

**OWNER'S MANUAL**

PLEASE READ CAREFULLY BEFORE  
USING THIS PRODUCT.

**MXN<sup>®</sup>**

# 7" DIGITAL TFT LCD ALL ROUND VISION MONITOR



**Model: MXN-P7D**

Design and specifications are subject to change without notice.

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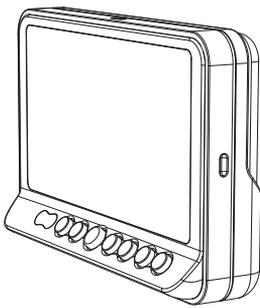
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# PACKAGE CONTENTS



MONITOR



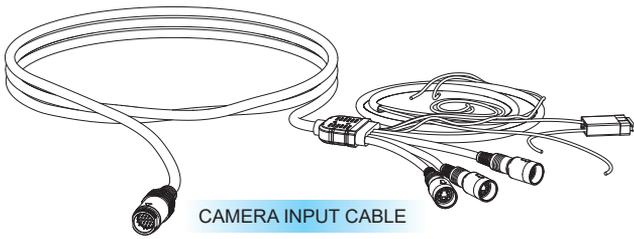
SUNVISOR



MANUAL



STAND BRACKET



CAMERA INPUT CABLE



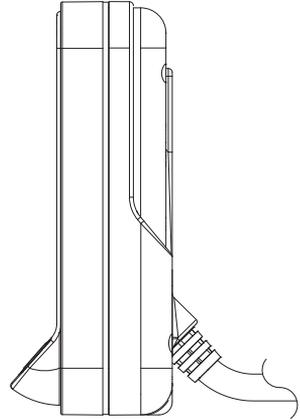
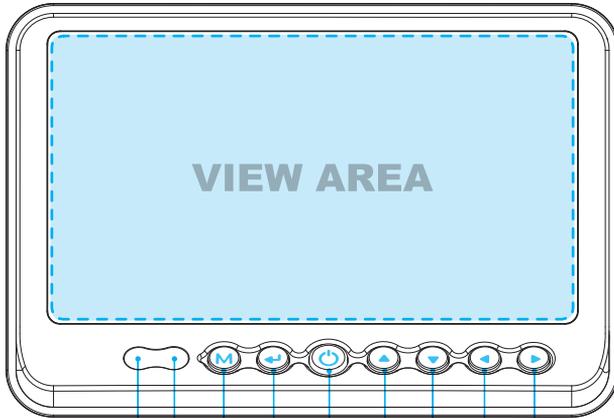
CABLE CLIP



BRACKET SCREWS

ITEM	Q'TY
MONITOR	1
SUNVISOR	1
STAND BRACKET	1
BRACKET SCREW	3
CABLE CLIP	2
CAMERA INPUT CABLE	1
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## ■ OPERATION



**RIGHT** Press [RIGHT] button to adjust monitor volume.  
Use [RIGHT] button to change OSD setting during system setting.

**LEFT** Press [LEFT] button to adjust monitor volume.  
Use [LEFT] button to change OSD setting during system setting.

**DOWN** Press [DOWN] button to navigate the menu for system setting.

**UP** Press [UP] button to navigate the menu for system setting.

**POWER** Press [POWER] button to turn on/off the monitor.

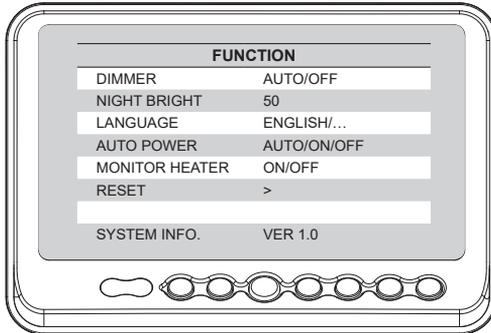
**SELECT** Press [SELECT] button to select the respective camera channel.  
(CAM1-CAM2-CAM3-CAM1..)

**MENU** Press [MENU] button for system setting.

**HEATER LAMP** Orange color will be illuminated in case heater function is activated.

**DAY/NIGHT SENSOR (CDS)** Automatic brightness control sensor.

## SYSTEM SETTING



### FUNCTION

#### DIMMER (Automatic Brightness Control)

Select **AUTO** or **OFF** to have Automatic or Manual brightness of the monitor.



**REMARK:** By activating **DIMMER AUTO** function, the monitor adjusts the brightness according to the environment.

#### NIGHT BRIGHT

Select the **DIMMER** to 『**AUTO**』, set the value of backlight on **NIGHT** mode.

#### LANGUAGE

Provide 6 Multi-lingual OSD [ENGLISH, SWEDISH, DANISH, NORWEGIAN, DUTCH, FINNISH]. Select the preferred **LANGUAGE**.

#### AUTO POWER

Select monitor activation function as below.

- [**AUTO**] Monitor keeps the last setting in memory.
- [**ON**] Monitor starts up 『**Power-ON**』 mode automatically.
- [**OFF**] Monitor starts up 『**Stand-By**』 mode automatically.

#### MONITOR HEATER

Select **MONITOR HEATER** 『**ON**』 to have automatic heating function in order to enable fast picture start during extreme cold weather condition.



**Remark:** During **MONITOR HEATER ON** mode, Heating activates automatically when the temperature of inside monitor is below 0 degree Celcius. When the temperature of inside monitor is over 0 degree Celcius, heating stops automatically.

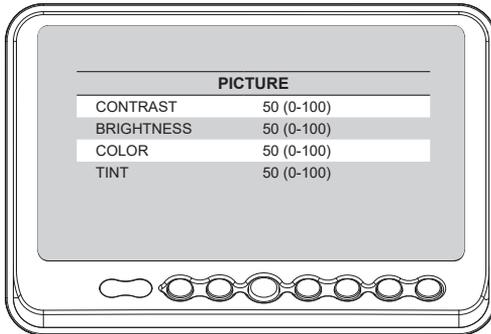
#### RESET

Press > button to go the factory default setting.

#### SYSTEM INFO.

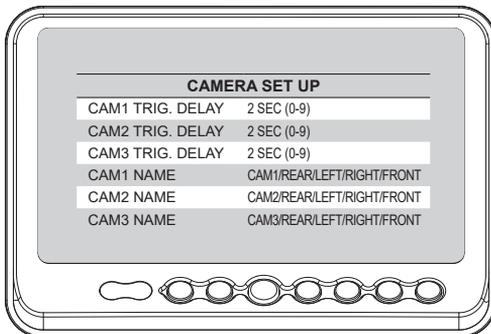
Refers to system information of the monitor.

## ■ SYSTEM SETTING



### PICTURE

Press [LEFT/RIGHT] button to adjust preferred **PICTURE** of the monitor.



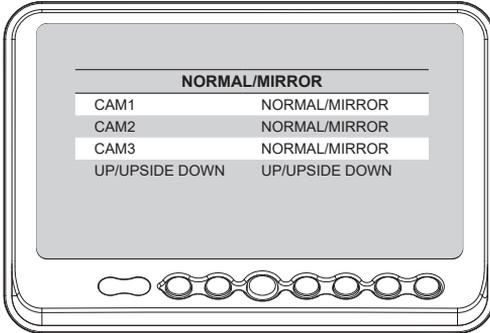
### CAMERA SET UP

#### TRIG. DELAY

When a **TRIGGER** wire is connected to a pulse DC power signal (e.g. direction indicator lights) then the [**TRIGGER DELAY**] function avoids repeating **ON/OFF** of the monitor.

#### CAMERA NAME

**CAMERA NAME** can be selected as **CAM1, 2, 3/REAR/LEFT/RIGHT/FRONT**.



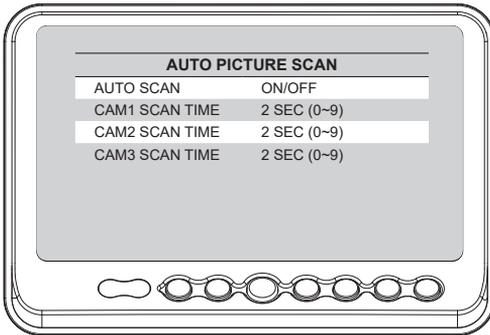
## NORMAL/MIRROR

### NORMAL/MIRROR

Each camera picture (CAM1/CAM2/CAM3) can be switchable as **NORMAL/MIRROR** image.

### UP/DOWN

Camera pictures can be switchable as **UP/DOWN** image.



## AUTO PICTURE SCAN

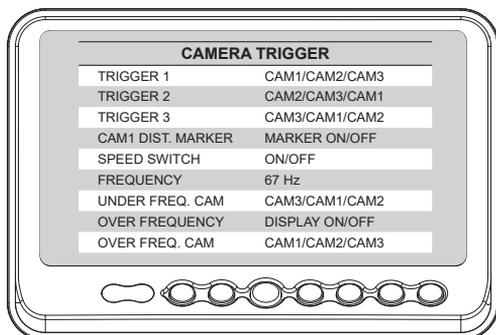
Each scanning time of CAM1/CAM2/CAM3 can be selected.



**REMARK:** If the **SCAN TIME** is set as '0', monitor skips its channel during the scanning.

Press [**UP**] button for 4 seconds to **ACTIVATE/INACTIVATE** auto scanning function.

## SYSTEM SETTING



### CAMERA TRIGGER

#### TRIGGER 1/2/3 (Trigger source selection)

Select the required trigger source at CAM1/CAM2/CAM3.

#### REMARK

TRIGGER PRIORITY: TRIGGER 1 > TRIGGER 2 > TRIGGER 3

#### CAM1 DIST. MARKER

Select **ON** to have distance marker (parking line) for **CAM1**.

Distance marker is displayed as soon as **TRIGGER 1** signal is activated.

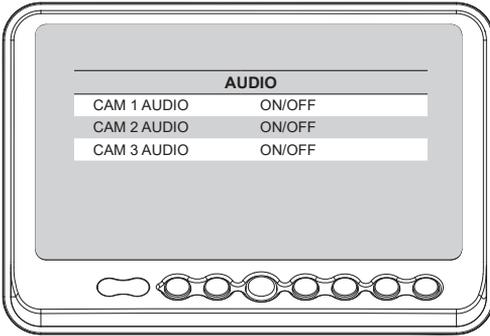
#### SPEED SWITCH

The orange wire needs to be connected with the vehicle's tacho signal and via **MENU** the **SPEED SWITCH** needs to be selected **ON**.

At **FREQUENCY** 67Hz setting (and most common used tacho signal) the selected camera will be displayed during a speed of 0~33km/h. Select the concerning camera via 『**UNDER FREQUENCY CH:**』 (At different type tacho signals the **FREQUENCY** needs to be adjusted into higher or lower value than this example)

Over 33km/h (72Hz) the selected camera will be switched **OFF** automatically. When the speed slows down, then the selected camera will be switched **ON** automatically again at 30km/h. Instead of automatic switch **OFF** at a speed over 33km/h it is also possible to activate another video source, such as a navigation picture from an optional navigation computer. In this case user needs to select 『**OVER FREQUENCY DISPLAY: ON**』 and user needs to select 『**OVER FREQUENCY CH:**』

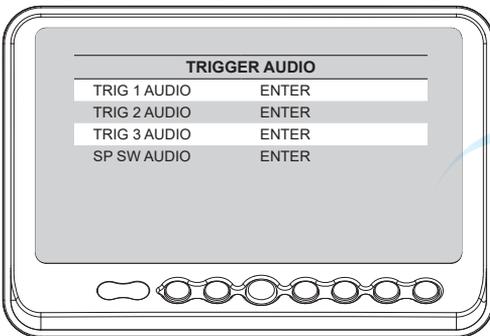
In case of **TRIGGER** activation during 『**SPEED SWITCH ON**』 mode, then **TRIGGERS** 1~ 3 will overrule 『**SPEED SWITCH**』 function.



## AUDIO

Audio **MUTE** Mode in normal mode.

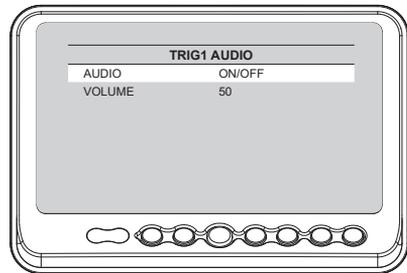
When the mode is **[ON]**, audio will be on (activated)  
 When the mode is **[OFF]**, audio will be off (mute).



## TRIGGER AUDIO

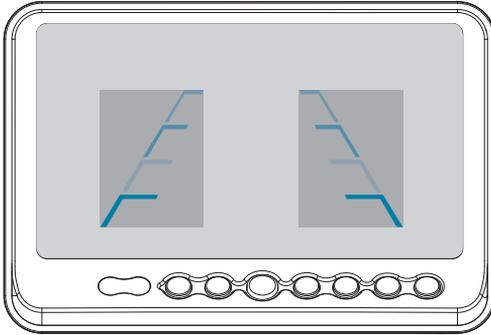
Audio **MUTE** Mode in Trigger mode.

Choose the trigger and then push **[ENTER]**.  
 The Audio setting menu will be shown as below.



When the mode is **[ON]**, audio will be on (activated).  
 When the mode is **[OFF]**, audio will be off (mute).  
 The user may adjust the volume.

## ■ SYSTEM SETTING



### **DISTANCE MARKER ADJUST**

User can adjust location of distance marker.

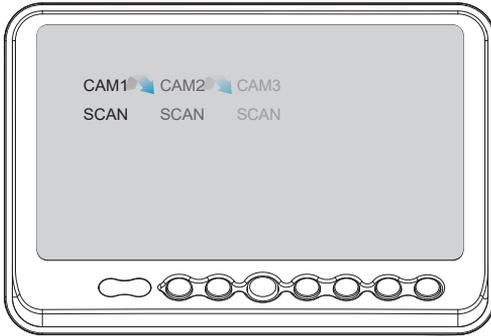
At Power **ON** mode, select distance marker by pressing [**UP/DOWN**] buttons.

When color of distance markers is seen as **RED** color, user can adjust the lines **UP/DOWN** or **LEFT/RIGHT**.

When both color of distance markers are seen as **RED** color, both lines can be adjusted **LEFT/RIGHT**.

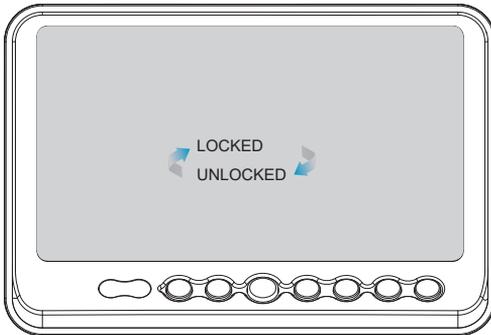
When left color of distance marker is seen as **RED** color, left line of distance marker can be adjusted **LEFT/RIGHT**.

When right color of distance marker is seen as **RED** color, right line of distance marker can be adjusted **LEFT/RIGHT**.



### SCAN ON/OFF FUNCTION

At **Power-ON** mode, hold **[UP]** buttons pressed for 4 seconds to activate Auto Scan Picture function. During the auto scanning mode, press **[UP]** button for 4 seconds to inactivate Auto Scan Picture function.



### LOCK ON/OFF FUNCTION

#### LOCK ON/OFF FUNCTION

The set up menu can be locked as prevention against unauthorized users.

#### LOCK ON mode

At **Power-ON** mode, hold **[DOWN]** button pressed for 10 seconds to set up **LOCK ON** function.

When **[LOCKED]** is displayed on the screen, user can use **[POWER, SELECT, VOLUME]** buttons only and use can do setting for **PICTURE** menu.

#### LOCK OFF mode

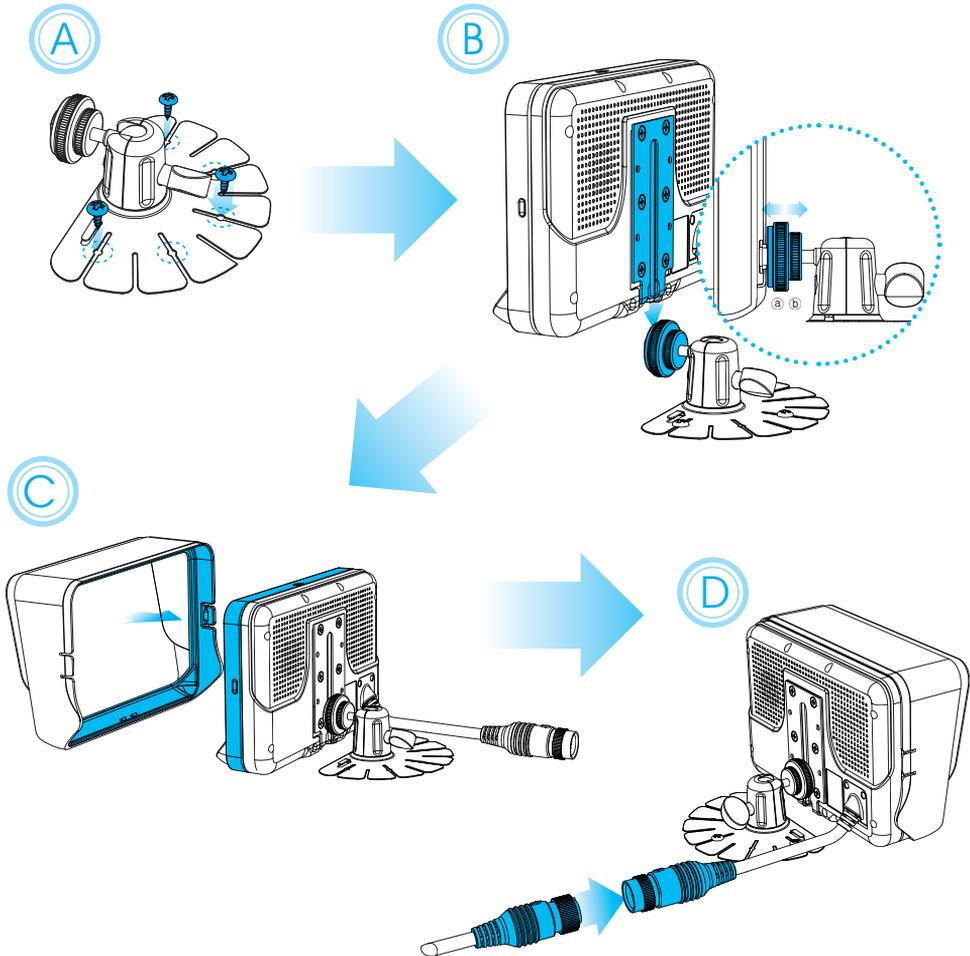
At **Power-ON** mode, hold **[DOWN]** button pressed for 10 seconds to set up **LOCK OFF** function.

When **[UNLOCKED]** is displayed on the screen, user can use all functions of the set up menu.

## ■ INSTALLATION

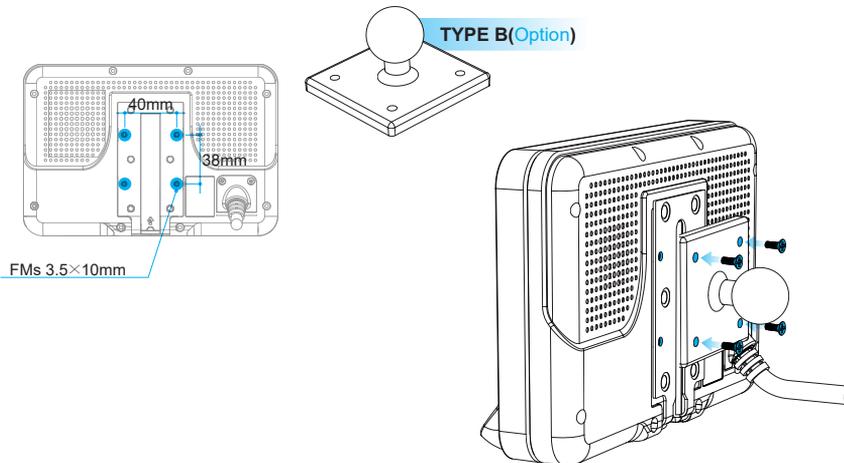
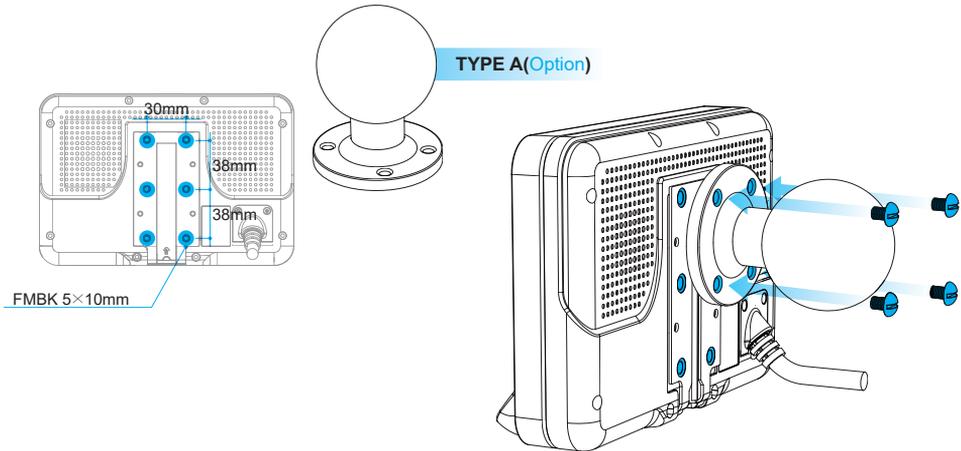
### MONITOR INSTALLATION WITH STAND BRACKET & SUNVISOR

- A Remove a protection tape and attach **STAND BRACKET** into stand place, then fix it with the supplied screws.
- B Connect **STAND BRACKET** with monitor and adjust height/angle.
- C Connect **SUNVISOR** to the **MONITOR**.
- D Connect **CAMERA INPUT CABLE** to the **MONITOR**.

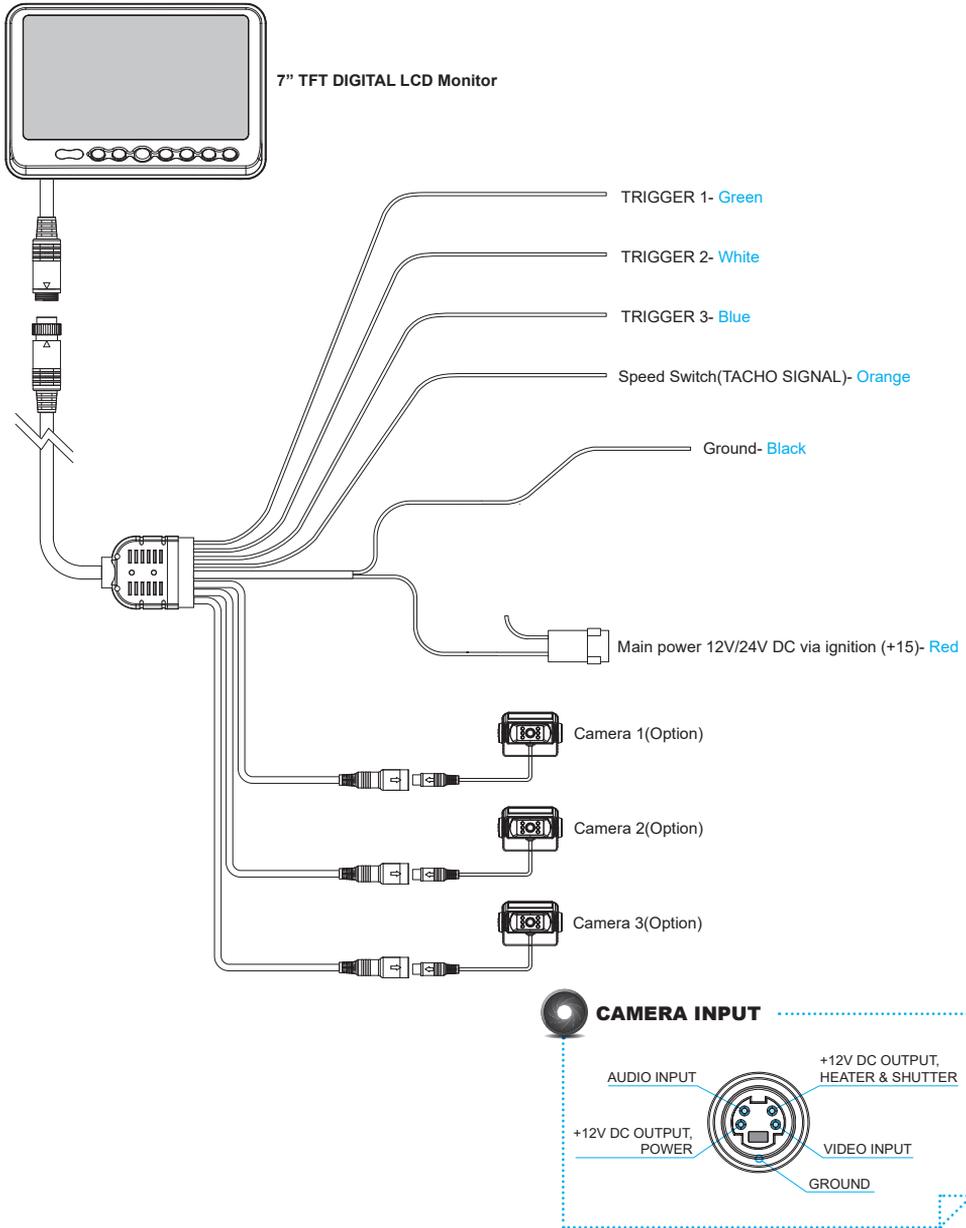


## INSTALLATION OF HEAVY DUTY MOUNTING BRACKETS

**MONITOR** can be connected with different type of **HEAVY DUTY MOUNTING BRACKETS**. Please check the compatibility in advance, then please follow installation as described below.



# CONNECTION



## ■ SPECIFICATION



ITEM	SPECIFICATION
LCD SCREEN SIZE	7" Wide Diagonal
DIMENSIONS	193(W) × 132(H) × 50.5(D)mm
DISPLAY DIMENSIONS	154.08 × 85.92mm
POWER INPUT	DC 12 to 30 Free Input
POWER CONSUMPTION	12 Watt Max.
VIDEO SYSTEM	NTSC / PAL / SECAM Auto Detection
SYNC. SYSTEM	Internal
BRIGHTNESS	400 cd/m <sup>2</sup>
DISPLAY RESOLUTION	800 × 480 pixel
VIEWING ANGLE	Top: 50.    Bottom: 70.    Left: 70.    Right: 70.
COLOR CONFIGURATION	RGB Stripe
DIMMER	Automatic / Manual
SPEAKER IMPEDANCE	8Ω. 0.3 Watt Max.
OPERATING TEMP.	-25°C to + 75°C
STORAGE TEMP.	-30°C to + 85°C
IMPACT RATING	4G
CAMERA CONNECTOR	4-Pin mini DIN (MXN configuration)
HOUSING	Light Black(ABS)
ON-SCREEN DISPLAY CONTROL FUNCTIONS	Volume · Brightness · Color · Contrast · Tint · CAM Screen 1/2/3 · CAM Trigger 1/2/3 · Heater · Speedswitch · Auto Power · Distance marker · Auto Picture Scan · Dimmer · Language · Direction · Reset.
SUPPLIED ACCESSORY	Die-Case Mounting Bracket 1 pcs / Screw Kit 1 set / Operating Manual / Sun Shield 1 pcs / Power Cable 1 set
WEIGHT	±620g

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