OWNER'S MANUAL

PLEASE READ CAREFULLY BEFORE USING THIS PRODUCT.

MXN®

7" DIGITAL SPLITSCREEN TFT LCD ALL ROUND VISION MONITOR

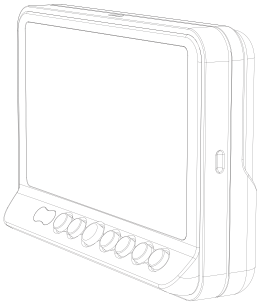
Model: MXN-P7DQ

Design and specifications are subject to change without notice.

• I • N • D • E • X •

Package Contents 03
Operation 04
System Setting 05
Function 05
Picture 06
AUX Picture 06
Normal/Mirror 06
Camera Trigger 07
Distance Marker 07
Auto Picture Scan 08
Camera Name 08
Speed Switch 09
Menu 10
Split 10
Triple 10
Quad 11
Distance Marker Adjust 12
Lock On/Off Function 13
Scan On/Off Function 13
Installation 14
Connection 16
Specification 17

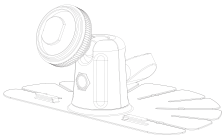
PACKAGE CONTENTS



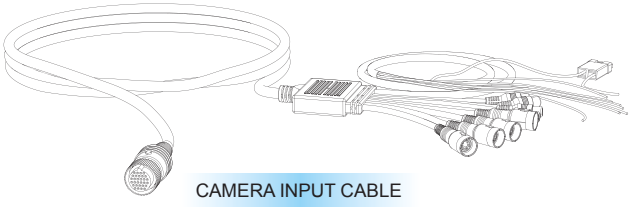
MONITOR

SUNVISOR

MANUAL



STAND BRACKET



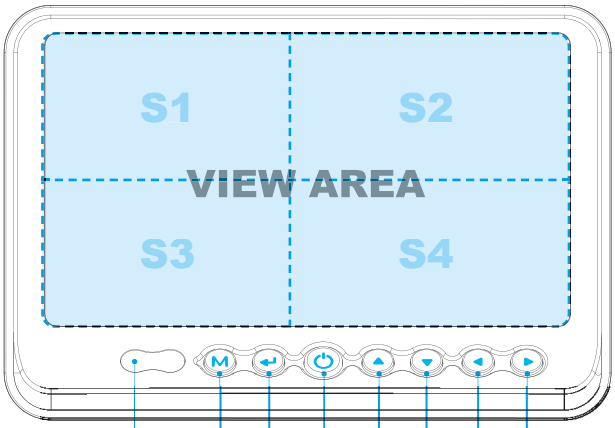
CAMERA INPUT CABLE

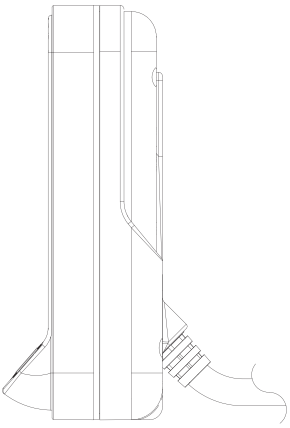
CABLE CLIP

BRACKET SCREWS

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

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.

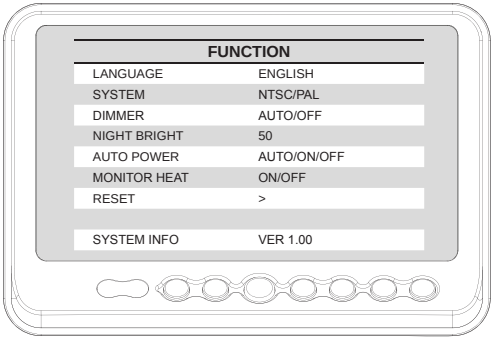
POWER Press [**POWER**] button to turn on/off the monitor.

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

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

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

SYSTEM SETTING



FUNCTION

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

SYSTEM
Select **NTSC/PAL**

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.

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.

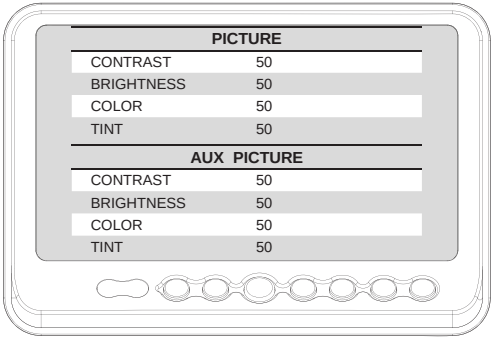
MONITOR HEATER
Select **MONITOR HEATER** 『**ON**』 to have automatic heating function in order to enable fast picture start during extreme cold weather condition.

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

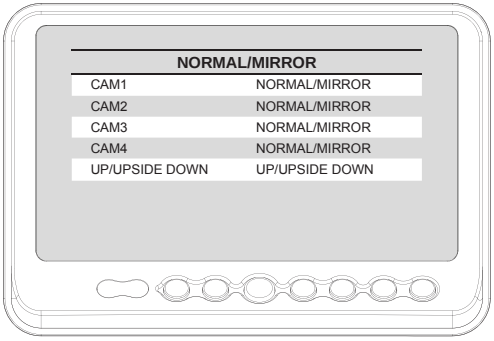


PICTURE

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

PICTURE MENU adjust **PICTURE** of CAM1, CAM2, CAM3, CAM4, SPLIT, TRIPLE, QUAD MODE

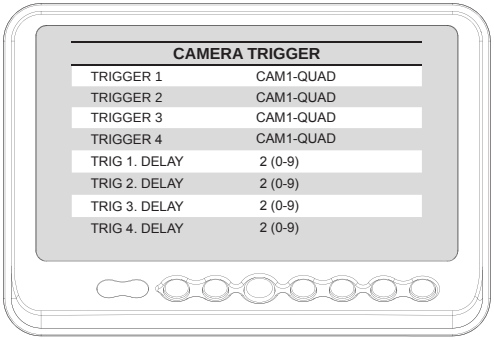
AUX PICTURE MENU adjust **PICTURE** of **AUX MODE**
User can adjust picture setting value for 『**CAMERA CHANNELS**』 and 『**AUX CHANNEL**』 seperately.



NORMAL/MIRROR

NORMAL/MIRROR
Each camera picture (CAM1/CAM2/CAM3/CAM4) can be switchable as **NORMAL**/**MIRROR** image.

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

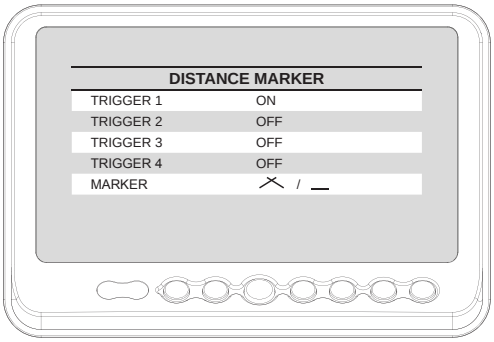


CAMERA TRIGGER

TRIGGER 1/2/3/4 (Trigger source selection)
Select the required trigger source at CAM1/CAM2/CAM3/CAM4/AUX/SPLIT/TRIPLE/QUAD

REMARK
TRIGGER PRIORITY: TRIGGER 1 > TRIGGER 2 > TRIGGER 3 > TRIGGER 4

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.



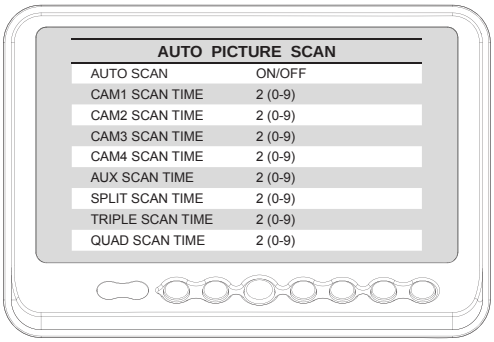
DISTANCE MARKER

Select **ON** to have **DISTANCE MARKER** for CAM1, CAM2, CAM3, CAM4.
DISTANCE MARKER is displayed as the trigger signal is activated.

MARKER

Select of **DISTANCE MARKER**. ^ or _

SYSTEM SETTING

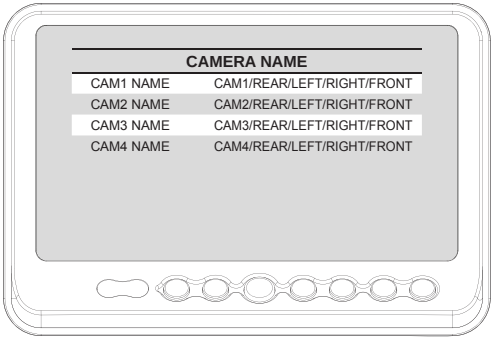


AUTO PICTURE SCAN

Each scanning time of CAM1/CAM2/CAM3 /CAM4/AUX/SPLIT/TRIPLE/QUAD can be selected.

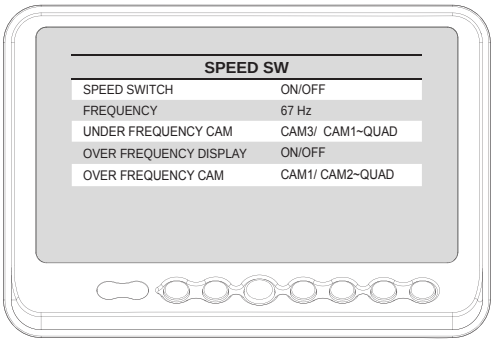
REMARK

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.



CAMERA NAME

CAMERA NAME can be selected as CAM1, 2, 3, 4/REAR/LEFT/RIGHT/FRONT.



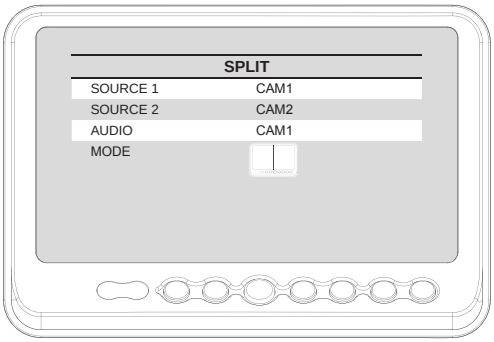
SPEED SWITCH

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~ 4** will overrule 『**SPEED SWITCH**』 function.

MENU



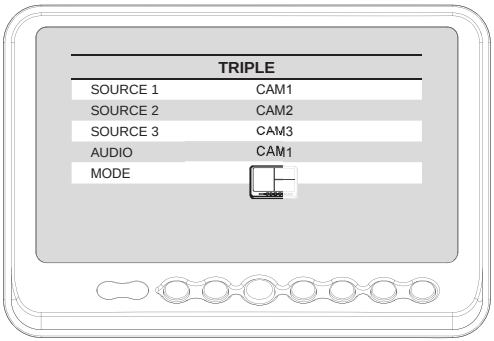
SPLIT

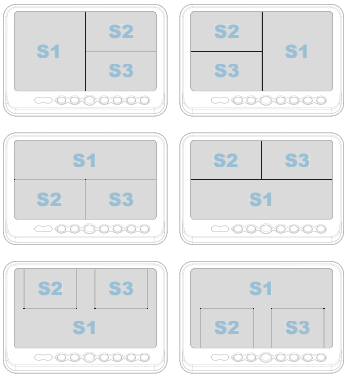
SOURCE 1 Select S1 Camera(CAM1~CAM4).

SOURCE 2 Select S2 Camera(CAM1~CAM4).

AUDIO Select SPLIT of Audio(CAM1~CAM4).

MODE Select SPLIT MODE





TRIPLE

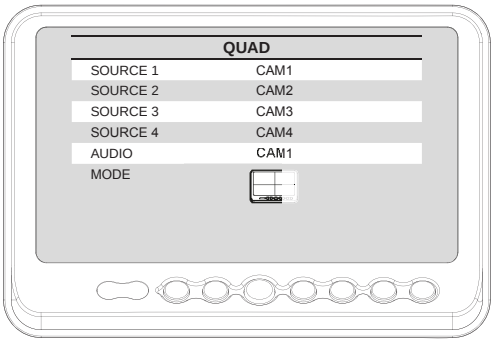
SOURCE 1 Select S1 Camera(CAM1~CAM4).

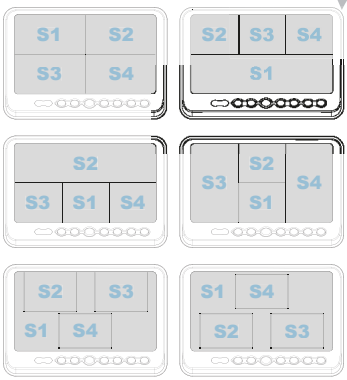
SOURCE 2 Select S2 Camera(CAM1~CAM4).

SOURCE 3 Select S3 Camera(CAM1~CAM4).

AUDIO Select TRIPLE of Audio(CAM1~CAM4).

MODE Select TRIPLE MODE





QUAD

SOURCE 1 Select S1 Camera(CAM1~CAM4).

SOURCE 2 Select S2 Camera(CAM1~CAM4).

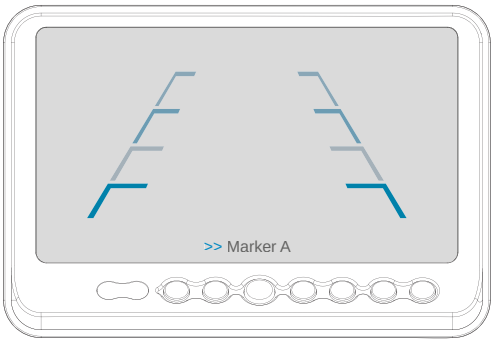
SOURCE 3 Select S3 Camera(CAM1~CAM4).

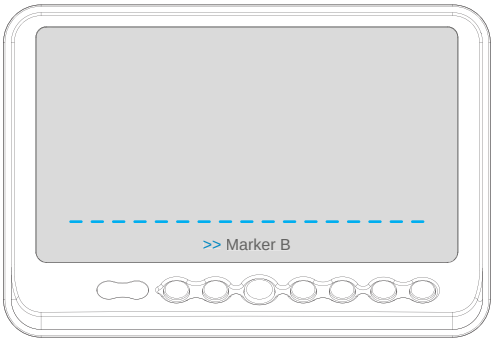
SOURCE 4 Select S4 Camera(CAM1~CAM4).

AUDIO Select QUAD of Audio(CAM1~CAM4).

MODE Select QUAD MODE

MENU





DISTANCE MARKER ADJUST

User can adjust location of distance marker.

Marker A- Parking line
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**.

Marker B- Horizontal line
User can adjust the **UP**/ **DOWN** of the lines.
User can adjust horizontal line by pressing [**UP**/**DOWN**] buttons.

LOCK ON/OFF FUNCTION

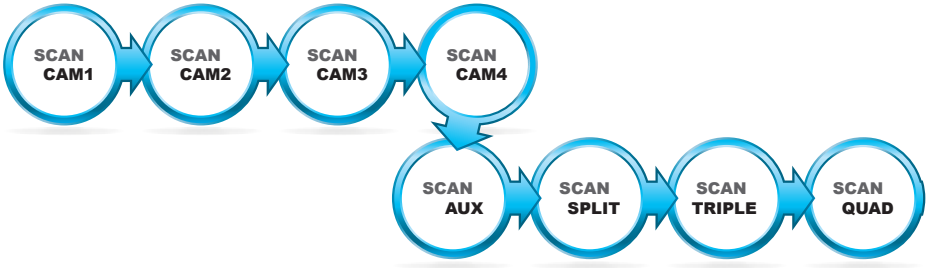
LOCK ON/OFF FUNCTION
The set up menu can be locked as prevention against unauthorized users.

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.

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.



INSTALLATION

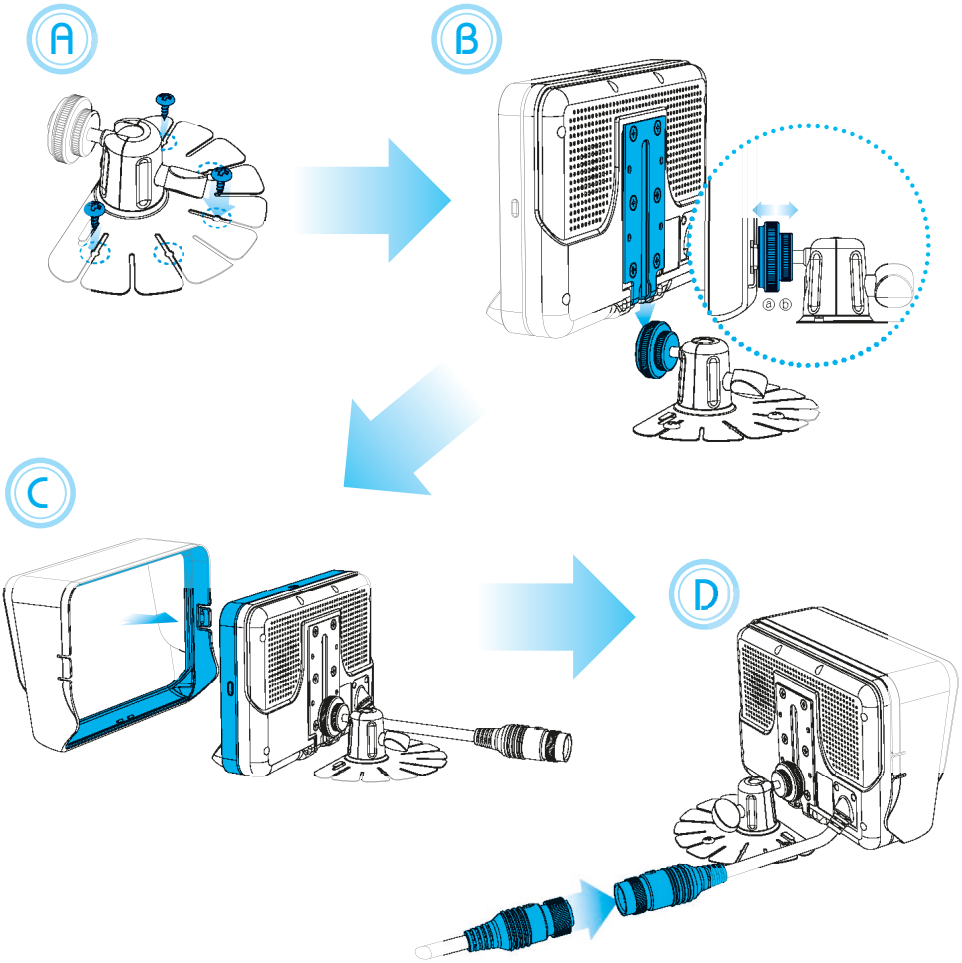
MONITOR installation with STAND BRACKET & SUNVISOR

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**.

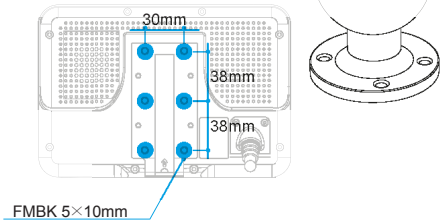
D Connect **CAMERA INPUT CABLE** to the **MONITOR**.

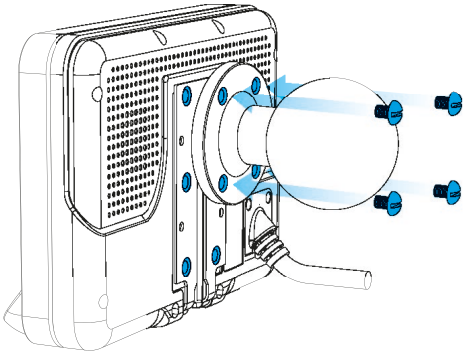


Installation of **HEAVY DUTY MOUNTING BRACKETS**

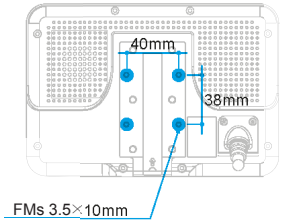
MONITOR can be connected with different type of **HEAVY DUTY MOUNTING BRACKETS**.
Please check the compatibility in advance, then please follow installation as described below.

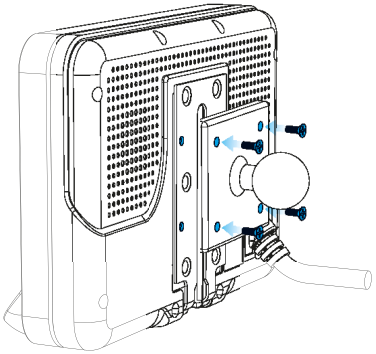
TYPE A(option)



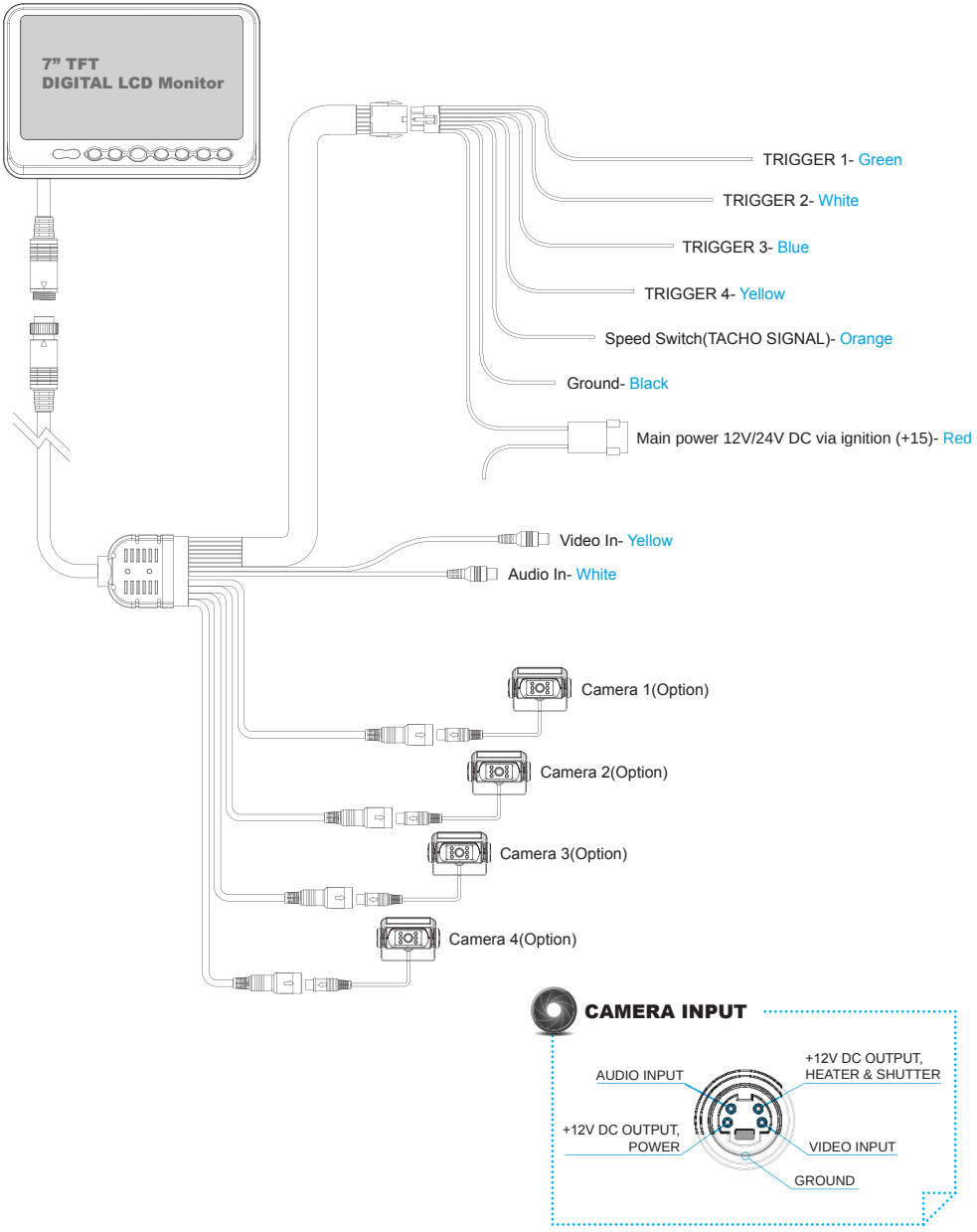


TYPE B(option)





CONNECTION


7" TFT
DIGITAL LCD Monitor
TRIGGER 1- Green
TRIGGER 2- White
TRIGGER 3- Blue
TRIGGER 4- Yellow
Speed Switch(TACHO SIGNAL)- Orange
Ground- Black
Main power 12V/24V DC via ignition (+15)- Red
Video In- Yellow
Audio In- White
Camera 1(Option)
Camera 2(Option)
Camera 3(Option)
Camera 4(Option)
CAMERA INPUT
AUDIO INPUT
+12V DC OUTPUT,
HEATER & SHUTTER
+12V DC OUTPUT,
POWER
VIDEO INPUT
GROUND

SPECIFICATION

ITEM	SPECIFICATION
LCD SCREEN SIZE	7” Wide Screen
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	15 Watt Max.
VIDEO SYSTEM	NTSC / PAL
SYNC. SYSTEM	Internal
BRIGHTNESS	400 cd/m^2
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 1/2/3/4 SPLIT TRIPLE QUAD · CAM Trigger 1/2/3/4 · Heater · Speedswitch · Auto Power · Distance marker · Auto Picture Scan · Dimmer · Language · Direction · Reset.
SUPPLIED ACCESSORY	Die-Cast Mounting Bracket / 1 pce, Screw Kit / 1set, Manual, Sun Shield / 1 pce, Power cable / 1 set
WEIGHT	±620g

MEMO

OWNER'S MANUAL

PLEASE READ CAREFULLY BEFORE
USING THIS PRODUCT.

MXN®

7" DIGITAL SPLITSCREEN TFT LCD ALL ROUND VISION MONITOR

Model: MXN-P7DQ

Design and specifications are subject to change without notice.