

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

7" DIGITAL TFT LCD ALL ROUND VISION MONITOR



Model: MXN-P7D

Design and specifications are subject to change without notice.

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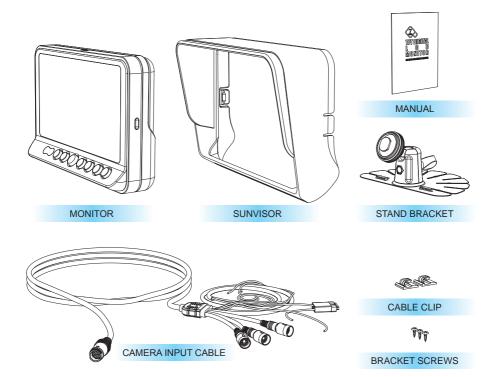
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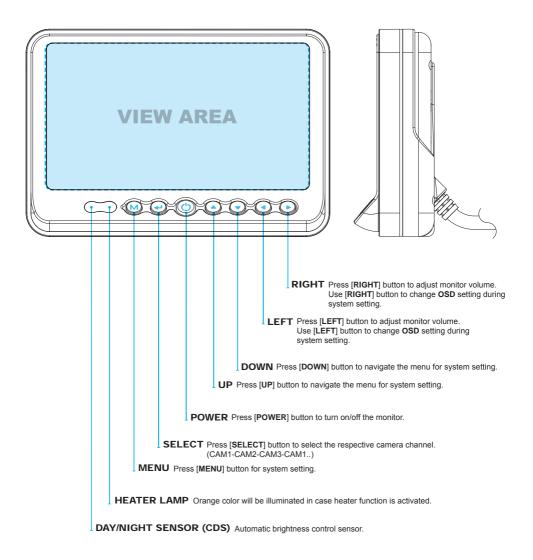


PACKAGE CONTENTS



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







SYSTEM SETTING

FUN	CTION
DIMMER	AUTO/OFF
NIGHT BRIGHT	50
LANGUAGE	ENGLISH/
AUTO POWER	AUTO/ON/OFF
MONITOR HEATER	ON/OFF
RESET	>
SYSTEM INFO.	VER 1.0
$\square \bigcirc \bigcirc \bigcirc \bigcirc$	0:00:00

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 FON** 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.

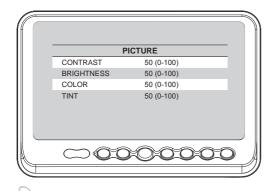
RESET

Press >> button to go the factory default setting.

SYSTEM INFO.

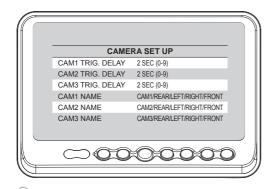
Refers to system information of the monitor.





PICTURE

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



CAMERA SET UP

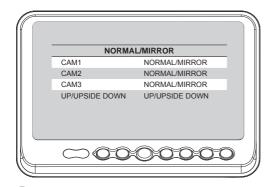
TRIG. DELAY

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.





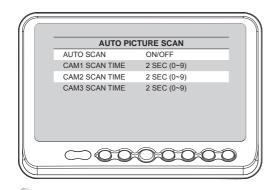
NORMAL/MIRROR

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.

	AUDIO
CAM 1 AUDIO	ON/OFF
CAM 2 AUDIO	ON/OFF
CAM 3 AUDIO	ON/OFF
CAM 4 AUDIO	ON/OFF
AUX AUDIO	ON/OFF
SPLIT	ON/OFF
TRIPLE	ON/OFF
QUAD	ON/OFF
-	0000
WOR	RRO

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).

TRIG	GER AUDIO
TRIG 1 AUDIO	ENTER
TRIG 2 AUDIO	ENTER
TRIG 3 AUDIO	ENTER
TRIG 4 AUDIO	ENTER
SP SW AUDIO	ENTER
$-\overline{\sigma}$	2000

TRIGGER AUDIO

Audio MUTE Mode in Trigger mode.

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

	TRIG1 AUDIO
AUDIO	ON/OFF
VOLUME	50
00	00000

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.



CAMERA	TRIGGER
TRIGGER 1	CAM1/CAM2/CAM3
TRIGGER 2	CAM2/CAM3/CAM1
TRIGGER 3	CAM3/CAM1/CAM2
CAM1 DIST. MARKER	MARKER ON/OFF
SPEED SWITCH	ON/OFF
FREQUENCY	67 Hz
UNDER FREQ. CAM	CAM3/CAM1/CAM2
OVER FREQUENCY	DISPLAY ON/OFF
OVER FREQ. CAM	CAM1/CAM2/CAM3
\Box	0000

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

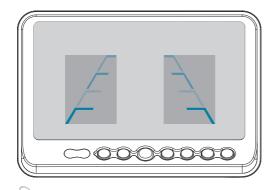
The orange wire needs to be connected with the vehicle's tacho signal and via MENU the SPEED SWITCH needs to be selected ON.

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:_I(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 **FOVER FREQUENCY DISPLAY: ON_and user needs to select FOVER FREQUENCY CH:**

In case of TRIGGER activation during <code>"SPEED SWITCH ON_</code> mode, then TRIGGERS 1~ 3 will overrule <code>"SPEED SWITCH_</code> function.





DISTANCE MARKER ADJUST

User can adjust location of distance marker.

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

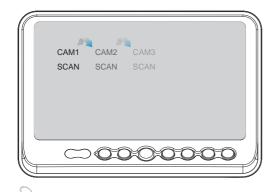
When color of distance markers is seen as RED color, user can adjust the lines UP/DOWN or LEFT/RIGHT.

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**.

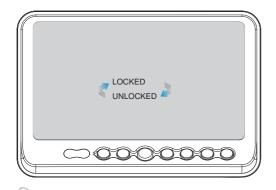
When right color of distance marker is seen as **RED** color, right line of distance marker can be adjusted **LEFT/RIGHT**.

SYSTEM SETTING



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

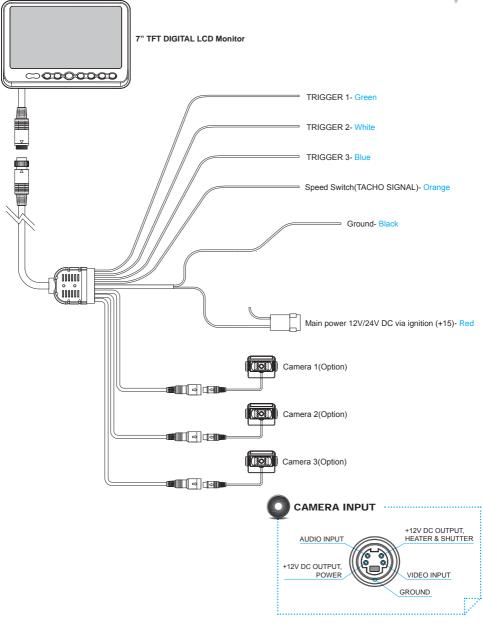
At **Power-ON** mode, hold [**DOWN**] button pressed for 10 seconds to set up **LOCK ON** function. When [**LOCKED**] is displayed on the screen, user can use [**POWER**, **SELECT**, **VOLUME**] buttons only and use can do setting for **PICTURE** menu.

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.



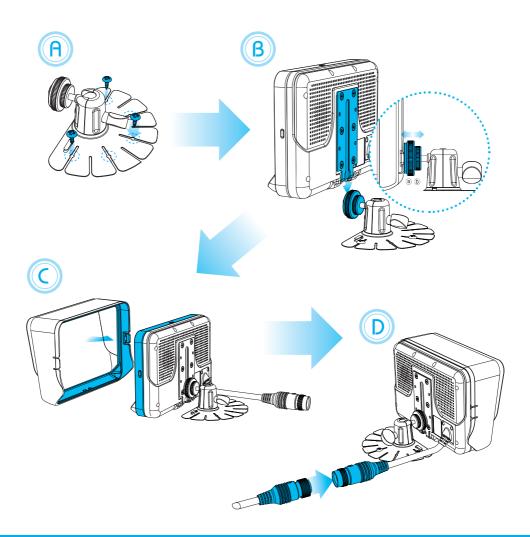
CONNECTION



INSTALLATION

MONITOR installation with **STAND BRACKET & SUNVISOR**

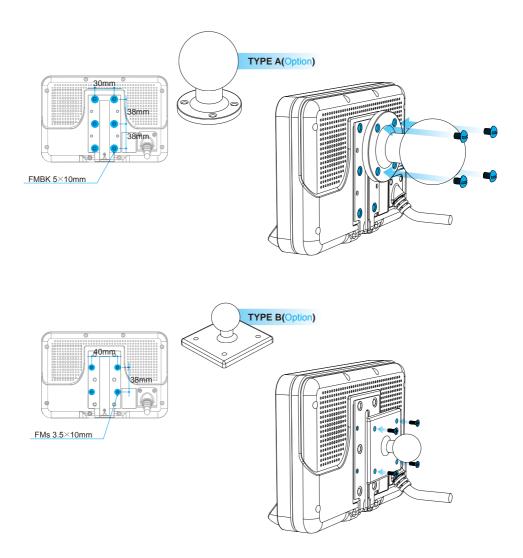
- A Remove a protection tape and attach STAND BRACKET into stand place, then fix it with the supplied screws.
- ^B Connect **STAND BRACKET** with monitor and adjust height/angle.
- ^C Connect SUNVISOR to the MONITOR.
- ^D Connect CAMERA INPUT CABLE to the MONITOR.





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 Diagonal	
DIMENSIONS	193(W) $ imes$ 132(H) $ imes$ 50.5(D)mm	
DISPLAY DIMENSIONS	154.08 $ imes$ 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 ²	
DISPLAY RESOLUTION	800 $ imes$ 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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