

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.

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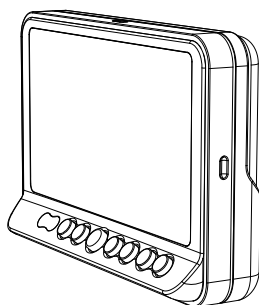
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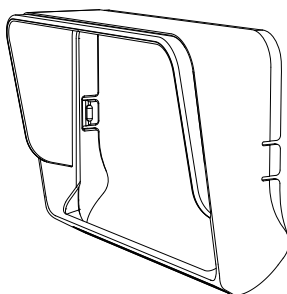
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PACKAGE CONTENTS



MONITOR



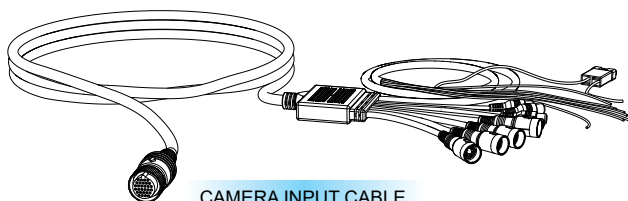
SUNVISOR



MANUAL



STAND BRACKET



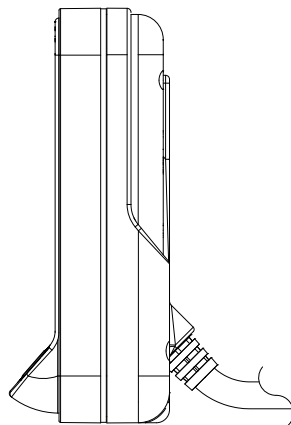
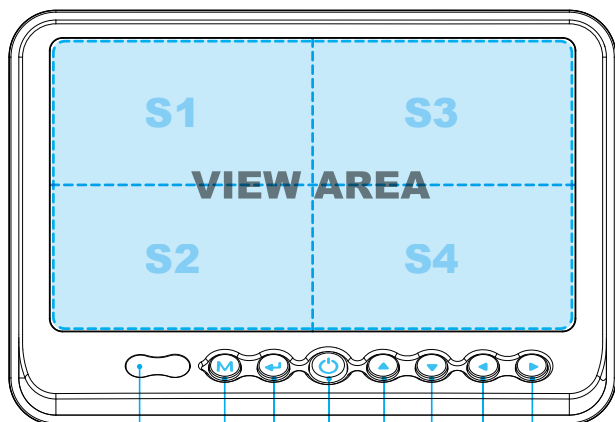
CAMERA INPUT CABLE



BRACKET SCREWS

ITEM	Q'TY
MONITOR	1
SUNVISOR	1
STAND BRACKET	1
BRACKET SCREW	3
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 select button to select the camera channel.
(CAM1-CAM2-CAM3-CAM4-CAM1...)
Use **[DOWN]** button to navigate the menu for system setting.

UP Press **[UP]** button to select the split view modes.
(SPLIT-TRIPLE-QUAD-SPLIT...)
Use **[UP]** button to navigate the menu for system setting.

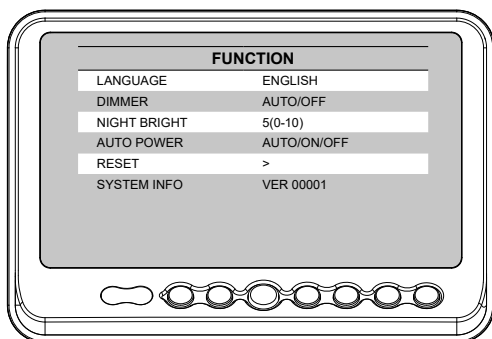
POWER Press **[POWER]** button to turn on/off the monitor.

SELECT Press **[SELECT]** button to select the respective camera channel.
(CAM1-CAM2-CAM3-CAM4-SPLIT-TRIPLE-QUAD-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**.

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.

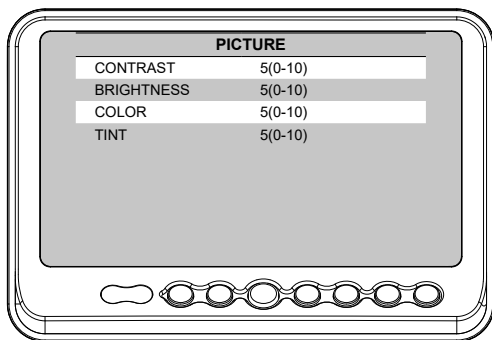
RESET

Press **>** button to go the factory default setting.

SYSTEM INFO.

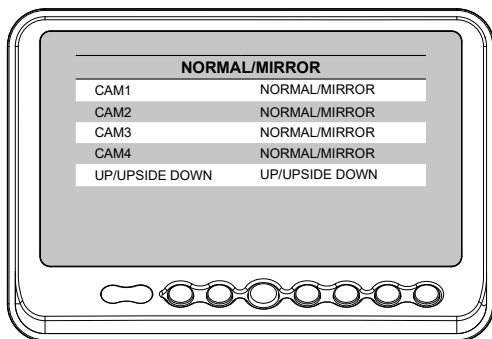
Refers to system information of the monitor.

■ SYSTEM SETTING



PICTURE

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



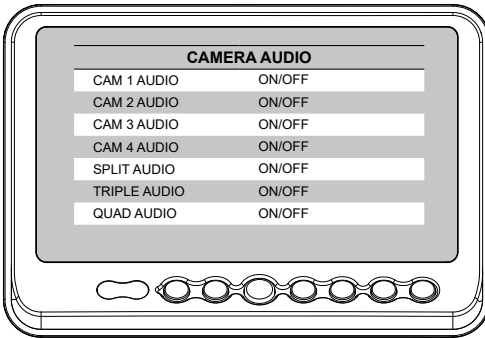
NORMAL/MIRROR

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.

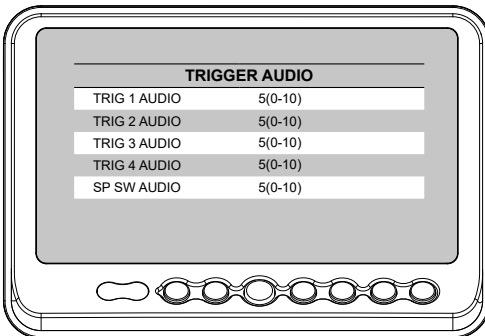


CAMERA AUDIO

Audio **MUTE** Mode in normal mode.

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

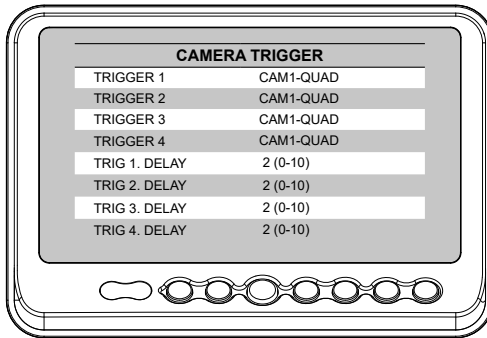
When the mode is **[OFF]**, audio will be off (mute).



TRIGGER AUDIO

Press **[LEFT/RIGHT]** button to adjust preferred **TRIGGER AUDIO VOLUME**.

SYSTEM SETTING



CAMERA TRIGGER

TRIGGER 1/2/3/4 (Trigger source selection)

Select the required trigger source at CAM1/CAM2/CAM3/CAM4/SPLIT/TRIPLE/QUAD

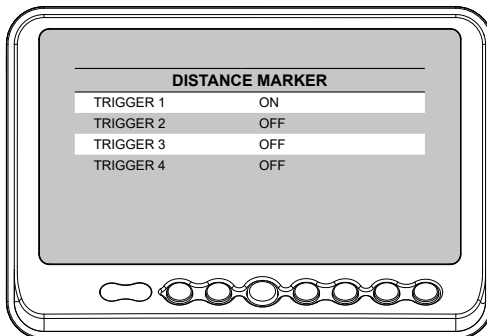


REMARK

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

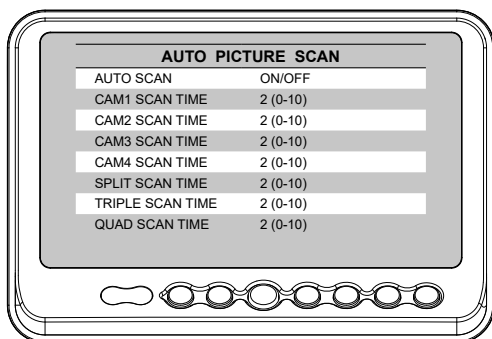
TRIG. DELAY

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.



AUTO PICTURE SCAN

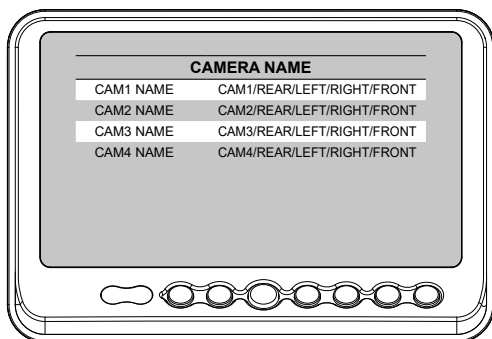
Each scanning time of CAM1/CAM2/CAM3 /CAM4/SPLIT/TRIPLE/QUAD can be selected.

REMARK

If the **SCAN TIME** is set as[0], monitor skips its channel during the scanning.

Select AUTO SCAN [**ON**] to **ACTIVATE** auto scanning function.

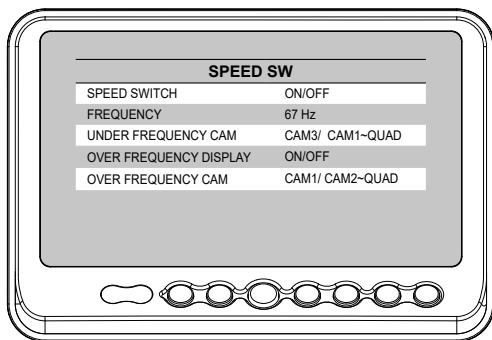
Select AUTO SCAN [**OFF**] to **INACTIVATE** auto scanning function.



CAMERA NAME

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

■ SYSTEM SETTING



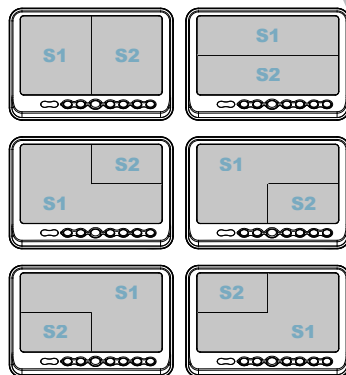
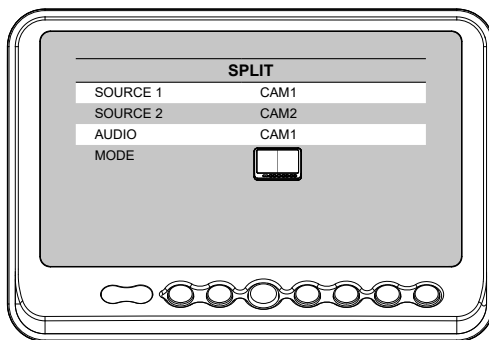
SPEED SWITCH

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



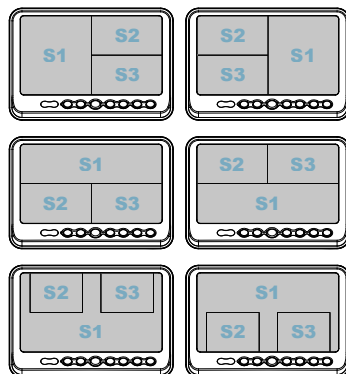
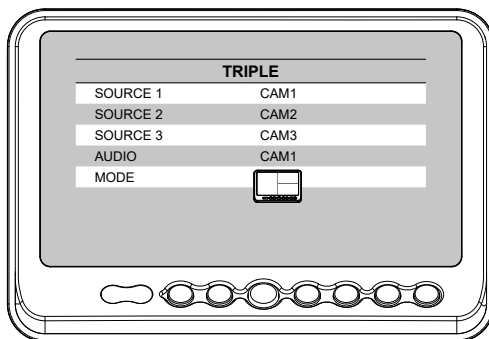
SPLIT

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).

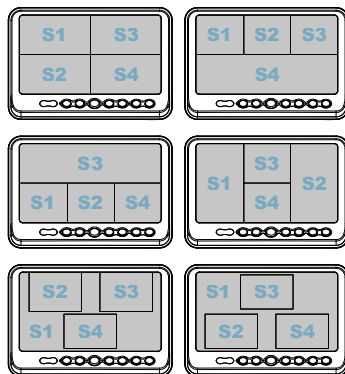
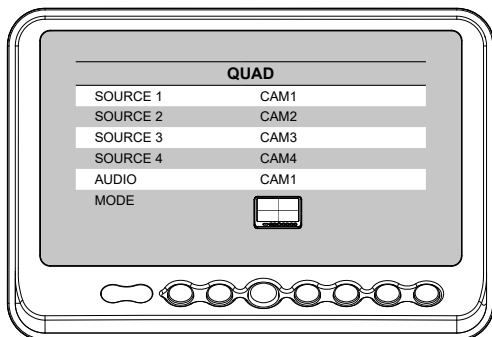
SOURCE 2 Select S2 Camera(CAM1~CAM4).

SOURCE 3 Select S3 Camera(CAM1~CAM4).

AUDIO Select TRIPLE of Audio(CAM1~CAM4).

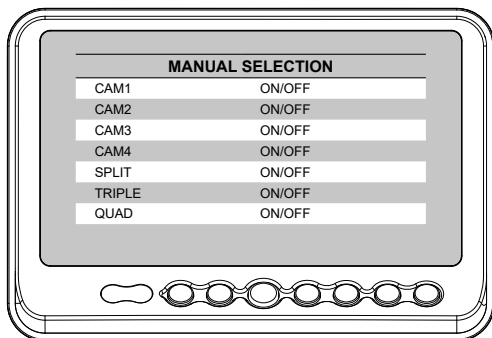
MODE Select TRIPLE MODE

MENU



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

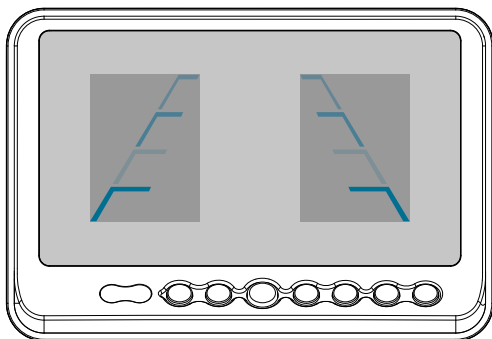


MANUAL SELECTION

Only the **ON** selected cameras and the **ON** selected Display modes will be visible when manually pushing the channel select button.
The **OFF** selected cameras and the **OFF** selected Display modes will be skipped when manually pushing the channel select button.

NOTE

Triggers neglect the **MANUAL SELECTION** settings. In case of Trigger activation these **ON/OFF** settings will be overruled.



DISTANCE MARKER ADJUST

User can adjust location of distance marker.

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**.

■ MENU



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.

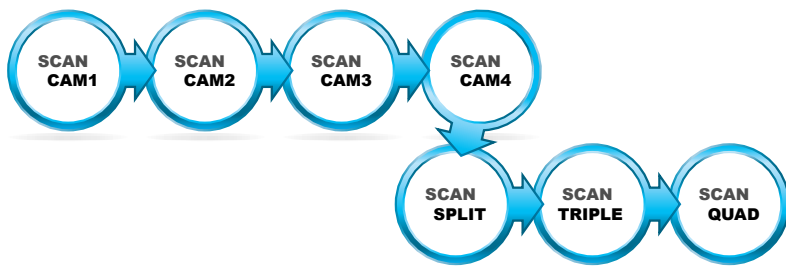


SCAN ON/OFF FUNCTION

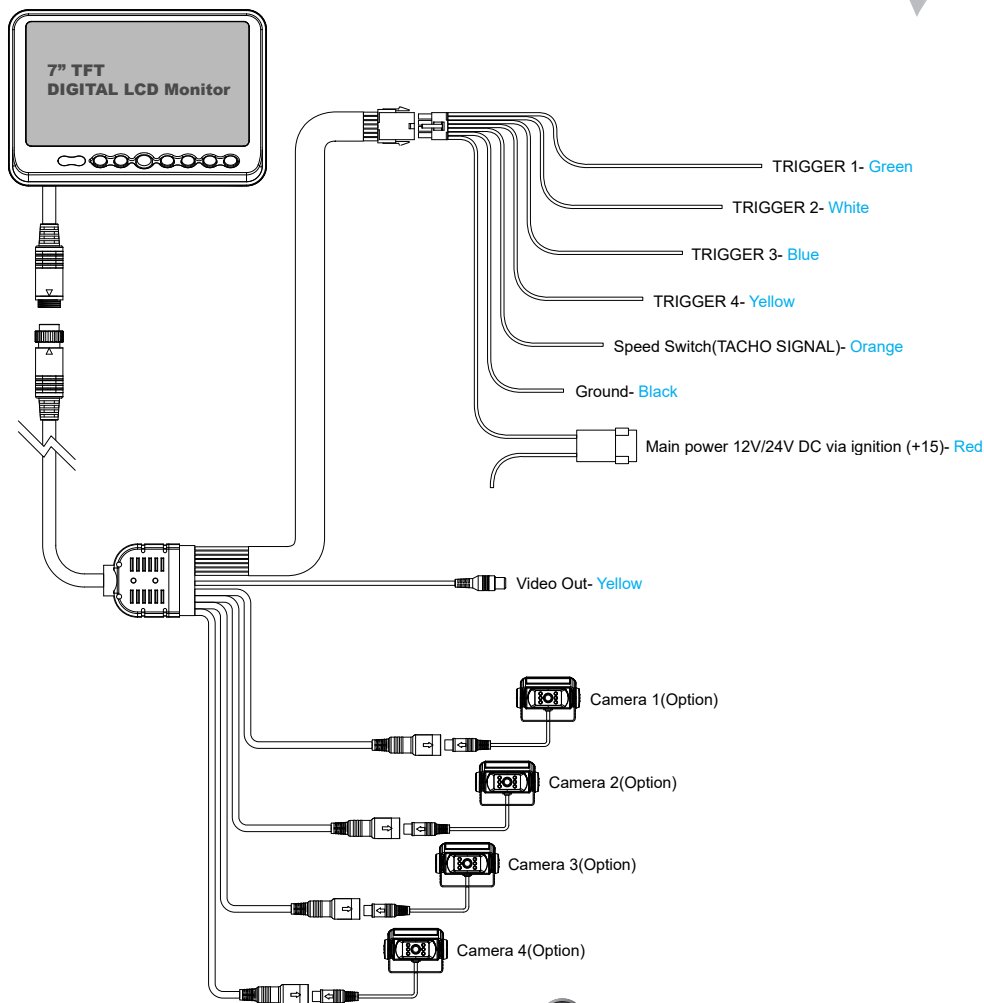
Each scanning time of CAM1/CAM2/CAM3/CAM4/SPLIT/TRIPLE/QUAD can be selected.

Select **AUTO SCAN [ON]** to ACTIVATE auto scanning function.

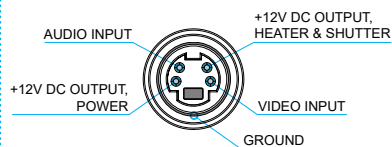
Select **AUTO SCAN [OFF]** to Inactivate auto scanning function.



CONNECTION



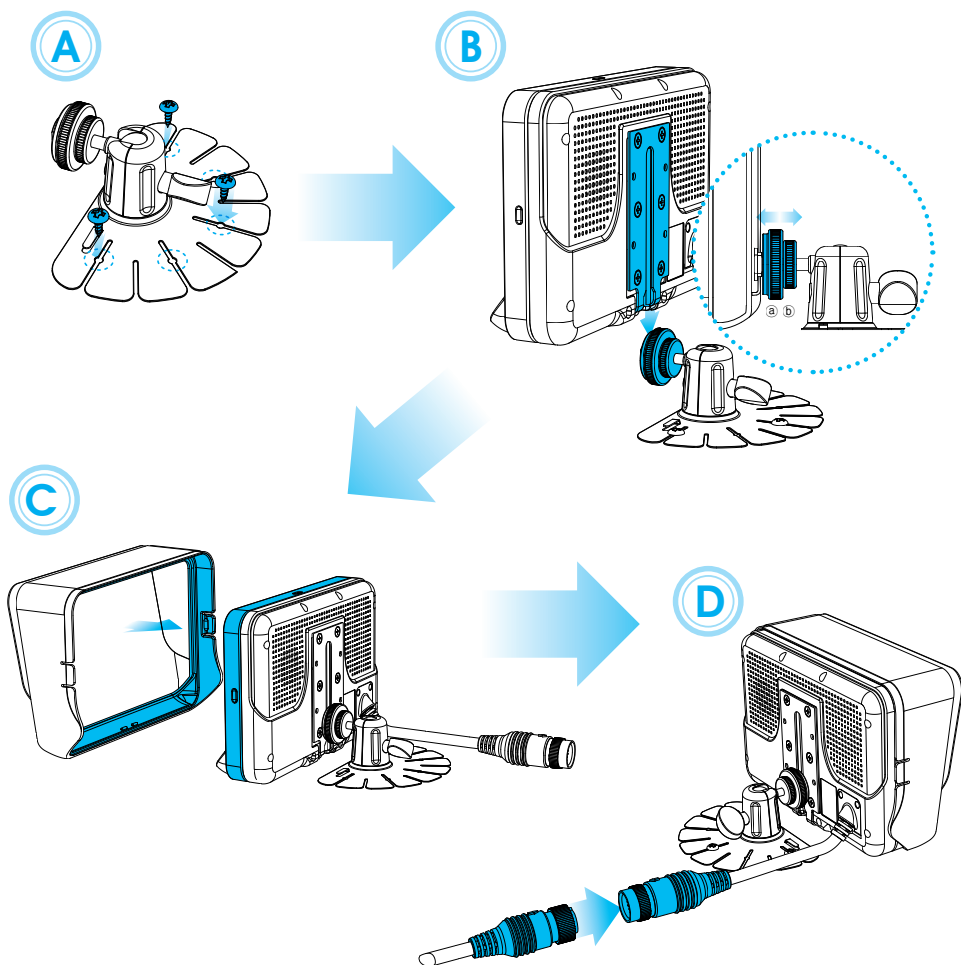
CAMERA INPUT



■ INSTALLATION

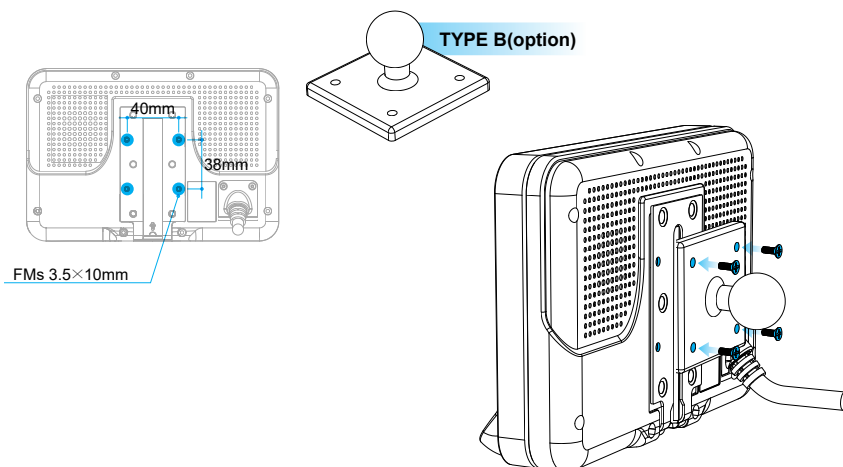
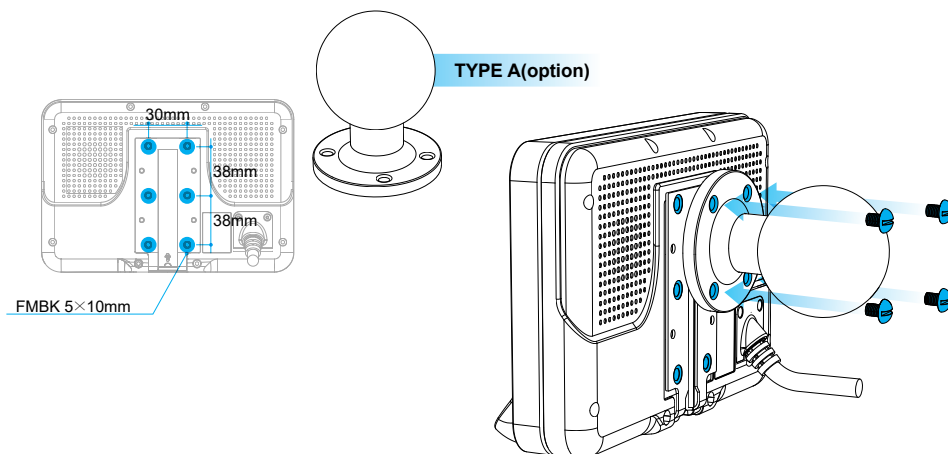
MONITOR installation with **STAND BRACKET & SUNVISOR**

- 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.



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 · 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

Handwriting practice area with horizontal dotted lines.

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7" DIGITAL SPLITScreen TFT LCD ALL ROUND VISION MONITOR



Model: MXN-P7DQ

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