

OWNER'S MANUAL
PLEASE READ CAREFULLY BEFORE
USING THIS PRODUCT.

MXN[®]

7" DIGITAL 2-DIN TFT LCD ALL ROUND VISION MONITOR



Model: MXN9500DD

Design and specifications are subject to change without notice.

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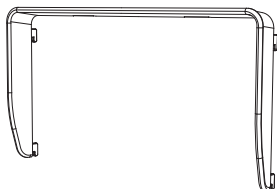
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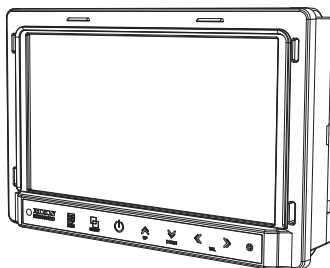
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PACKAGE CONTENTS



SUNVISOR



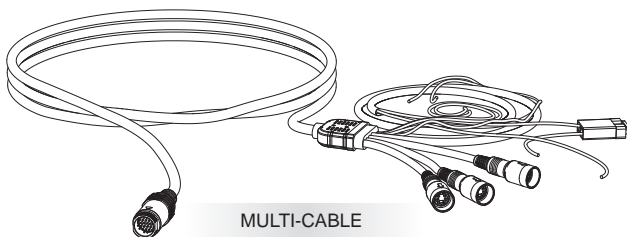
MONITOR



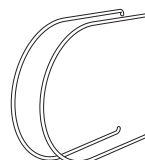
MANUAL



BRACKET



MULTI-CABLE



REMOVER



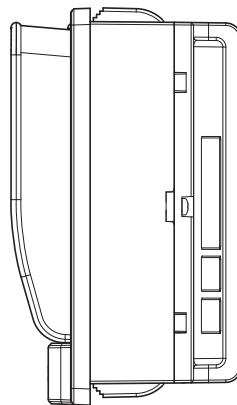
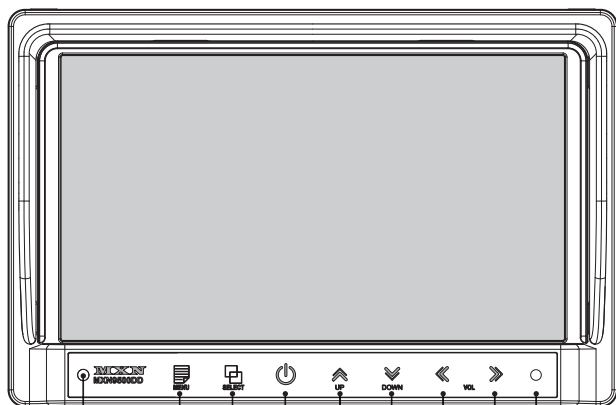
CABLE CLIP



BRACKET SCREWS

ITEM	Q'TY
MONITOR	1
SUNVISOR	1
REMOVER	2
BRACKET	1
BRACKET SCREW	3
CABLE CLIP	2
MULTI-CABLE	1
MANUAL	1

OPERATION



SPEAKER

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.

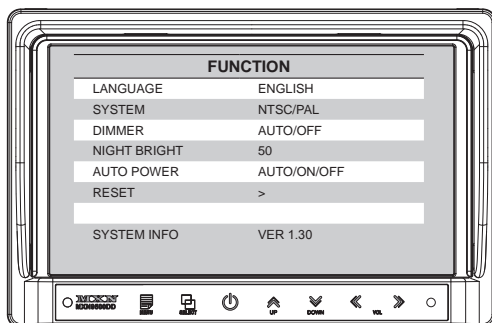
POWER Press **[POWER]** button to turn on/off the monitor.

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

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

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

SYSTEM SETTINGS



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 and button illumination according to the environment's light conditionst.

NIGHT BRIGHT

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

LANGUAGE

Total 6 OSD languages can be selected: [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, after vehicles ignition **OFF** and **ON**.

[ON] Monitor starts up 『**Power-ON**』 mode automatically.

[OFF] Monitor starts up 『**Stand-By**』 mode automatically.

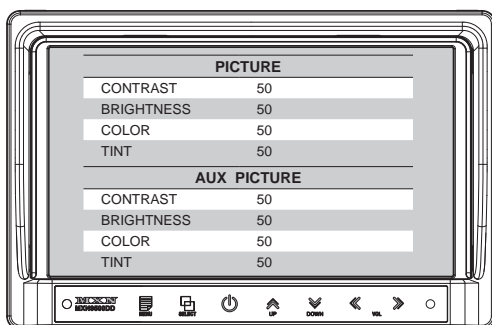
RESET

Press > button to go the factory default settings.

SYSTEM INFO.

Refers to system information of the monitor.

SYSTEM SETTINGS

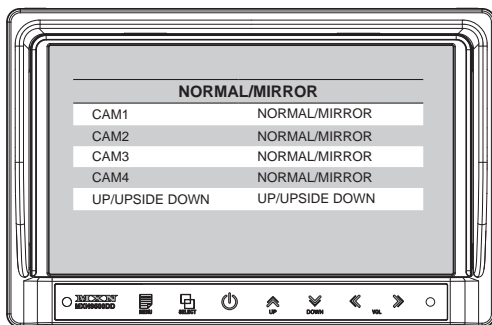


PICTURE MENU

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

User can adjust picture setting values for **CAMERA CHANNELS** and **AUX CHANNEL** individually. Via **PICTURE MENU**, the picture of CAM1, CAM2, CAM3, CAM4, SPLIT, TRIPLE, QUAD MODE can be adjusted.

Via **AUX PICTURE MENU**, the picture of aux channel can be adjusted.



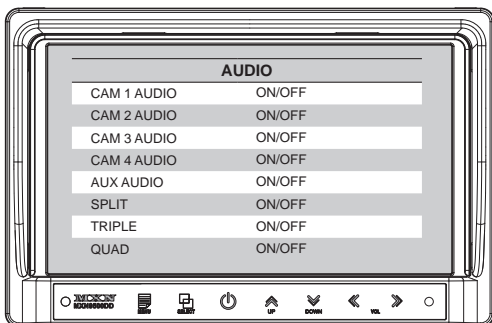
NORMAL/MIRROR

NORMAL/MIRROR

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

UP/UPSIDE DOWN

Camera pictures can be rotated 180 degree as **UP/DOWN** image.

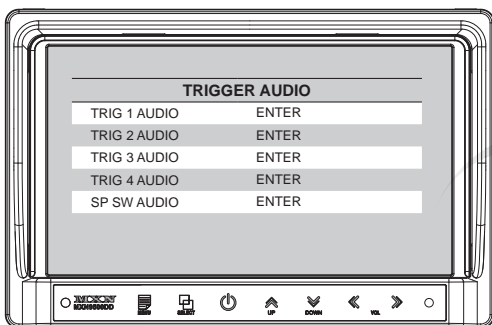


AUDIO

During manual channel select the audio per channel can be selected **ON** or **OFF** individually.

When the mode is **[ON]**, audio will be on (activated) during manual camera selection.

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

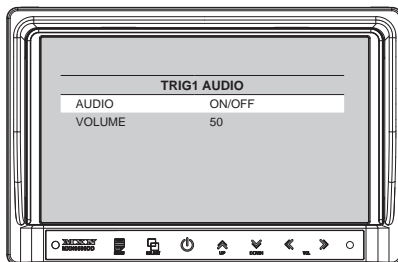


TRIGGER AUDIO

Audio **ON** or **OFF** during Trigger mode.

Choose the trigger and then push **[ENTER]** via **SELECT** button. The Audio setting menu will be shown as the drawing next to this text.

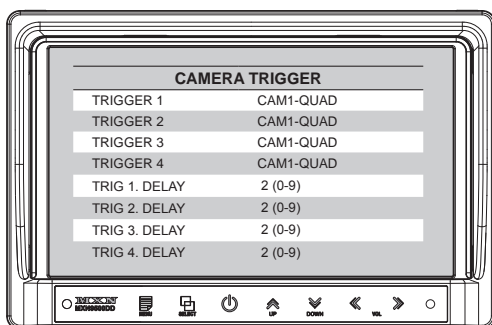
Choose the required volume level per trigger.



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

When the mode is **[OFF]**, audio will be off (mute) during Trigger mode (user can not adjust the volume manually during Trigger activation).

SYSTEM SETTINGS



CAMERA TRIGGER

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

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

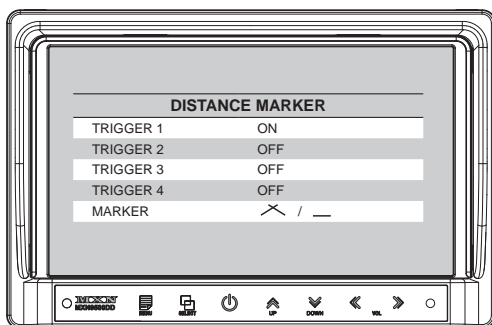


REMARK

TRIGGER PRIORITY: TRIGGER 1 > TRIGGER 2 > TRIGGER 3 > TRIGGER 4
In case DC power at all triggers at the same time, then Trigger 1 has highest priority.

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 the monitor flashing **ON-OFF, ON-OFF, etc..**

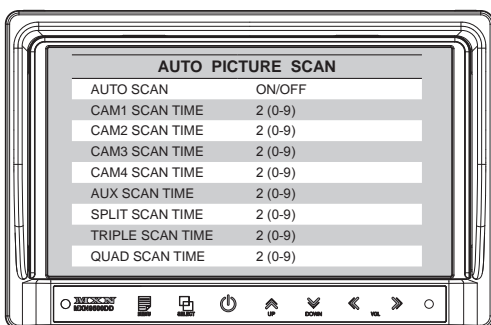


DISTANCE MARKER

Select **ON** to have **DISTANCE MARKER** for CAM1, CAM2, CAM3, CAM4 during Trigger Mode.
The **DISTANCE MARKER** is displayed only when the trigger is activated.

MARKER

Select **DISTANCE MARKER**. ⋈ or —



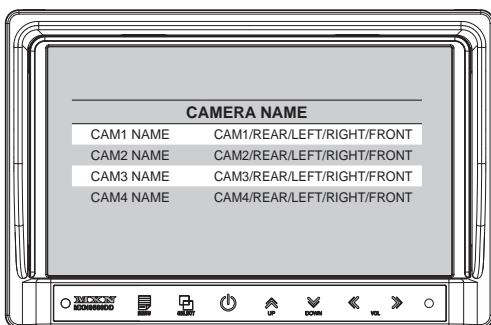
AUTO PICTURE SCAN

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



REMARK

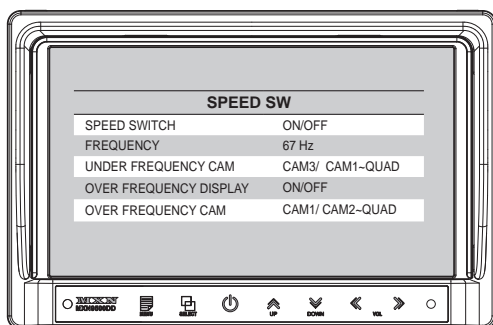
If the **SCAN TIME** is set as [0], monitor skips its channel during the scanning.
Press [UP] button for 4 seconds to **ACTIVATE/INACTIVATE** auto scanning function.



CAMERA NAME

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

SYSTEM SETTINGS

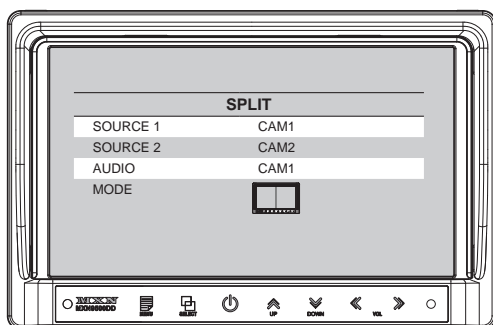
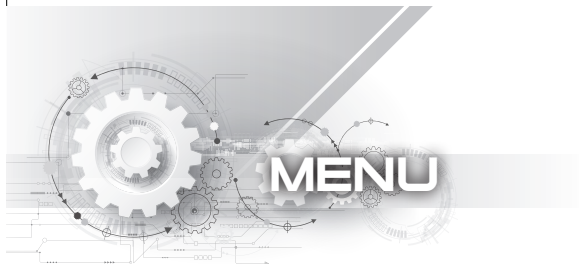


SPEED SWITCH

The orange wire needs to be connected with the vehicle's analogue tacho signal and via **MENU** the **SPEED SWITCH** needs to be selected **ON**. At **FREQUENCY** 67Hz setting (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 vehicle's 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 the 『**SPEED SWITCH**』 function.



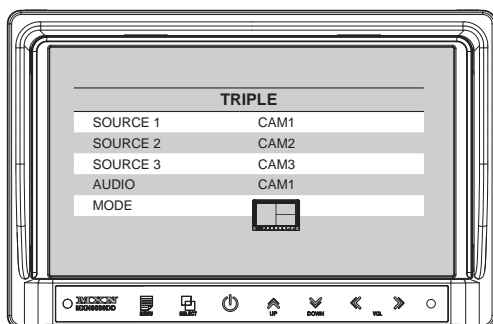
SPLIT configuration:

SOURCE 1 Select S1 Camera (CAM1~CAM4).

SOURCE 2 Select S2 Camera (CAM1~CAM4).

AUDIO Select Audio (CAM1~CAM4).

MODE Select the preferred **SPLIT MODE**.



TRIPLE configuration:

SOURCE 1 Select S1 Camera (CAM1~CAM4).

SOURCE 2 Select S2 Camera (CAM1~CAM4).

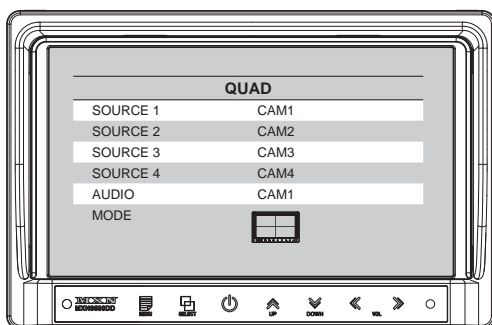
SOURCE 3 Select S3 Camera (CAM1~CAM4).

AUDIO Select Audio (CAM1~CAM4).

MODE Select the preferred **TRIPLE MODE**.

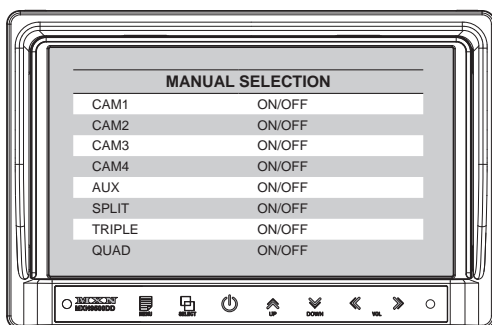


MENU



QUAD configuration:

- 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 Audio (CAM1~CAM4).
- MODE** Select the preferred **QUAD MODE**.



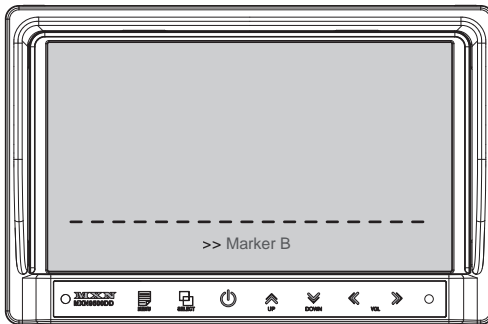
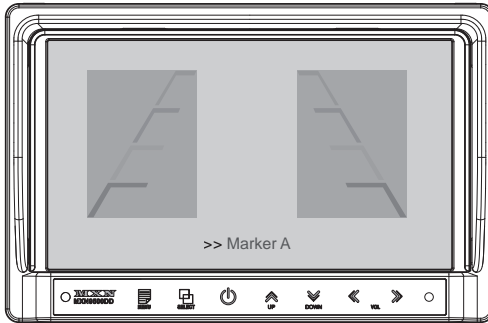
MANUAL SELECTION

Only the **ON** selected cameras and the **ON** selected Display modes (SPLIT/TRIPLE/QUAD) will be visible when manually pushing the channel **SELECT** button.
The **OFF** selected cameras and the **OFF** selected Display modes (SPLIT/TRIPLE/QUAD) 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 ADJUSTMENT

User can adjust position 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 horizontal line's position by pressing **[UP/ DOWN]** buttons.



MENU

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 user can adjust settings in the **PICTURE MENU**.

LOCK OFF mode

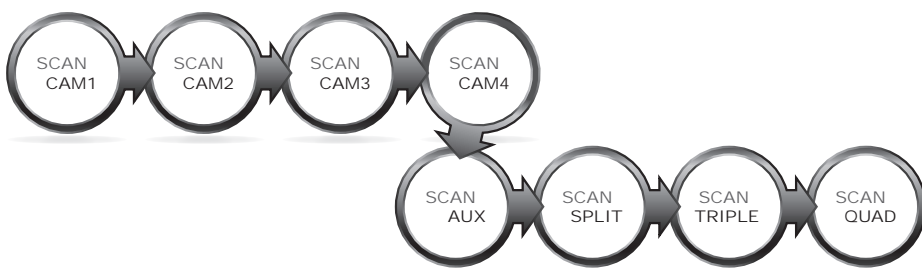
At **Power-ON** mode, hold **[DOWN]** button pressed for 10 seconds to set up **LOCK OFF** function.

When **[UNLOCKED]** is displayed on the screen, user can adjust all menu settings.

AUTO PICTURE SCAN ON/OFF FUNCTION

At **Power-ON** mode, hold **[UP]** buttons pressed for 4 seconds to activate Auto Scan Picture function.

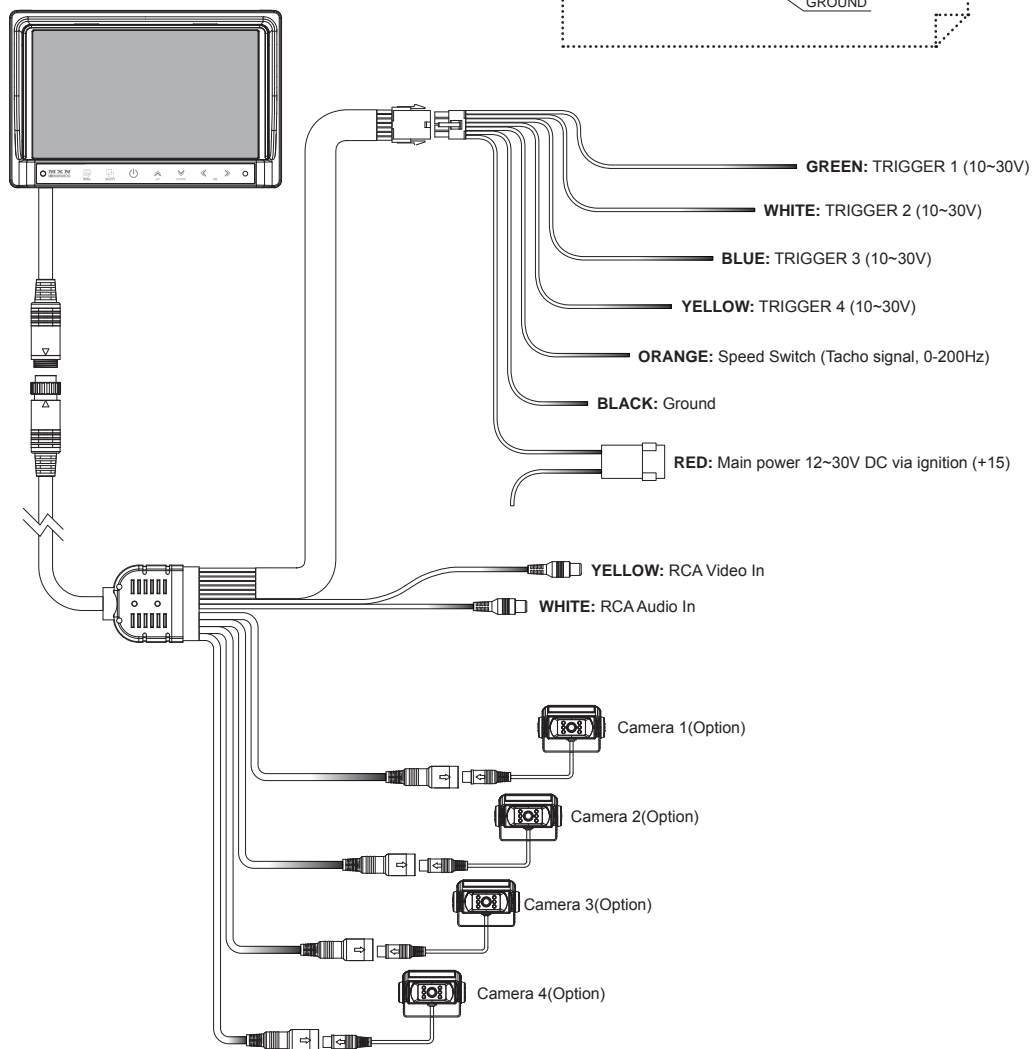
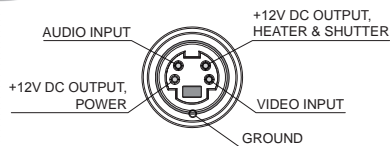
During the auto scanning mode, press **[UP]** button for 4 seconds to inactivate Auto Scan Picture function.



CONNECTIONS



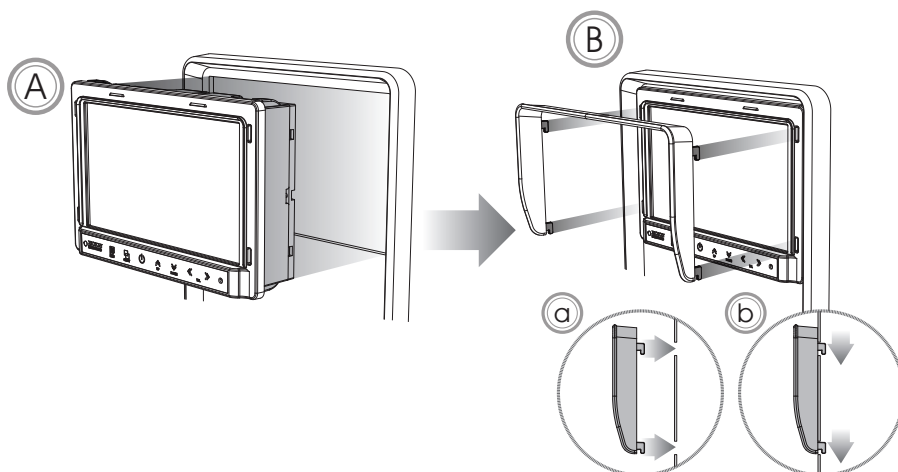
CAMERA INPUT



INSTALLATION

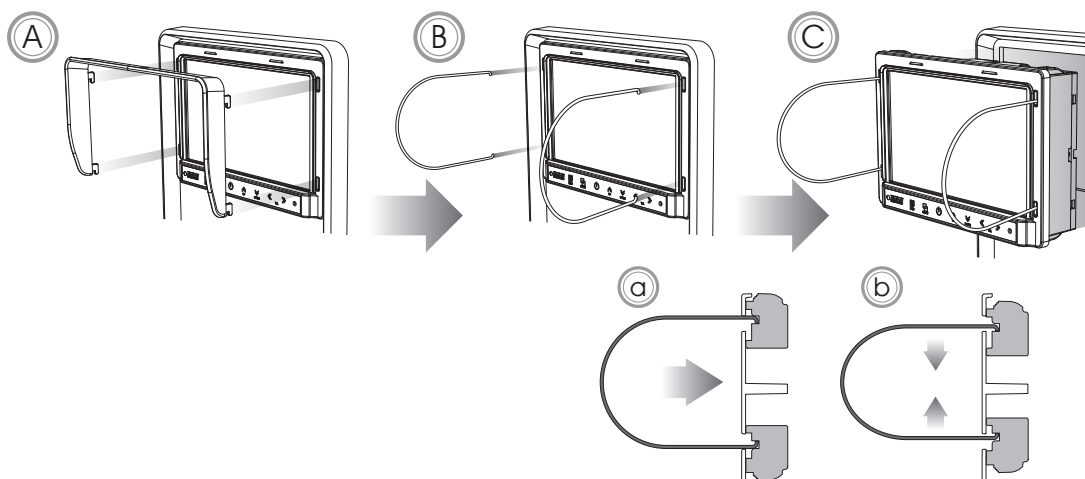
IN-DASH INSTALLATION

- A Insert the monitor into 2DIN size hole in the vehicle's dashboard.
- B Connect the sun visor with the monitor at insert holes as shown below. (a, b)



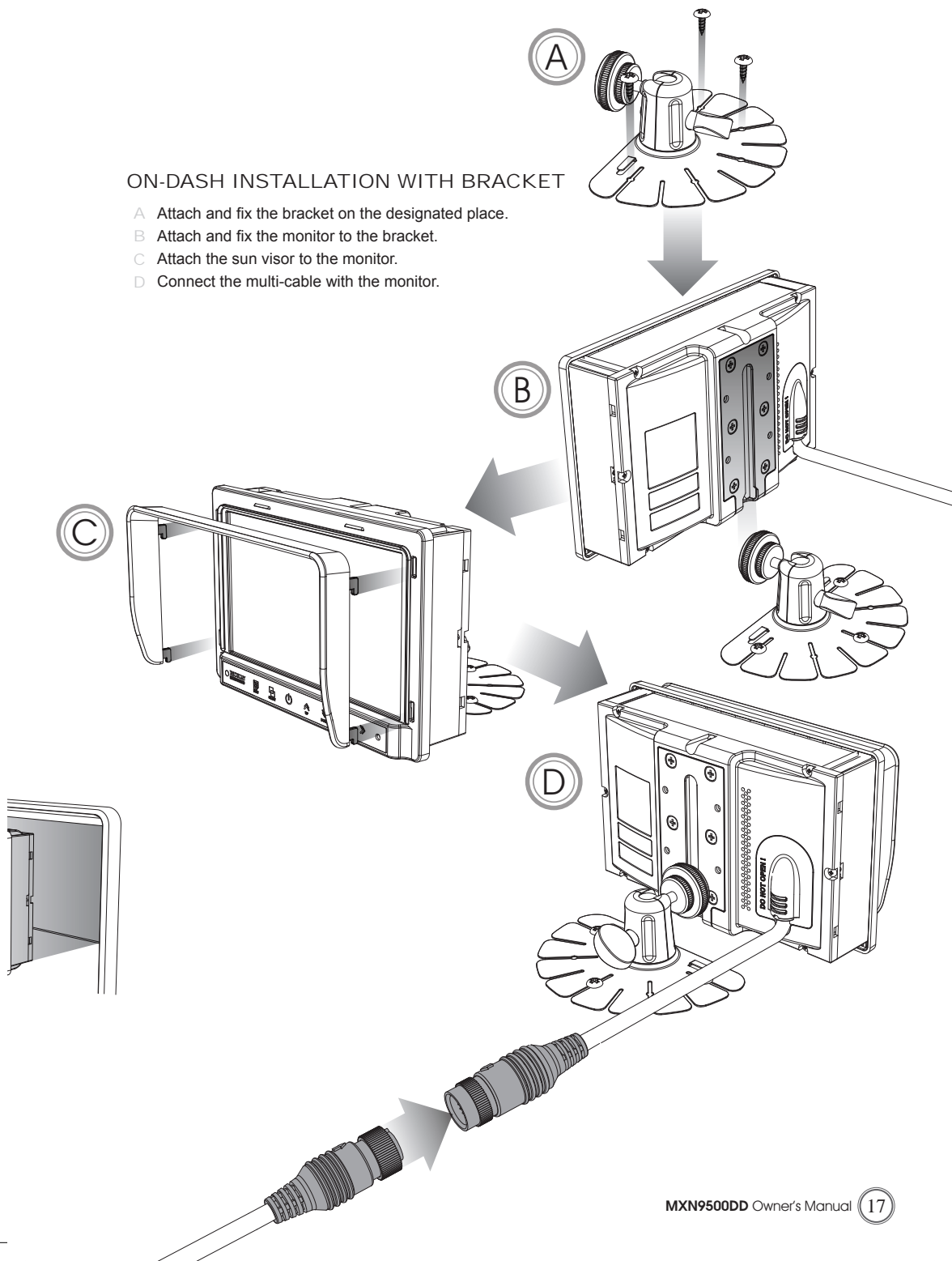
REMOVAL OF INSTALLED MONITOR

- A Remove the sun visor from the installed monitor.
- B Insert the removers in the holes in the installed monitor.
- C Push the removers to withdraw the installed monitor from the dashboard (a, b).



ON-DASH INSTALLATION WITH BRACKET

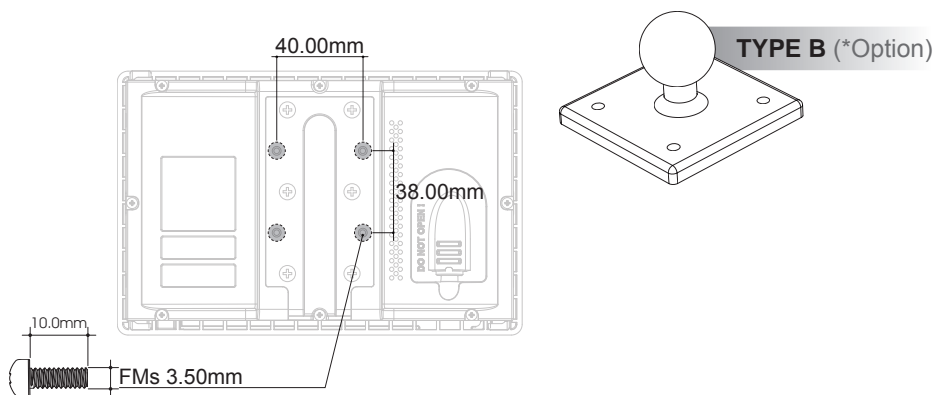
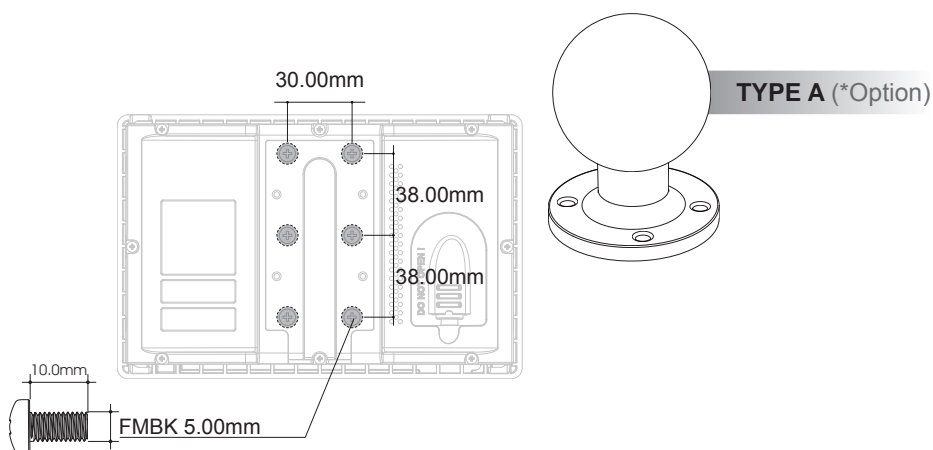
- A Attach and fix the bracket on the designated place.
- B Attach and fix the monitor to the bracket.
- C Attach the sun visor to the monitor.
- D Connect the multi-cable with the monitor.



INSTALLATION

INSTALLATION OF HEAVY DUTY MOUNTING BRACKETS

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



SPECIFICATIONS

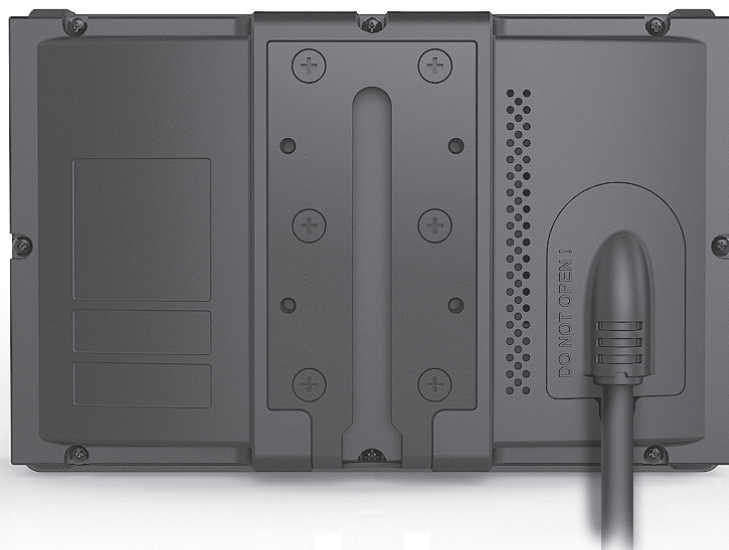


ITEM	SPECIFICATIONS
LCD SCREEN SIZE	7" Wide Diagonal
DIMENSIONS	188.07(W) × 123.57(H) × 71.33(D)mm
DISPLAY DIMENSIONS	154.08 × 85.92mm
POWER INPUT	DC 12V ~ 30V
POWER CONSUMPTION	15 Watt Max.
VIDEO SYSTEM	NTSC / PAL
SYNC. SYSTEM	Internal
BRIGHTNESS	400 cd/m ²
DISPLAY RESOLUTION	800 × 480 pixel
VIEWING ANGLES	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 1/2/3/4 · Split · Triple · Quad · CAM Trigger 1/2/3/4 · Speedswitch · Auto Power · Distance marker · Auto Picture Scan · Dimmer · Language · Reset.
SUPPLIED ACCESSORIES	Bracket-1 pce / Screw Kit-1set / Manual / Sun Shield-1 pce / Multi- cable-1 set / Remover-1 set
WEIGHT	± 610g (excluding bracket)

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