



7" TFT DIGITAL LCD Monitor

for MXN-HD7DMQ - Owner's Manual

I N D E X

PACKAGE CONTENTS 03

OPERATION 04

SYSTEM SETTING 05

FUNCTION 05

PICTURE 06

NORMAL/MIRROR 06

CAMERA AUDIO 07

TRIGGER AUDIO 08

CAMERA TRIGGER 08

DISTANCE MARKER 08

MARKER 08

AUTO PICTURE SCAN 09

CAMERA NAME 09

SPEED SWITCH 10

MENU 11

SPLIT 11

TRIPLE 11

QUAD 12

MANUAL SELECTION 12

DISTANCE MARKER ADJUST 13

LOCK ON/OFF FUNCTION 14

SCAN ON/OFF FUNCTION 14

CONNECTION 15

CAMERA INPUT 15

INSTALLATION 16

MONITOR INSTALLATION WITH STAND BRACKET & SUNVISOR 16

INSTALLATION OF HEAVY DUTY MOUNTING BRACKETS 17

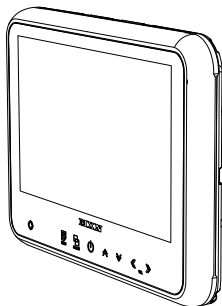
SPECIFICATION 18

MEMO 19

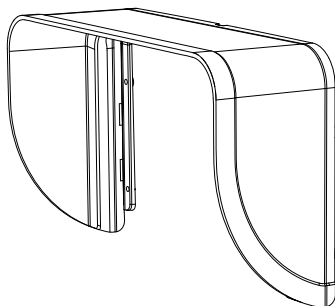




PACKAGE CONTENTS



MONITOR



SUNVISOR



SUNVISOR SCREWS



BRACKET SCREWS



STAND BRACKET

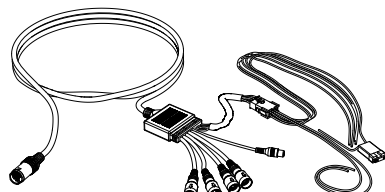


MANUAL



WARNING

USE DEDICATED HD CABLE
ONLY.
DO NOT INTERCHANGE

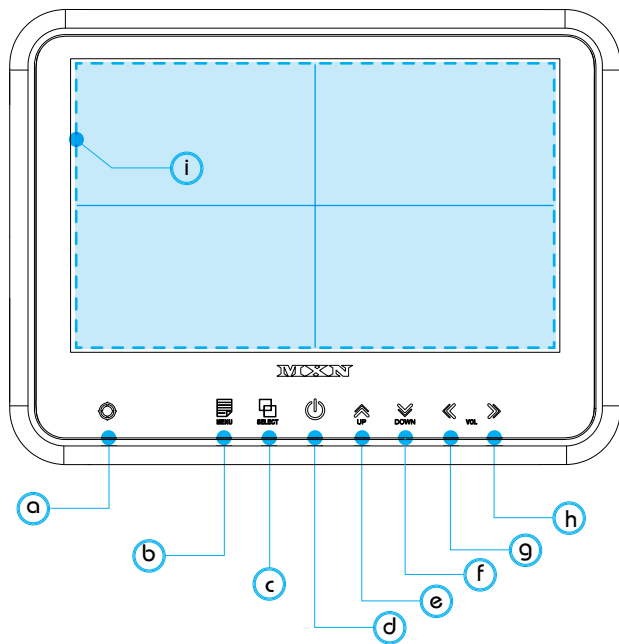


CAMERA INPUT CABLE

ITEM	Q'TY
MONITOR	1
SUNVISOR	1
SUNVISOR SCREW	4
STAND BRACKET	1
BRACKET SCREW	3
CAMERA INPUT CABLE	1
MANUAL	1



OPERATION



A. DAY/NIGHT SENSOR (CDS)

Automatic brightness control sensor.

B. MENU

Press [MENU] button for system setting.

C. SELECT

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

D. POWER

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

E. UP

Press [UP] button to select split screen channel.
[SPLIT - TRIPLE - QUAD - SPLIT...]
Use [UP] button to navigate the menu upward for system setting.

F. DOWN

Press [DOWN] button to select camera channel
[CAM1 - CAM2 - CAM3 - CAM4 - CAM1...]
Use [DOWN] button to navigate the menu downward for system setting.

G. LEFT

Press [LEFT/RIGHT] button to adjust monitor volume.

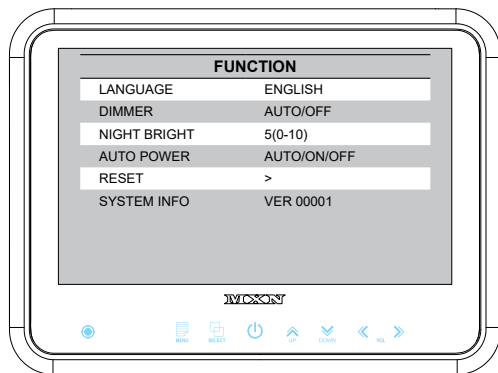
H. RIGHT

Use [LEFT/RIGHT] button to change OSD setting during system setting.

I. VIEW AREA



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 (Brightness during night conditions)

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

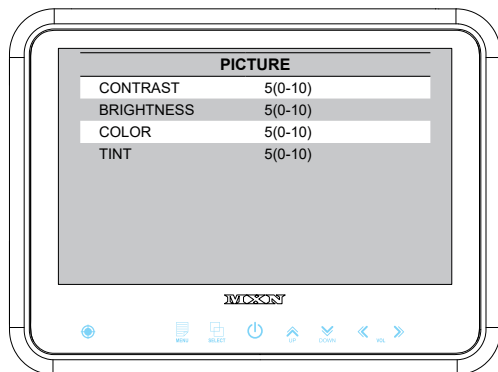
Press **>>** button to go the factory default setting.

SYSTEM INFO.

Refers to system information of the monitor.

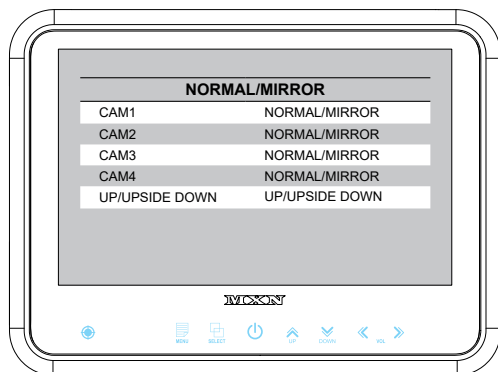


SYSTEM SETTING



PICTURE

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



NORMAL/MIRROR

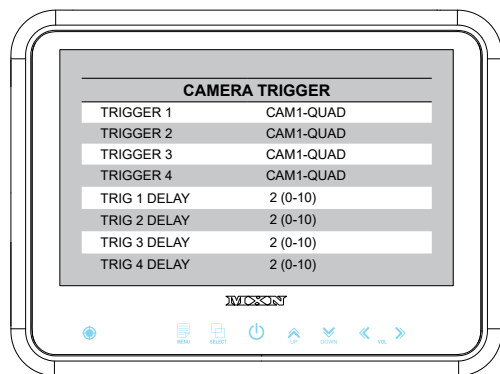
NORMAL/MIRROR

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.

7" TFT DIGITAL LCD MONITOR



CAMERA TRIGGER

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

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

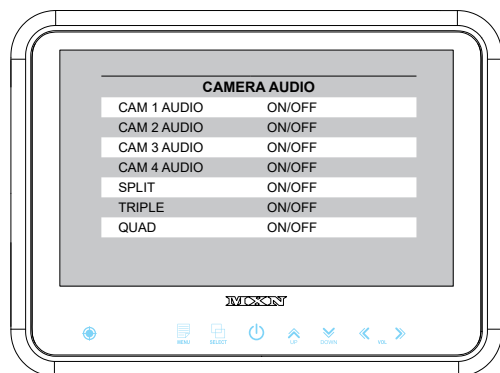


REMARK

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.

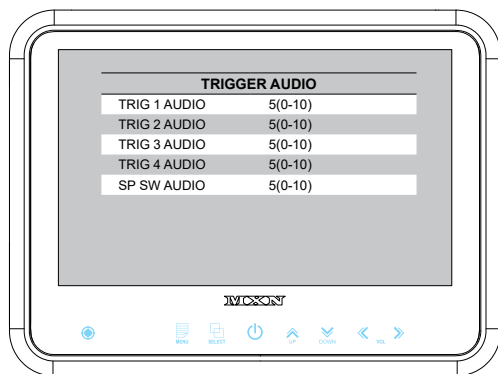


CAMERA AUDIO

Audio **MUTE** Mode in normal mode.

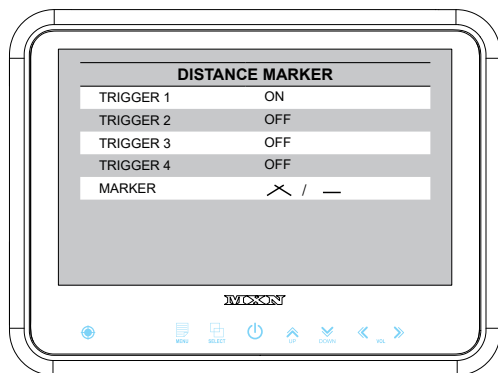
When the mode is **[ON]**, audio will be on (activated)

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



TRIGGER AUDIO

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



DISTANCE MARKER

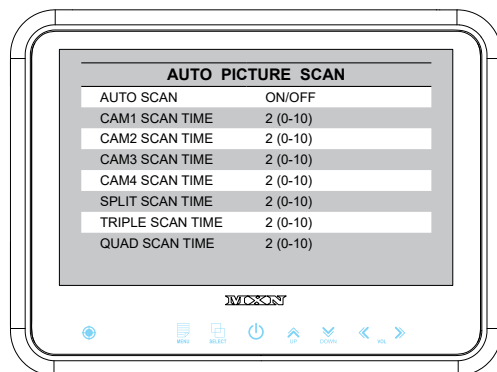
Select **ON** to have **DISTANCE MARKER** for CAM1, CAM2, CAM3, CAM4. **DISTANCE MARKER** is displayed as the trigger signal is activated.



MARKER

Select of **DISTANCE MARKER**. ✗ or —

7" TFT DIGITAL LCD MONITOR



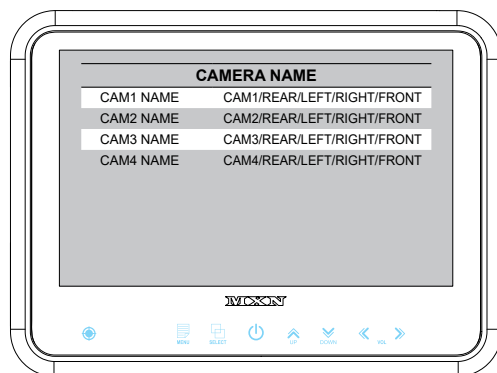
AUTO PICTURE SCAN

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.

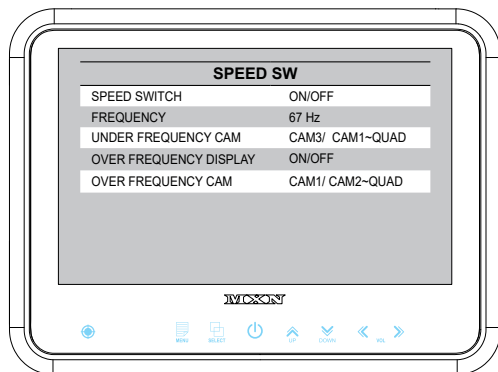


CAMERA NAME

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



SYSTEM SETTING



SPEED SWITCH

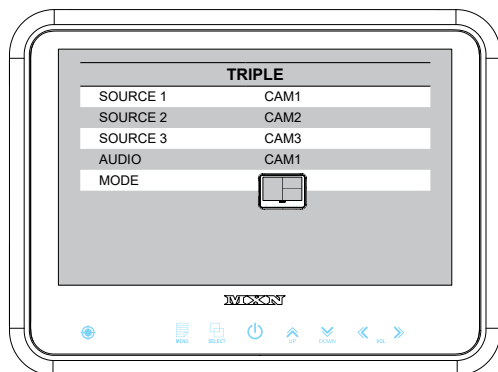
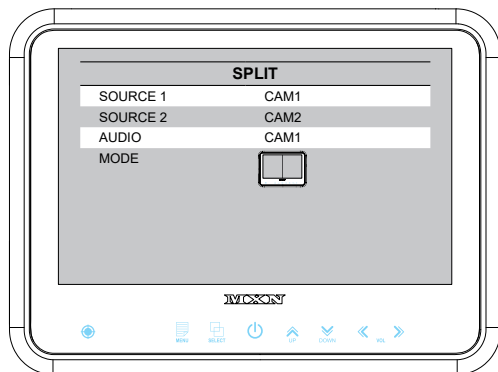
The orange wire needs to be connected with the vehicle's tacho signal and via **MENU** the **SPEED SWITCH** needs to be selected **ON**. At **FREQUENCY** 67Hz setting (and most common used tacho signal) the selected camera will be displayed during a speed of 0~33km/h. Select the concerning camera via **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).

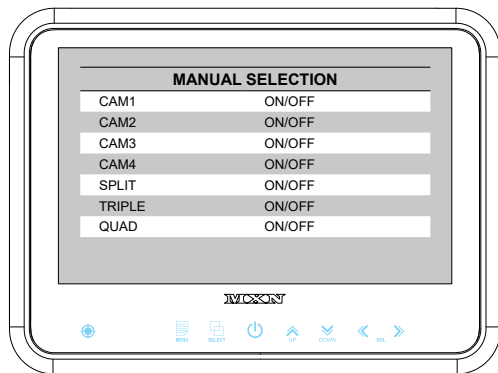
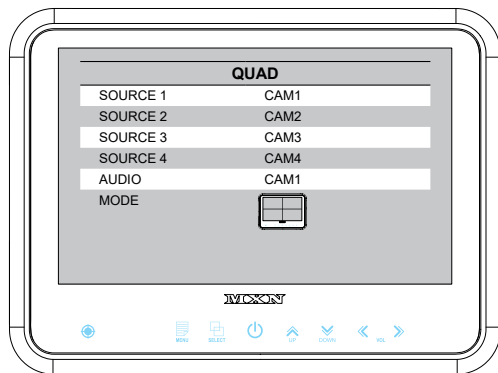
MODE

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



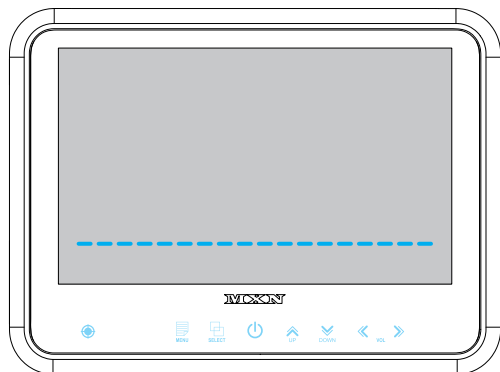
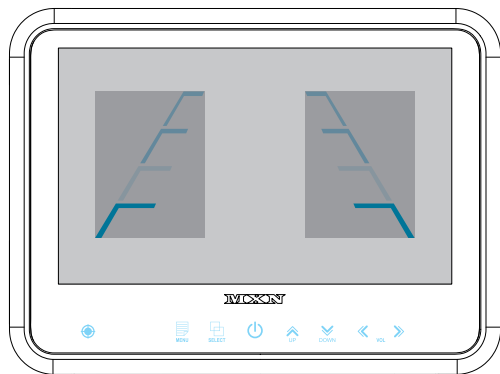
MANUAL SELECTION

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.

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.



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.

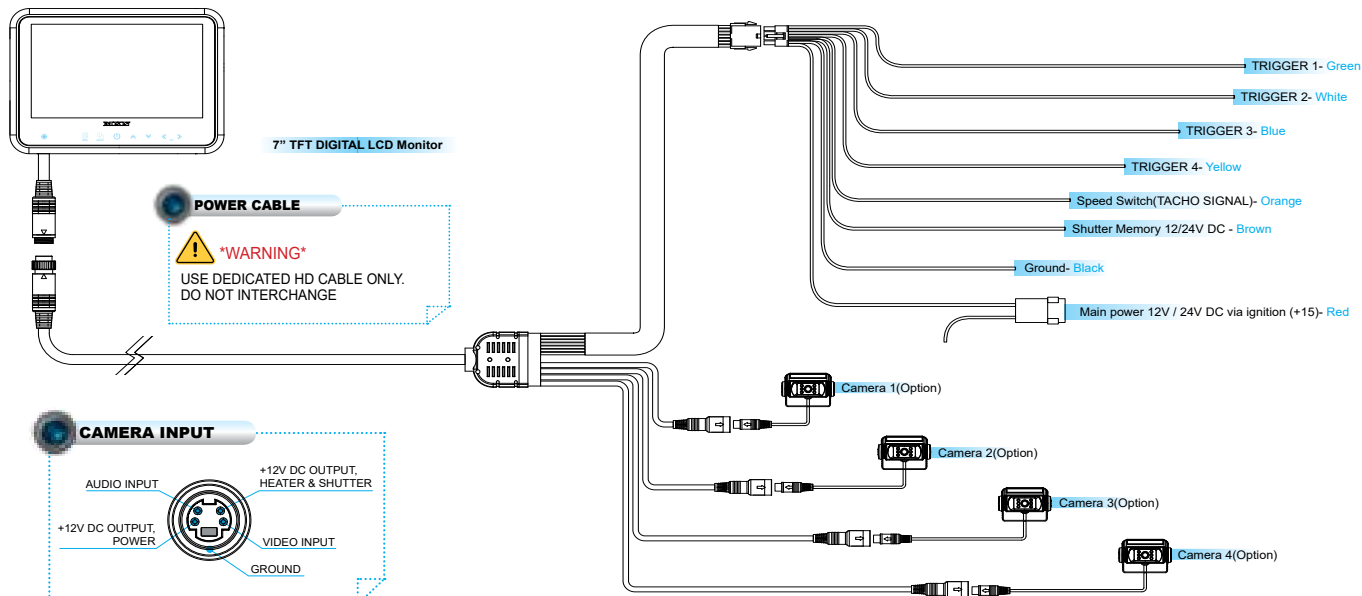
Select **AUTO SCAN [ON]** to ACTIVATE auto scanning function.

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





CONNECTION



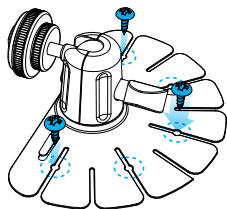


INSTALLATION

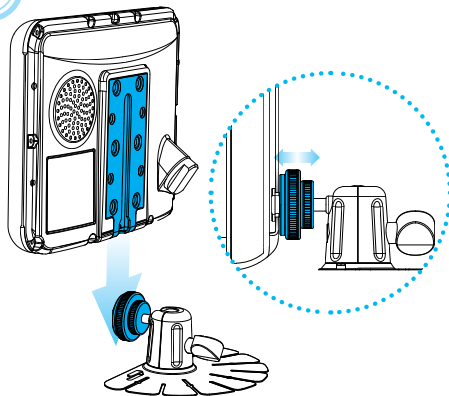
MONITOR INSTALLATION WITH STAND BRACKET & SUNVISOR

- 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** Attach **SUNVISOR** to the **MONITOR** and fix it with the supplied screws.
- D** Connect **CAMERA INPUT CABLE** to the **MONITOR**.

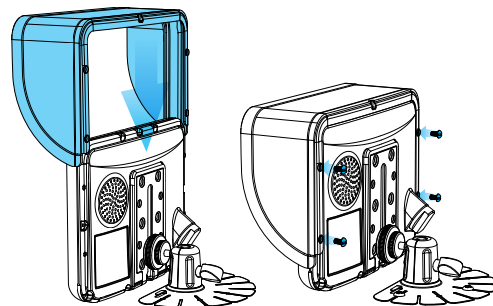
A



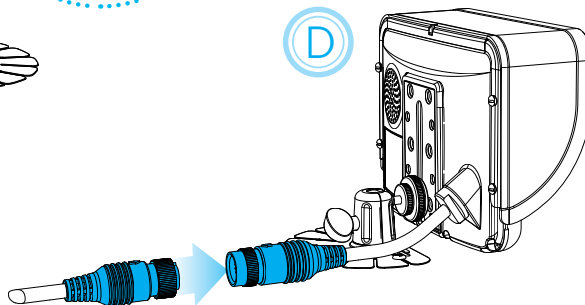
B



C



D

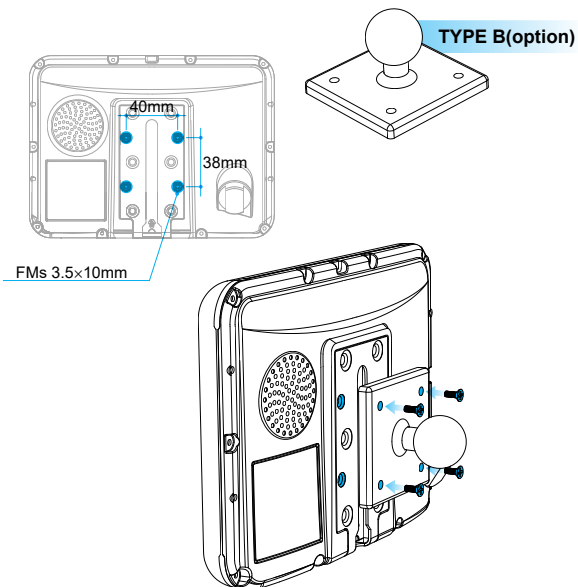
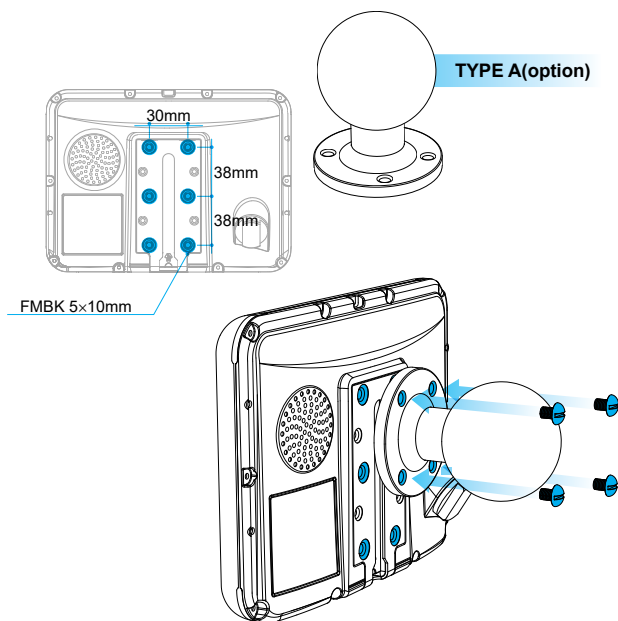


7" TFT DIGITAL LCD MONITOR

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 Diagonal
Dimensions	190(W) × 142(H) × 42.85(D)mm
Display dimensions	153.3 × 86.94mm
Power Input	DC 12 to 30 Volt Free Input
Power Consumption	15 Watt Max.
Video System	CVBS (NTSC/PAL), AHD 720P/1080P, HD-TVI 720P/1080P
Sync. System	Internal
Brightness	450 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	8 ohm, 0.3 Watt Max.
Operating Temp.	-25°C ~ +75°C
Storage Temp.	-30°C to + 85°C
Impact Rating	4G
Camera Connector	4-pin mini DIN (MXN configuration)
Housing	Soft black(Al12)
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	790g



MEMO

-
-
-
-
-
-
-
-
-
-
-



7" TFT DIGITAL LCD Monitor

for MXN-HD7DMQ - Owner's Manual

MXN®