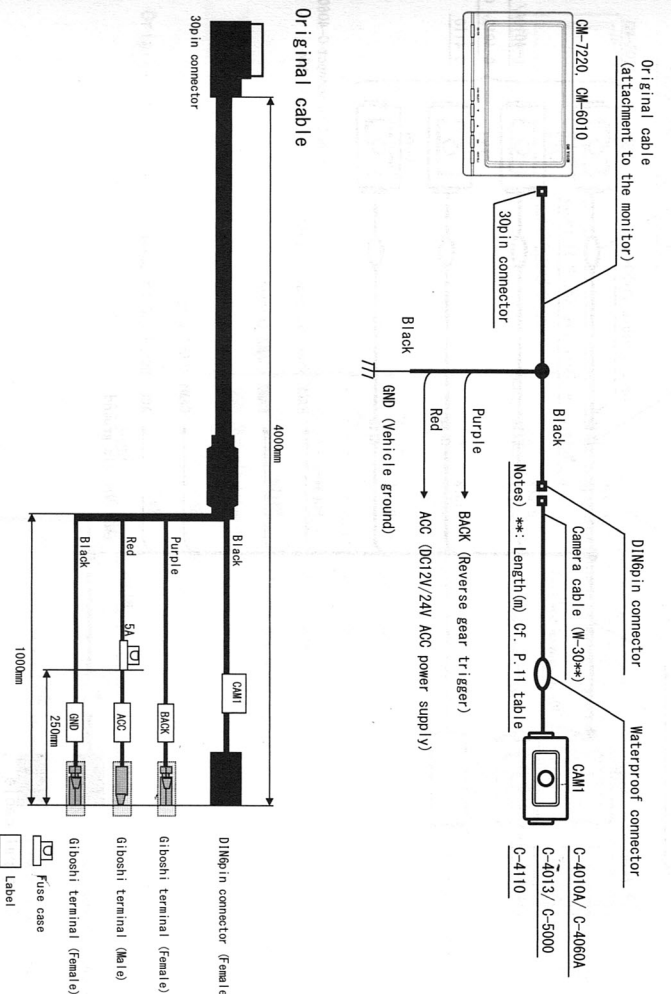
- ① CM-7220  
7-inch, one camera connection, audio output function (speaker) is active
- ② CM-7230  
7-inch, four cameras connection, audio output function (speaker) is active
- ③ CM-6010  
6.1-inch, one camera connection, audio output function (speaker) is inactive
- ④ CM-6020  
6.1-inch, two cameras and one external video input connection, audio output function (speaker) is active
- (2) WITH 7-INCH, 6.1-INCH WIDE TFT COLOUR LCD, HIGH VISIBILITY  
The monitor secures high-level day & night visibility. It covers rear view widely in combination with Mitsubishi camera.
- (3) HIGH VIBRATION-RESISTANT PERFORMANCE  
The monitor secures enough durability inside the vibrating vehicle.
- (4) DISTANCE MARK ENABLES PERSPECTIVE EASILY  
By displaying distance mark on the monitor, it's easy to get perspective and you can secure more security.
- (5) LCD ASPECT RATIO 16:9, CHANGE FULL, NORMAL OR WIDE
- (6) CHANGE CAMERA IMAGE REVERSE ON OR OFF
- (7) NO NEED TO SELECT BATTERY VOLTAGE, DC12V/24V SYSTEM
- (8) CHANGE CAMERA IMAGES BY FRONT SWITCH WITH MULTIPLE CAMERAS (ONLY CM-7230 AND CM-6020)
- (9) AUTO DISPLAY CAMERA IMAGE BY REVERSE GEAR OR WINKER

## UNIT PARTS

- (1) Monitor . . . . . 1
- (2) Original Cable . . . . . 1
- (3) Instruction manual (This manual) . . . . . 1

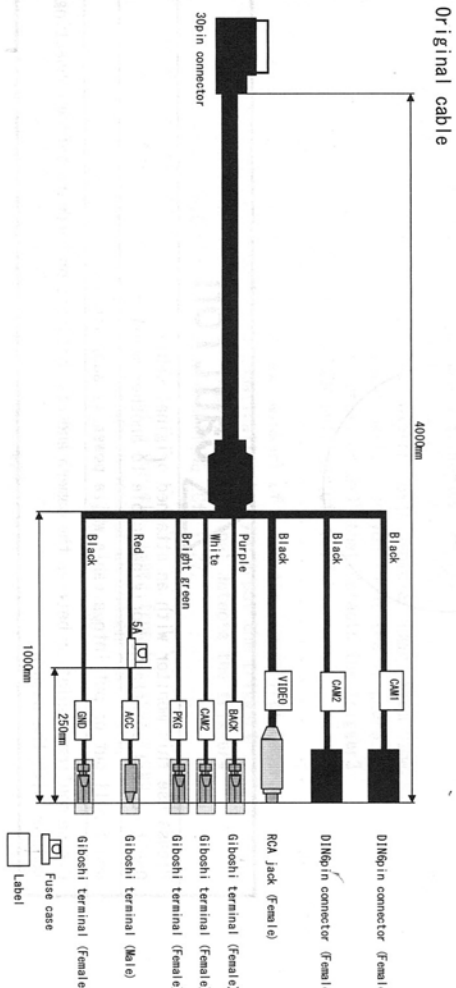
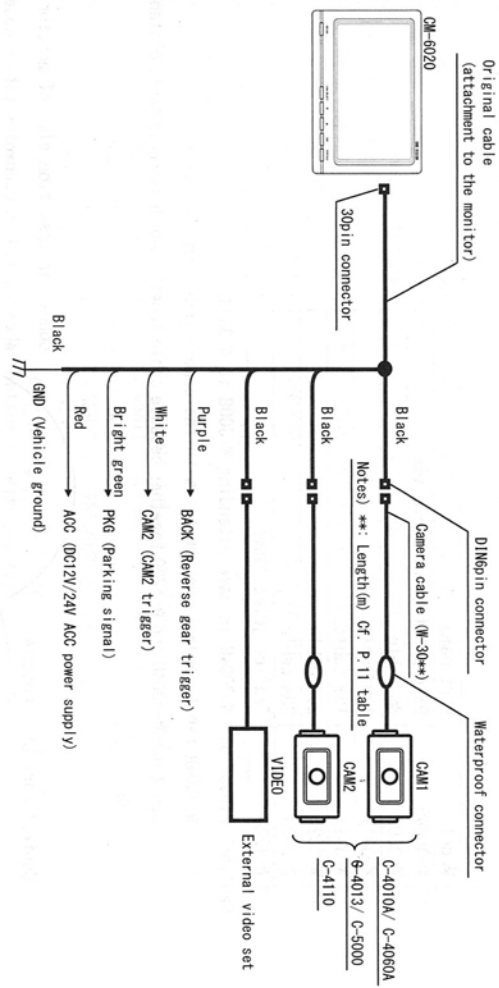
## WIRING CONNECTION

[CM-7220, CM-6010]





[CM-6020]



Please connect the monitor and cameras with the camera cables which are sold separately.  
Please refer to the following table when you choose the camera cables.

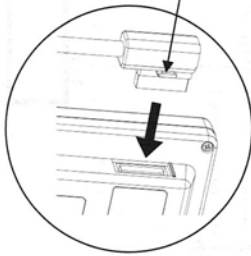
Model	Part name
W-3004R	Waterproof joint cable (4m)
W-3008	8m cable
W-3012	12m cable
W-3015	15m cable
W-3020	20m cable
W-3023	23m cable
W-1220	Trailer joint (35m)

Caution) Please use W-3004R in case extending W-3008 to W-3023.

W-3004R can't connect the monitor with the camera individually.

Don't use W-3004R and W-1220 together because cable length is over maximum cable distance 35m.

Central part of connector



Connector insertion slot of monitor  
When you pull a connector out, please pull it out while pushing the central part of it.

## Caution

Please use this monitor with an attached original cable.

Don't connect an attached original cable to another monitor.

Don't pull out or put into a cable while power is supplied.

Please confirm insulation between the camera and its installation hardware before connecting the monitor with the camera.

## ORIGINAL CABLE CONNECTION

### (1) EACH CABLE CONNECTION

- ① CAM1 (Camera1) . . . . . (Black)  
Supports the shutter camera (C-4060A) and the audio camera.
- ② CAM2 (Camera2) . . . . . (Black)  
Supports the shutter camera (C-4060A) and the audio camera.
- ③ CAM3 (Camera3) . . . . . (Black)  
Not support the shutter camera (C-4060A) and the audio camera.
- ④ CAM4 (Camera4) . . . . . (Black)  
Not support the shutter camera (C-4060A) and the audio camera.
- ⑤ VIDEO (External video input) . . . . . (Black)  
Enables to connect with the external video set, the power adaptor (P-0400) and so on.
- ⑥ BACK (Reverse gear trigger) . . . . . (Purple)  
By connecting to the reverse gear of a vehicle, image from Camera1 and distance mark is displayed on the monitor automatically when you input the reverse gear. You can set polarity (ACC power supply or GND) that detects the reverse gear at the menu "TRIGGER1" of "TRIGGER SETTING (Cf. P.27)".
- ⑦ CAM2 (CAM2 trigger) . . . . . (White)  
By connecting to the trigger2 (ex. winker) of a vehicle, image from Camera2 is displayed on the monitor automatically when you input the trigger2. You can set polarity (ACC power supply or GND) that detects the trigger2 at the menu "TRIGGER2" of "TRIGGER SETTING (Cf. P.27)".
- ⑧ CAM3 (CAM3 trigger) . . . . . (Brown)  
By connecting to the trigger3 (ex. winker) of a vehicle, image from Camera3 is displayed on the monitor automatically when you input the trigger3. You can set polarity (ACC power supply or GND) that detects the trigger3 at the menu "TRIGGER3" of "TRIGGER SETTING (Cf. P.27)".
- ⑨ CAM4 (CAM4 trigger) . . . . . (Grey)  
By connecting to the trigger4 (ex. winker) of a vehicle, image from Camera4 is displayed on the monitor automatically when you input the trigger4. You can set polarity (ACC power supply or GND) that detects the trigger4 at the menu "TRIGGER4" of "TRIGGER SETTING (Cf. P.27)".
- ⑩ PKG (Parking signal) . . . . . (Bright green)  
By connecting to the parking brake of a vehicle, image from External video set can be displayed on the monitor while you put on the parking brake. Polarity that detects the parking brake is fixed "LOW (GND)".
- ⑪ ACC (DC12V/24V ACC power supply) . . . . . (Red)  
Please connect to DC12V/24V ACC power supply.
- ⑫ GND (Vehicle ground) . . . . . (Black)  
Please connect to vehicle ground.

Notes) In case multiple triggers among CAM2 (CAM2 trigger) to CAM4 (CAM4 trigger) detect winker signals, the monitor judges them as hazard and makes no reaction.

## (2) CABLE SUPPORT STATE OF EACH MODEL

### ① Camera and External video input

Model	CAM1	CAM2	CAM3	CAM4	VIDEO
CM-7220	Yes	No	No	No	No
CM-7230	Yes	Yes	Yes	Yes	No
CM-6010	Yes	No	No	No	No
CM-6020	Yes	Yes	No	No	Yes

### ② Trigger and etc.

Model	BACK	CAM2	CAM3	CAM4	PKG	ACC	GND
CM-7220	Yes	No	No	No	No	Yes	Yes
CM-7230	Yes	Yes	Yes	No	No	Yes	Yes
CM-6010	Yes	No	No	No	No	Yes	Yes
CM-6020	Yes	Yes	No	No	Yes	Yes	Yes

## Caution

CAM3 (Camera3) and CAM4 (Camera4) doesn't support shutter control. Don't connect the shutter camera (C-4060A) to CAM3 (Camera3) and CAM4 (Camera4).

CAM3 (Camera3) and CAM4 (Camera4) doesn't support audio input. Don't connect the audio camera to CAM3 (Camera3) and CAM4 (Camera4). However the audio camera isn't sold in Dec. 2014.

The metal part of VIDEO terminal is a signal line. Don't contact it without the external video input terminal.

The priority of the trigger is in order Camera1 (BACK), Camera2 (CAM2), Camera3 (CAM3) and Camera4 (CAM4). In case the monitor detects multiple triggers, image of the highest priority camera is displayed.

CAM2 (CAM2 trigger) to CAM4 (CAM4 trigger) support connection with winker.

In case multiple triggers among CAM2 (CAM2 trigger) to CAM4 (CAM4 trigger) detect winker signals, the monitor judges them as hazard and makes no reaction.

External video image can be displayed only when the parking brake is enabled.

Don't connect directly BACK (Reverse gear trigger) to DC12V/24V ACC power supply or vehicle ground. It causes troubles that distance mark keeps displaying on, images aren't switched, switches don't work.

Don't connect directly CAM2 (CAM2 trigger) to CAM4 (CAM4 trigger) to DC12V/24V ACC power supply or vehicle ground. It causes troubles that images are not switched, switches don't work.

If you don't use BACK (Reverse gear trigger), please cover and insulate BACK terminal with a protection tube surely.

If you don't use Camera2 to Camera4 or CAM2 (CAM2 trigger) to CAM4 (CAM4 trigger), please cover and insulate CAM2 (CAM2 trigger) to CAM4 (CAM4 trigger) terminals with protection tubes surely.

If you don't use External video input, please cover and insulate PKG terminal with a protection tube surely.

While the monitor detects the trigger regardless of camera connection state, switches don't work. In case you change detection polarity, please push both DIM switch and NOR/BLC switch for over 2 seconds and change polarity setting at the menu "TRIGGER SETTING (Cf. P.27)".

## HOW TO REPLACE THE FUSE

### (1) How to remove the fuse cap



Figure1

### (2) How to replace the fuse

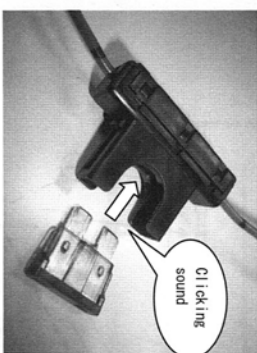


Figure3

### (3) How to mount the fuse cap

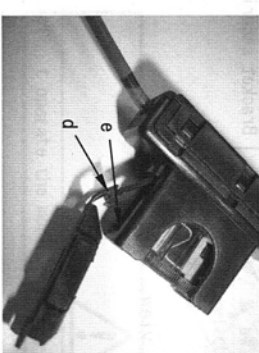


Figure4

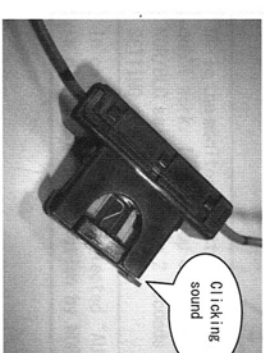


Figure6

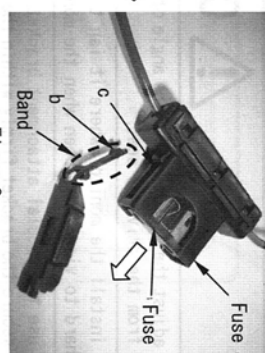


Figure2

### [How to remove the fuse cap and replace the fuse]

- ① Raise Part-a of the fuse cap and remove it. (Figure1)
  - ② Pinch the fuse and pull it out in the arrow's direction. (Figure2)
  - ③ When you put another fuse back in place, insert it surely to make clicking sound. (Figure3)
- <Fuse Specifications>  
Pacific Engineering Corp., Blade type  
ACC: AUTO FUSE 5A (5 Amperes)

## Caution

Please use a 5A fuse as specified.

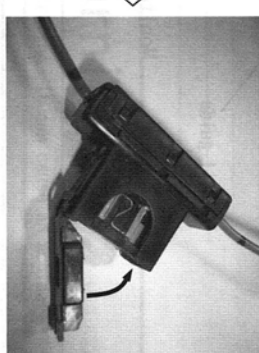


Figure5

### [How to mount the fuse cap]

- ① Insert Part-b of the band into Part-c of the fuse case. (Figure2, Figure4)
- ② Hook Part-d of the band to Part-e of the fuse case. (Figure4, Figure5)
- ③ Close the fuse cap. When you close it, close it surely to make clicking sound. (Figure6)
- ④ Check that the monitor works properly before using it.

## HOW TO INSTALL

### Caution

Please adjust the direction and the angle of the monitor so that you can see its screen in front of you from the driver's seat.

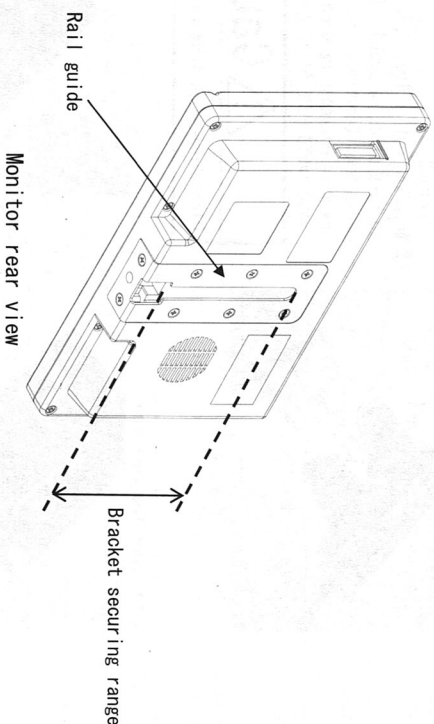
Please install the monitor where it isn't exposed to direct sunlight.

It is hard to view the screen when the monitor is received direct sunlight.

Please use the special attachment bracket.

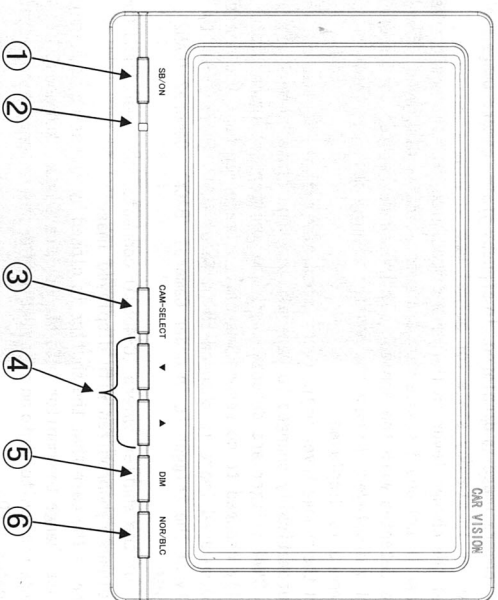
Please secure the bracket firmly within the bracket securing range. (Cf. the following figure)

In case fixing isn't enough, it can cause an accident that the monitor drops.



## PARTS NAME & FUNCTIONS

(1) PARTS NAME



No.	PARTS NAME
①	SB/ON switch
②	Power indicator (LED)
③	CAM-SELECT switch
④	▼/▲ switch
⑤	DIM switch
⑥	NOR/BLC switch

### Warning

Don't operate the monitor switch during driving. It can cause an accident.

### Caution

While the monitor detects the trigger regardless of camera connection state, switches don't work. In case you change detection polarity, please push both DIM switch and NOR/BLC switch for over 2 seconds and change polarity setting at the menu "TRIGGER SETTING (Cf. P. 27)".

In case camera image selected "AUDIO" at the menu "CAMERA(2) SETTING (Cf. P. 25)" is displayed, BLC function by NOR/BLC switch is inactive.

## (2) FUNCTIONS

### ① SB/ON switch

This switch changes the monitor state between on and standby.

Every time you push this switch, the monitor state is switched between on and standby. In on state, camera image is displayed. In standby state, camera image isn't displayed. Please set the monitor in standby state for normal use.

When you put the change lever in the reverse position with the monitor set in standby state, Camera1 image (rear) and distance mark are automatically displayed. When CAM2 trigger to CAM4 trigger are detected with the monitor set in standby state, corresponding camera image is automatically displayed. In case the monitor detects multiple triggers, image of the highest priority camera is displayed.

When you put the change lever in the reverse position with the monitor set in on state, displayed image is automatically changed to Camera1 image and distance mark are displayed. When CAM2 trigger to CAM4 trigger are detected with the monitor set in on state, displayed image is automatically changed to corresponding camera image. In case the monitor detects multiple triggers, displayed image is changed to image of the highest priority camera.

The priority of the trigger is in order Camera1 (BACK), Camera2 (CAM2), Camera3 (CAM3) and Camera4 (CAM4).

The shutter of the shutter camera (G-4060A) connected to Camera1 and Camera2 automatically opens and closes synchronized with displayed image.

(Notes) There is the case that the shutter is closed by vibration of a vehicle. In such a case, please change the monitor into standby state once. And about 10 seconds later, please change the monitor into on state again. The shutter operation recover to a normal state.

### ② Power indicator (LED)

This LED lights up when the monitor is in on state.

It lights up at less intensity and informs that the monitor is in standby state.

### ③ CAM-SELECT switch

1) Camera select (short push : less than 2 seconds)

Every time you push this switch, displayed image is switched.

[CM-7220, CM-6010]

Displayed image isn't switched because the number of camera input is one.

[CM-7230]

Displayed image is switched in order Camera1 → Camera2 → Camera3 → Camera4 →

Camera1 . . . regardless of camera connecting state.

[CM-6020]

Displayed image is switched in order Camera1 → Camera2 → External video input →

Camera1 . . . regardless of camera connecting state.

However, external video image is displayed only when the parking brake is enabled.

2) Menu call (long push : over 2 seconds)

When you push this switch for over 2 seconds, the monitor displays blue back and "MENU TOP (Cf. P.20)" appears.

In the menu, this switch functions as execution switch. If you push this switch for over 2 seconds again, the menu ends. After leaving the monitor alone for 10 seconds, the menu ends.

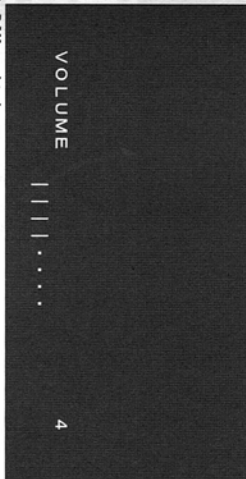
(Notes) Please make sure to stop a vehicle in a safe place when you operate the menu.

### ④ ▼ / ▲ switch

This switch adjusts the volume only when camera image selected "AUDIO" at the menu "CAMERA1 (2) SETTING (Cf. P.25)" is displayed. You can adjust the volume by 9 steps from 0 to 8.

However, you can't adjust the volume of CM-6010 because it doesn't have audio output function. In the menu, this switch functions as down switch / up switch.

※ The audio camera isn't sold in Dec., 2014.

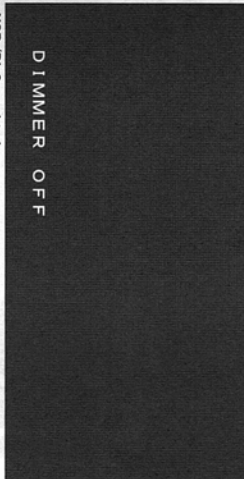


### ⑤ DIM switch

This switch changes the display brightness.

The display becomes dark in ON and bright in OFF. Please set this as easy to see.

Every time you push this switch, the dimmer state is switched between on and off. In the menu, this switch functions as left switch.



### ⑥ NOR/BLC switch

This switch improves the view of image when it is difficult to see because of a backlight. When you push this switch once, BLC control operates for the time set at the menu "BLC TIMER (Cf. P.23)".

However, in case camera image selected "BLC" at the menu "CAMERA1 (2) SETTING (Cf. P.25)" is displayed, BLC function is active.

As soon as BLC control ends, camera image returns a normal state.

In the menu, this switch functions as right switch.

(Notes) When you push both DIM switch and NOR/BLC switch for over 2 seconds, the monitor displays blue back and "TRIGGER SETTING (Cf. P.27)" appears.

If you push both DIM switch and NOR/BLC switch for over 2 seconds again, the trigger setting menu ends. After leaving the monitor alone for 10 seconds, the trigger setting menu ends. The trigger setting menu can be operated whether the monitor detects the trigger or not. Please make sure to stop a vehicle in a safe place when you operate the trigger setting menu.



## MENU & TRIGGER SETTING

When you push CAM-SELECT switch for over 2 seconds, the monitor displays blue back and "MENU TOP" (Cf. P. 20) "appears". When you push both DIM switch and NOR/BLC switch for over 2 seconds, the monitor displays blue back and "TRIGGER SETTING" (Cf. P. 27) "appears".

The default setting of the monitor is as follows.

### (1) Switch setting

Switch name	Default setting
SB/ON switch	Standby state
CAM-SELECT switch	CAMERA1
▼ / ▲ switch	4 (volume)
DIM switch	DIMMER OFF
NOR/BLC switch	NORMAL (BLC OFF)

### (2) Menu and trigger setting

[CM-7220, CM-7230]

Menu item	Default setting	Menu item	Default setting
LANGUAGE SETTING	JAPANESE	CAMERA1 SETTING	BLC
BRIGHTNESS (DIM=OFF)	8	CAMERA2 SETTING	BLC
BRIGHTNESS (DIM=ON)	2	AUDIO SETTING	DISPLAY
CONTRAST	0	CAMERA1 REVERSE	OFF
COLOUR	0	CAMERA2 REVERSE	OFF
TINT	0	CAMERA3 REVERSE	OFF
SHARPNESS	0	CAMERA4 REVERSE	OFF
CAMERA1 ASPECT	FULL	RESET	NO
CAMERA2 ASPECT	FULL	TRIGGER1	HIGH
CAMERA3 ASPECT	FULL	TRIGGER2	LOW
CAMERA4 ASPECT	FULL	TRIGGER3	LOW
DISTANCE MARK	3M-A	TRIGGER4	LOW
BLC TIMER	5sec		

[CM-6010, CM-6020]

Menu item	Default setting	Menu item	Default setting
LANGUAGE SETTING	JAPANESE	DISTANCE MARK	3M-A
BRIGHTNESS (DIM=OFF)	8	BLC TIMER	5sec
BRIGHTNESS (DIM=ON)	2	CAMERA1 SETTING	BLC
CONTRAST	0	CAMERA2 SETTING	BLC
COLOUR	0	AUDIO SETTING	DISPLAY
TINT	0	CAMERA1 REVERSE	OFF
SHARPNESS	0	CAMERA2 REVERSE	OFF
CAMERA1 ASPECT	FULL	RESET	NO
CAMERA2 ASPECT	FULL	TRIGGER1	HIGH
VIDEO ASPECT	FULL	TRIGGER2	LOW

### 1 MENU TOP

► BACK  
► PICTURE  
► FUNCTION  
► INPUT  
日本語 [ ENGLISH ]  
RESET

Please select a menu item by ▼ / ▲ switch.

The value inside [ ] is a current setting.

When you push CAM-SELECT switch, the monitor enters the chosen item.

PICTURE ⇒ Cf. P. 20  
FUNCTION ⇒ Cf. P. 23  
INPUT ⇒ Cf. P. 25  
RESET ⇒ Cf. P. 26

Please select language setting from "日本語 (JAPANESE)" or "ENGLISH" by DIM switch and NOR/BLC switch.

When you select "BACK", the menu ends.

### 1-1 PICTURE

When you select "PICTURE" at "MENU TOP", the following screen appears.

You can adjust picture of Camera or External video input which was displayed before the menu is called.

You can adjust picture of each Camera and External video input individually.

► BACK  
BRIGHTNESS (DIM=OFF) [ 8 ] ►  
BRIGHTNESS (DIM=ON) [ 2 ] ►  
CONTRAST [ 0 ] ►  
COLOUR [ 0 ] ►  
TINT [ 0 ] ►  
SHARPNESS [ 0 ] ►

Please select a menu item by ▼ / ▲ switch.

Each value inside [ ] is a current setting.

When you push CAM-SELECT switch, the monitor enters the chosen item.

BRIGHTNESS (DIM=OFF) ⇒ Cf. P. 21  
BRIGHTNESS (DIM=ON) ⇒ Cf. P. 21  
CONTRAST ⇒ Cf. P. 21  
COLOUR ⇒ Cf. P. 22  
TINT ⇒ Cf. P. 22  
SHARPNESS ⇒ Cf. P. 22

When you select "BACK", the monitor returns to "MENU TOP".



1-1-1 BRIGHTNESS (DIM=OFF)  
When you select "BRIGHTNESS (DIM=OFF)" at "PICTURE", the following screen appears.

BRIGHTNESS (DIM=OFF) 8  
| | | | | | | | . . . . .

Please set brightness (DIM=OFF) from 0 to 10 by DIM switch and NOR/BLC switch.  
The right side value is a current setting.  
As much as the value increases, brightness gets intense. As much as the value decreases, brightness gets faint.  
When you push CAM-SELECT switch, the monitor memorizes the set value and returns to "PICTURE".

1-1-2 BRIGHTNESS (DIM=ON)  
When you select "BRIGHTNESS (DIM=ON)" at "PICTURE", the following screen appears.

BRIGHTNESS (DIM=ON) 2  
| | . . . . .

Please set brightness (DIM=ON) from 0 to 10 by DIM switch and NOR/BLC switch.  
The right side value is a current setting.  
As much as the value increases, brightness gets intense. As much as the value decreases, brightness gets faint.  
When you push CAM-SELECT switch, the monitor memorizes the set value and returns to "PICTURE".

1-1-3 CONTRAST  
When you select "CONTRAST" at "PICTURE", the following screen appears.

CONTRAST  
| | | | | . . . . . 0

Please set contrast from -5 to +5 by DIM switch and NOR/BLC switch.  
The right side value is a current setting.  
As much as the value increases, contrast gets intense. As much as the value decreases, contrast gets faint.  
When you push CAM-SELECT switch, the monitor memorizes the set value and returns to "PICTURE".

1-1-4 COLOUR  
When you select "COLOUR" at "PICTURE", the following screen appears.

COLOUR  
| | | | | . . . . . 0

Please set colour intensity from -5 to +5 by DIM switch and NOR/BLC switch.  
The right side value is a current setting.  
As much as the value increases, colour gets intense. As much as the value decreases, colour gets faint.  
When you push CAM-SELECT switch, the monitor memorizes the set value and returns to "PICTURE".

1-1-5 TINT  
When you select "TINT" at "PICTURE", the following screen appears.

TINT  
| | | | | . . . . . 0

Please set tint from -5 to +5 by DIM switch and NOR/BLC switch.  
The right side value is a current setting.  
As much as the value increases, green gets intense. As much as the value decreases, red gets intense.  
When you push CAM-SELECT switch, the monitor memorizes the set value and returns to "PICTURE".

1-1-6 SHARPNESS  
When you select "SHARPNESS" at "PICTURE", the following screen appears.

SHARPNESS  
| | | | | . . . . . 0

Please set outline sharpness from -5 to +5 by DIM switch and NOR/BLC switch.  
The right side value is a current setting.  
As much as the value increases, outline gets intense. As much as the value decreases, outline gets faint.  
When you push CAM-SELECT switch, the monitor memorizes the set value and returns to "PICTURE".

## 1-2 FUNCTION

When you select "FUNCTION" at "MENU TOP", the following screen appears.  
Please set correctly in conformity with purpose of use, vehicle and camera.

[CM-7220, CM-7230]

```

▶ BACK
CAMERA1 ASPECT [FULL] ▶
CAMERA2 ASPECT [FULL] ▶
CAMERA3 ASPECT [FULL] ▶
CAMERA4 ASPECT [FULL] ▶
DISTANCE MARK [3M-A] ▶
BLC TIMER [5sec]
  
```

[CM-6010, CM-6020]

```

▶ BACK
CAMERA1 ASPECT [FULL] ▶
CAMERA2 ASPECT [FULL] ▶
VIDEO ASPECT [FULL] ▶
DISTANCE MARK [3M-A] ▶
BLC TIMER [5sec]
  
```

Please select a menu item by ▼ / ▲ switch.

Each value inside [ ] is a current setting.

When you push CAM-SELECT switch, the monitor enters the chosen item.

```

CAMERA1 ASPECT ⇒ Cf. P. 24
CAMERA2 ASPECT ⇒ Cf. P. 24 ※ This item is grey and can't be set at CM-7220 and CM-6010.
CAMERA3 ASPECT ⇒ Cf. P. 24 ※ This item is grey and can't be set at CM-7220.
CAMERA4 ASPECT ⇒ Cf. P. 24 ※ This item is grey and can't be set at CM-7220.
VIDEO ASPECT ⇒ Cf. P. 24 ※ This item is grey and can't be set at CM-6010.
DISTANCE MARK ⇒ Cf. P. 24
  
```

Please select setting time of exposure compensation from [5sec], [10sec] or [30sec] by DIM switch and NOR/BLC switch at "BLC TIMER".

When you select "BACK", the monitor returns to "MENU TOP".

## 1-2-1 CAMERA1 ASPECT

When you select "CAMERA1 ASPECT" at "FUNCTION", the following screen appears.

```

CAMERA1 ASPECT
[FULL] NORMAL WIDE
  
```

Please select aspect ratio by DIM switch and NOR/BLC switch.

The value inside [ ] is a current setting.

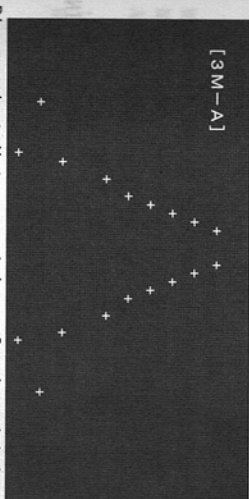
- (1) FULL : Aspect ratio = 16:9 ※ Image is expanded equally in horizontal direction.
- (2) NORMAL : Aspect ratio = 4:3
- (3) WIDE : Aspect ratio = 16:9 ※ Distortion by expansion is reduced at center.

When you push CAM-SELECT switch, the monitor memorizes the set value and returns to "FUNCTION".  
According to the model, you can set "CAMERA2 ASPECT" to "CAMERA4 ASPECT" and "VIDEO ASPECT" in the same way.

## 1-2-2 DISTANCE MARK

When you select "DISTANCE MARK" at "FUNCTION", the following screen appears.

[3M-A]



Please select distance mark in conformity with installation height and camera by DIM switch and NOR/BLC switch.

The value inside [ ] is a current setting.

- (1) 3M-A : Height = 3m, Camera = C-5000
- (2) 2M-A : Height = 2m, Camera = C-5000
- (3) 3M-B : Height = 3m, Camera = C-4010A/ C-4060A/ C-4110
- (4) 2M-B : Height = 2m, Camera = C-4010A/ C-4060A/ C-4110
- (5) OFF : Distance mark isn't displayed.

Colour of distance mark means the following distance points.

- (1) Red : 0m
- (2) Yellow : 1m, 2m from under side
- (3) Green : 3m, 5m, 7m, 10m, 15m from under side.

When you push CAM-SELECT switch, the monitor memorizes the set value and returns to "FUNCTION".  
Notes) Distance mark isn't meant absolute distance from a vehicle. Please use it as aim.

### 1-3 INPUT

When you select "INPUT" at "MENU TOP", the following screen appears. Please set correctly in conformity with purpose of use and camera.

[CM-7220, CM-7230]

```

▶ BACK
CAMERA1 SETTING [BLC ]
CAMERA2 SETTING [BLC ]
AUDIO SETTING [DISPLAY]
CAMERA1 REVERSE [OFF]
CAMERA2 REVERSE [OFF]
CAMERA3 REVERSE [OFF]
CAMERA4 REVERSE [OFF]
▶

```

[CM-6010, CM-6020]

```

▶ BACK
CAMERA1 SETTING [BLC ]
CAMERA2 SETTING [BLC ]
AUDIO SETTING [DISPLAY]
CAMERA1 REVERSE [OFF]
CAMERA2 REVERSE [OFF]
▶

```

Please select a menu item by ▼ / ▲ switch.

Each value inside [ ] is a current setting.

CAMERA1 SETTING ※ This item is grey and can't be set at CM-6010.

CAMERA2 SETTING ※ This item is grey and can't be set at CM-7220 and CM-6010.

AUDIO SETTING ※ This item is grey and can't be set at CM-7220 and CM-6010.

Notes) In case the audio camera is connected, please set "CAMERA1 SETTING", "CAMERA2 SETTING" and "AUDIO SETTING" in conformity with purpose of use.

However, the audio camera isn't sold in Dec., 2014.

When you push CAM-SELECT switch, the monitor enters the chosen item.

CAMERA1 REVERSE ⇒ Cf. P. 26

CAMERA2 REVERSE ⇒ Cf. P. 26 ※ This item is grey and can't be set at CM-7220 and CM-6010.

CAMERA3 REVERSE ⇒ Cf. P. 26 ※ This item is grey and can't be set at CM-7220.

CAMERA4 REVERSE ⇒ Cf. P. 26 ※ This item is grey and can't be set at CM-7220.

When you select "BACK", the monitor returns to "MENU TOP".

### 1-3-1 CAMERA1 SETTING

Please select camera function from [BLC] or [AUDIO] by DIM switch and NOR/BLC switch at "CAMERA1 SETTING".

(1) BLC : BLC function is active. (Audio output function is inactive.)

(2) AUDIO : Audio output function is active. (BLC function is inactive.)

According to the model, you can set "CAMERA2 SETTING" in the same way.

### 1-3-2 AUDIO SETTING

Please select Audio output camera from [DISPLAY], [CAMERA1] or [CAMERA2] by DIM switch and NOR/BLC switch at "AUDIO SETTING".

(1) DISPLAY : The monitor outputs audio of displayed camera.

(2) CAMERA1 : The monitor outputs audio of Camera1.

(3) CAMERA2 : The monitor outputs audio of Camera2.

Notes) In case Audio output camera is the audio camera selected "AUDIO" at "CAMERA1 (2) SETTING", audio output from the monitor is active.

### 1-3-3 CAMERA1 REVERSE

When you select "CAMERA1 REVERSE" at "INPUT", the following screen appears.

```

CAMERA1 REVERSE
[OFF] ON

```

Please select image direction of right and left of Camera1 by DIM switch and NOR/BLC switch. The value inside [ ] is a current setting.

(1) ON : Image direction of right and left is reverse.

(2) OFF : Image direction of right and left isn't reverse.

When you push CAM-SELECT switch, the monitor memorizes the set value and returns to "INPUT".

Notes) In case you use to confirm a rear view, please select image direction as same as back mirror.

According to the model, you can set "CAMERA2 REVERSE" to "CAMERA4 REVERSE" in the same way.

### 1-4 RESET

When you select "RESET" at "MENU TOP", the following screen appears.

```

RESET
YES [NO]

```

Please select [YES] or [NO] of reset control by DIM switch and NOR/BLC switch. The value inside [ ] is a current setting.

(1) YES : The monitor is initialized to default values, except language setting, and returns to "MENU TOP".

(2) NO : The monitor isn't initialized to default values and returns to "MENU TOP".



## 2 TRIGGER SETTING

[CM-7220, CM-7230]

► BACK [HIGH]  
TRIGGER1 [LOW]  
TRIGGER2 [LOW]  
TRIGGER3 [LOW]  
TRIGGER4 [LOW]

[CM-6010, CM-6020]

► BACK [HIGH]  
TRIGGER1 [LOW]  
TRIGGER2 [LOW]

Please select a menu item by ▼ / ▲ switch.

Each value inside [ ] is a current setting.

TRIGGER2 ※ This item is grey and can't be set at CM-7220 and CM-6010.

TRIGGER3 ※ This item is grey and can't be set at CM-7220.

TRIGGER4 ※ This item is grey and can't be set at CM-7220.

When you select "BACK", the trigger setting menu ends.

### 2-1 TRIGGER1

Please select detection polarity from [HIGH] or [LOW] by DIM switch and NOR/BLC switch at "TRIGGER1".

(1) HIGH : In case you connect BACK (Reverse gear trigger) to DC12V/24V.

(2) LOW : In case you connect BACK (Reverse gear trigger) to GND.

According to the model, you can set "TRIGGER2" to "TRIGGER4" in the same way.

## TROUBLE SHOOTING

Before you order service, please check the following "Check items".

In case there is an abnormality, after you take off the original cable, please order service.

Abnormality	Check items	Check
Power indicator (LED) doesn't light up.	Isn't the original cable cut or come off? Isn't the fuse of the original cable cut?	
Display lights up, but no image appears.	Doesn't shut the camera front out with paper etc? In case you use the shutter camera (G-4060A), doesn't the shutter close?	
Image doesn't vivid.	Isn't the front glass of the camera stained? When you input a reverse gear, does back light turn on both right and left?	
Shutter doesn't work.	Don't you connect directly the trigger to DC12V/24V ACC power supply or vehicle ground? In case you use CM-7230, don't you connect the shutter camera (G-4060A) to Camera3 or Camera4? Camera3 and Camera4 doesn't support shutter control.	
Switches don't work. Displayed image can't be changed.	Doesn't the monitor detect the trigger? Doesn't CAM2 (CAM2 trigger) to CAM4 (CAM4 trigger) contact with vehicle ground? Don't you connect directly the trigger to DC12V/24V ACC power supply or vehicle ground? Please confirm junction and voltage level of the trigger and "TRIGGER SETTING (Cf. P. 27)".	

The backlight of the LCD has life expectancy (about 20,000 hours). When the display becomes dark or flickering or doesn't light up, you need to change LCD. Please ask dealer in detail.

The LCD is made by high technology but there are defect pixels, always on or always off, with less than 0.01%. Please understand it beforehand.

## SPECIFICATIONS (CM-7220)

(1) Display element	7-inch TFT LCD (aspect ratio 16:9)
(2) Pixel format	800 (H) × 480 (V)
(3) Brightness	600cd/m <sup>2</sup> (Typ)
(4) Viewing angle	right and left 65°, up 50°, down 65° (Typ)
(5) Life expectancy of backlight	About 20,000 hours
(6) Input signal	NTSC/ PAL automatic switching
(7) Camera input	Maximum 1 camera
(8) External video input	No
(9) Front switches	<ul style="list-style-type: none"> <li>① Display mode selection (SB/ON)</li> <li>② Camera selection, Menu execution (CAM-SELECT)</li> <li>③ Volume adjustment, Menu selection (▼/▲)</li> <li>④ Monitor brightness change, Menu setting (DIM)</li> <li>⑤ Camera exposure compensation, Menu setting (NOR/BLG)</li> </ul>
(10) Menu items	<ul style="list-style-type: none"> <li>① LANGUAGE SETTING (JAPANESE/ ENGLISH)</li> <li>② BRIGHTNESS (DIM = OFF) (0 to 10)</li> <li>③ BRIGHTNESS (DIM = ON) (0 to 10)</li> <li>④ CONTRAST (-5 to +5)</li> <li>⑤ COLOUR (-5 to +5)</li> <li>⑥ TINT (-5 to +5)</li> <li>⑦ SHARPNESS (-5 to +5)</li> <li>⑧ CAMERA ASPECT (FULL/ NORMAL/ WIDE)</li> <li>⑨ DISTANCE MARK (3M-A/ 2M-A/ 3M-B/ 2M-B/ OFF)</li> <li>⑩ BLC TIMER (5sec/ 10sec/ 30sec)</li> <li>⑪ CAMERA SETTING (BLG/ AUDIO)</li> <li>⑫ AUDIO SETTING (DISPLAY)</li> <li>⑬ CAMERA REVERSE (OFF/ ON)</li> <li>⑭ RESET (YES/ NO)</li> <li>⑮ TRIGGER (HIGH/ LOW)</li> </ul>
(11) Supported cameras	Mitsubishi car vision camera (C-4010A, C-4060A, C-4013, C-5000, C-4110)
(12) Audio output function (speaker)	Yes (Camera1)
(13) Maximum cable distance	35m (Connected with W-1220)
(14) Power supply	Both DC12V/24V (DC+11V to +32V)
(15) Power consumption	Less than 7.0W
(16) External dimensions	190.0 (W) × 124.0 (H) × 33.6 (D) mm (Not include switches and protuberances)
(17) Weight	Less than 390g (Only monitor)
(18) Case material	Plastic
(19) Operation environment	<ul style="list-style-type: none"> <li>① Temperature 0°C to +50°C</li> <li>② Humidity 20%RH to 80%RH (No condensation)</li> </ul>
(20) Vibration rating	JIS D 1601 (45m/s <sup>2</sup> , 5Hz to 100Hz)
(21) Paint colour	Dark metallic grey
(22) Accessories	<ul style="list-style-type: none"> <li>① Original cable 1</li> <li>② Instruction manual 1</li> <li>① Hanger-type bracket K-7210A</li> <li>② Mounting bracket K-7200</li> </ul>
(23) Attachment bracket	

## SPECIFICATIONS (CM-7230)

(1) Display element	7-inch TFT LCD (aspect ratio 16:9)
(2) Pixel format	800 (H) × 480 (V)
(3) Brightness	600cd/m <sup>2</sup> (Typ)
(4) Viewing angle	right and left 65°, up 50°, down 65° (Typ)
(5) Life expectancy of backlight	About 20,000 hours
(6) Input signal	NTSC/ PAL automatic switching
(7) Camera input	Maximum 4 cameras
(8) External video input	No
(9) Front switches	<ul style="list-style-type: none"> <li>① Display mode selection (SB/ON)</li> <li>② Camera selection, Menu execution (CAM-SELECT)</li> <li>③ Volume adjustment, Menu selection (▼/▲)</li> <li>④ Monitor brightness change, Menu setting (DIM)</li> <li>⑤ Camera exposure compensation, Menu setting (NOR/BLG)</li> </ul>
(10) Menu items	<ul style="list-style-type: none"> <li>① LANGUAGE SETTING (JAPANESE/ ENGLISH)</li> <li>② BRIGHTNESS (DIM = OFF) (0 to 10)</li> <li>③ BRIGHTNESS (DIM = ON) (0 to 10)</li> <li>④ CONTRAST (-5 to +5)</li> <li>⑤ COLOUR (-5 to +5)</li> <li>⑥ TINT (-5 to +5)</li> <li>⑦ SHARPNESS (-5 to +5)</li> <li>⑧ CAMERA ASPECT (FULL/ NORMAL/ WIDE)</li> <li>⑨ DISTANCE MARK (3M-A/ 2M-A/ 3M-B/ 2M-B/ OFF)</li> <li>⑩ BLC TIMER (5sec/ 10sec/ 30sec)</li> <li>⑪ CAMERA SETTING (BLG/ AUDIO)</li> <li>⑫ AUDIO SETTING (DISPLAY/ CAMERA1/ CAMERA2)</li> <li>⑬ CAMERA REVERSE (OFF/ ON)</li> <li>⑭ RESET (YES/ NO)</li> <li>⑮ TRIGGER (HIGH/ LOW)</li> </ul>
(11) Supported cameras	Mitsubishi car vision camera (C-4010A, C-4060A, C-4013, C-5000, C-4110)
(12) Audio output function (speaker)	Yes (Camera1/ Camera2)
(13) Maximum cable distance	35m (Connected with W-1220)
(14) Power supply	Both DC12V/24V (DC+11V to +32V)
(15) Power consumption	Less than 9.5W
(16) External dimensions	190.0 (W) × 124.0 (H) × 33.6 (D) mm (Not include switches and protuberances)
(17) Weight	Less than 390g (Only monitor)
(18) Case material	Plastic
(19) Operation environment	<ul style="list-style-type: none"> <li>① Temperature 0°C to +50°C</li> <li>② Humidity 20%RH to 80%RH (No condensation)</li> </ul>
(20) Vibration rating	JIS D 1601 (45m/s <sup>2</sup> , 5Hz to 100Hz)
(21) Paint colour	Dark metallic grey
(22) Accessories	<ul style="list-style-type: none"> <li>① Original cable 1</li> <li>② Instruction manual 1</li> <li>① Hanger-type bracket K-7210A</li> <li>② Mounting bracket K-7200</li> </ul>
(23) Attachment bracket	

## SPECIFICATIONS (CM-6010)

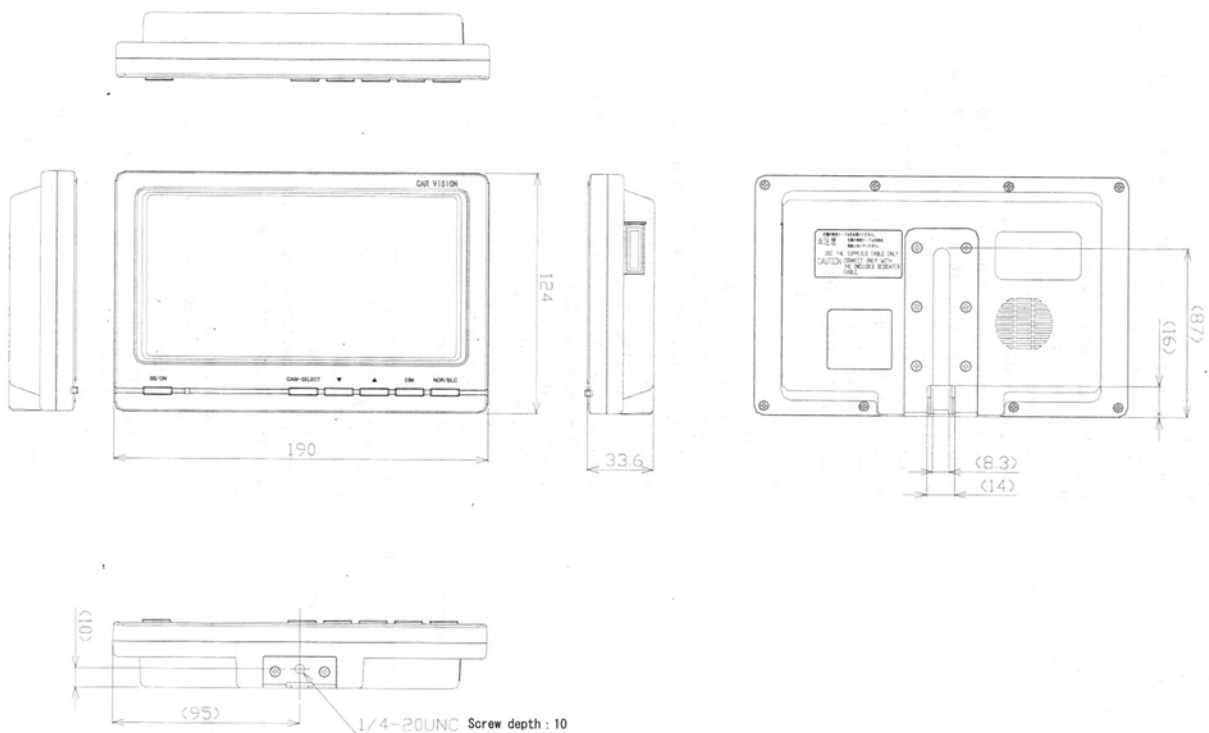
(1) Display element	6.1-inch TFT LCD (aspect ratio 16:9)
(2) Pixel format	800 (H) × 480 (V)
(3) Brightness	600cd/m <sup>2</sup> (Typ)
(4) Viewing angle	right and left 65°, up 50°, down 65° (Typ)
(5) Life expectancy	About 20,000 hours
(6) Input signal	NTSC/ PAL automatic switching
(7) Camera input	Maximum 1 camera
(8) External video input	No
(9) Front switches	<ul style="list-style-type: none"> <li>① Display mode selection (SB/ON)</li> <li>② Camera selection, Menu execution (CAM-SELECT)</li> <li>③ Volume adjustment, Menu selection (▼/▲)</li> <li>④ Monitor brightness change, Menu setting (DIM)</li> <li>⑤ Camera exposure compensation, Menu setting (NOR/BLC)</li> </ul>
(10) Menu items	<ul style="list-style-type: none"> <li>① LANGUAGE SETTING (JAPANESE/ ENGLISH)</li> <li>② BRIGHTNESS (DIM = OFF) (0 to 10)</li> <li>③ BRIGHTNESS (DIM = ON) (0 to 10)</li> <li>④ CONTRAST (-5 to +5)</li> <li>⑤ COLOUR (-5 to +5)</li> <li>⑥ TINT (-5 to +5)</li> <li>⑦ SHARPNESS (-5 to +5)</li> <li>⑧ CAMERA ASPECT (FULL/ NORMAL/ WIDE)</li> <li>⑨ DISTANCE MARK (3M-A/ 2M-A/ 3M-B/ 2M-B/ OFF)</li> <li>⑩ BLC TIMER (5sec/ 10sec/ 30sec)</li> <li>⑪ CAMERA SETTING (BLC)</li> <li>⑫ AUDIO SETTING (DISPLAY)</li> <li>⑬ CAMERA REVERSE (OFF/ ON)</li> <li>⑭ RESET (YES/ NO)</li> <li>⑮ TRIGGER (HIGH/ LOW)</li> </ul>
(11) Supported cameras	Mitsubishi car vision camera (C-4010A, C-4060A, C-4013, C-5000, C-4110)
(12) Audio output function	No
(13) Maximum cable distance (speaker)	35m (Connected with W-1220)
(14) Power supply	Both DC12V/24V (DC+11V to +32V)
(15) Power consumption	Less than 6.5W
(16) External dimensions	168.0 (W) × 114.0 (H) × 33.6 (D) mm (Not include switches and protuberances)
(17) Weight	Less than 340g (Only monitor)
(18) Case material	Plastic
(19) Operation environment	<ul style="list-style-type: none"> <li>① Temperature 0°C to +50°C</li> <li>② Humidity 20%RH to 80%RH (No condensation)</li> </ul>
(20) Vibration rating	JIS D 1601 (45m/s <sup>2</sup> , 5Hz to 100Hz)
(21) Paint colour	Dark metallic grey
(22) Accessories	<ul style="list-style-type: none"> <li>① Original cable 1</li> <li>② Instruction manual 1</li> <li>① Hanger-type bracket K-7210A</li> <li>② Mounting bracket K-7200</li> </ul>
(23) Attachment bracket	

## SPECIFICATIONS (CM-6020)

(1) Display element	6.1-inch TFT LCD (aspect ratio 16:9)
(2) Pixel format	800 (H) × 480 (V)
(3) Brightness	600cd/m <sup>2</sup> (Typ)
(4) Viewing angle	right and left 65°, up 50°, down 65° (Typ)
(5) Life expectancy	About 20,000 hours
(6) Input signal	NTSC/ PAL automatic switching
(7) Camera input	Maximum 2 cameras
(8) External video input	1 video input (RCA jack)
(9) Front switches	<ul style="list-style-type: none"> <li>① Display mode selection (SB/ON)</li> <li>② Camera selection, Menu execution (CAM-SELECT)</li> <li>③ Volume adjustment, Menu selection (▼/▲)</li> <li>④ Monitor brightness change, Menu setting (DIM)</li> <li>⑤ Camera exposure compensation, Menu setting (NOR/BLC)</li> </ul>
(10) Menu items	<ul style="list-style-type: none"> <li>① LANGUAGE SETTING (JAPANESE/ ENGLISH)</li> <li>② BRIGHTNESS (DIM = OFF) (0 to 10)</li> <li>③ BRIGHTNESS (DIM = ON) (0 to 10)</li> <li>④ CONTRAST (-5 to +5)</li> <li>⑤ COLOUR (-5 to +5)</li> <li>⑥ TINT (-5 to +5)</li> <li>⑦ SHARPNESS (-5 to +5)</li> <li>⑧ ASPECT (FULL/ NORMAL/ WIDE)</li> <li>⑨ DISTANCE MARK (3M-A/ 2M-A/ 3M-B/ 2M-B/ OFF)</li> <li>⑩ BLC TIMER (5sec/ 10sec/ 30sec)</li> <li>⑪ CAMERA SETTING (BLC/ AUDIO)</li> <li>⑫ AUDIO SETTING (DISPLAY/ CAMERA1/ CAMERA2)</li> <li>⑬ CAMERA REVERSE (OFF/ ON)</li> <li>⑭ RESET (YES/ NO)</li> <li>⑮ TRIGGER (HIGH/ LOW)</li> </ul>
(11) Supported cameras	Mitsubishi car vision camera (C-4010A, C-4060A, C-4013, C-5000, C-4110) Yes (Camera1/ Camera2)
(12) Audio output function	(speaker)
(13) Maximum cable distance	35m (Connected with W-1220)
(14) Power supply	Both DC12V/24V (DC+11V to +32V)
(15) Power consumption	Less than 7.5W
(16) External dimensions	168.0 (W) × 114.0 (H) × 33.6 (D) mm (Not include switches and protuberances)
(17) Weight	Less than 350g (Only monitor)
(18) Case material	Plastic
(19) Operation environment	<ul style="list-style-type: none"> <li>① Temperature 0°C to +50°C</li> <li>② Humidity 20%RH to 80%RH (No condensation)</li> </ul>
(20) Vibration rating	JIS D 1601 (45m/s <sup>2</sup> , 5Hz to 100Hz)
(21) Paint colour	Dark metallic grey
(22) Accessories	<ul style="list-style-type: none"> <li>① Original cable 1</li> <li>② Instruction manual 1</li> <li>① Hanger-type bracket K-7210A</li> <li>② Mounting bracket K-7200</li> </ul>
(23) Attachment bracket	

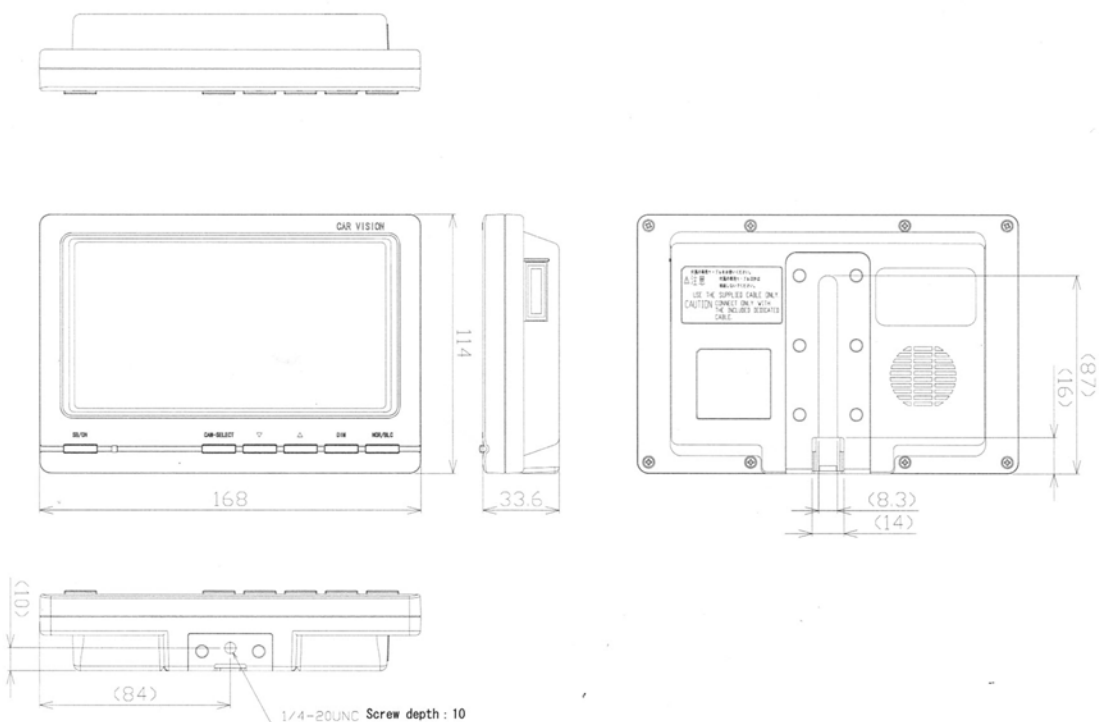


# EXTERNAL VIEW (CM-7220, CM-7230)



Unit : mm

# EXTERNAL VIEW (CM-6010, CM-6020)



Unit : mm