OWNER'S MANUAL

PLEASE READ CAREFULLY BEFORE
USING THIS PRODUCT.

MXN®

5" DIGITAL TFT LCD
ALL ROUND VISION MONITOR



Model: MXN-5DM

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

CAMERA SET UP 06

NORMAL/MIRROR 07

AUTO PICTURE SCAN 07

CAMERA TRIGGER 08

AUDIO 09

TRIGGER AUDIO 09

DISTANCE MARKER ADJUST 10

SCAN ON/OFF FUNCTION 11

LOCK ON/OFF FUNCTION 11

INSTALLATION 12

MONITOR INSTALLATION WITH STAND BRACKET & SUNVISOR 12

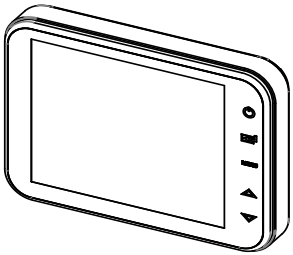
INSTALLATION OF HEAVY DUTY MOUNTING BRACKETS 13

CONNECTION 14

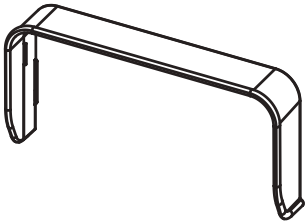
CAMERA INPUT 14

SPECIFICATION 15

▣ PACKAGE CONTENTS



MONITOR



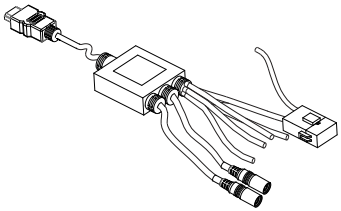
SUNVISOR



MANUAL



STAND BRACKET



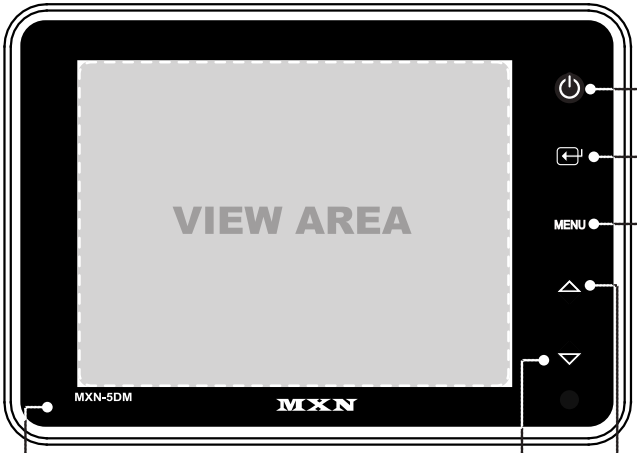
CAMERA INPUT CABLE



BRACKET SCREWS

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

▣ OPERATION



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

SELECT Press [**SELECT**] button to select the respective camera channel. (CAM1-CAM2-CAM1...) Press [**SELECT**] button to change **OSD** setting during system setting.

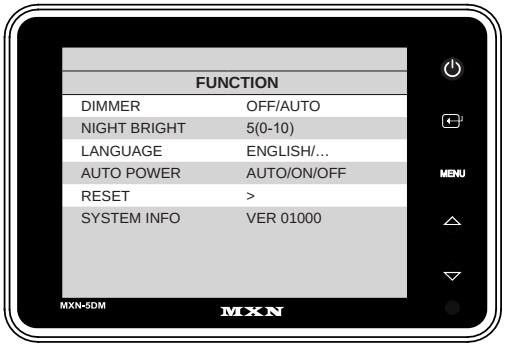
MENU Press [**MENU**] button for system setting.

UP Press [**UP**] button to navigate the menu for system setting.

DOWN Press [**DOWN**] button to navigate the menu for system setting.

DAY/NIGHT SENSOR (Photo T.R) Automatic brightness control sensor.

■ SYSTEM SETTING



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**.

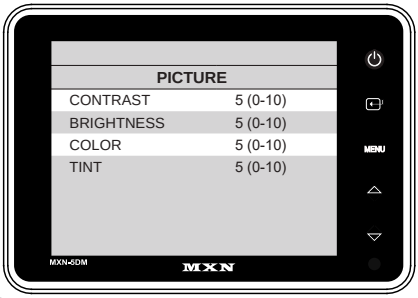
AUTO POWER
Select monitor activation function as below.

[AUTO] Monitor keeps the last setting in memory.
[ON] Monitor starts up 『**Power-ON**』 mode automatically.
[OFF] Monitor starts up 『**Stand-By**』 mode automatically.

RESET
Press ≫ button to go the factory default setting.

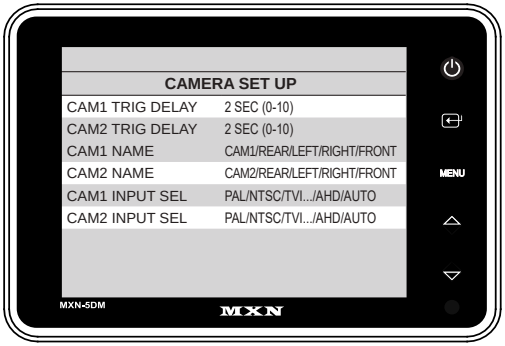
SYSTEM INFO.
Refers to system information of the monitor.

■ SYSTEM SETTING



PICTURE

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



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/REAR/LEFT/RIGHT/FRONT**.

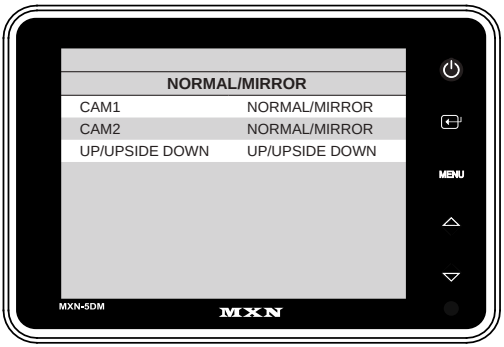
CAMERA VIDEO INPUT SELECTION
Each camera, **CAM1, 2** is compatible with **CVBS(NTSC/PAL)**, **AHD**, **HD-TVI** video format. Select the required video format.

TV SYSTEM [**NTSC**]: Below video format can be selected.
[T1080P60 / T1080P30 / T720P60 / T720P30 / A1080P30 / A720P30 / NTSC]

TV SYSTEM [**PAL**]: Below video format can be selected.
[T1080P50 / T1080P25 / T720P50 / T720P25 / A1080P25 / A720P25 / PAL]

"T" : **HD-TVI** video format
"A" : **AHD** video format

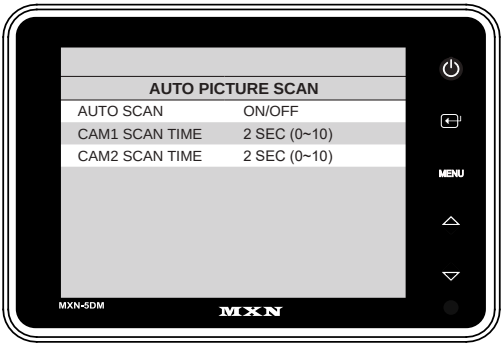
REMARK
If [**AUTO**] is selected, the video format of the connected camera is detected automatically.



NORMAL/MIRROR

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

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



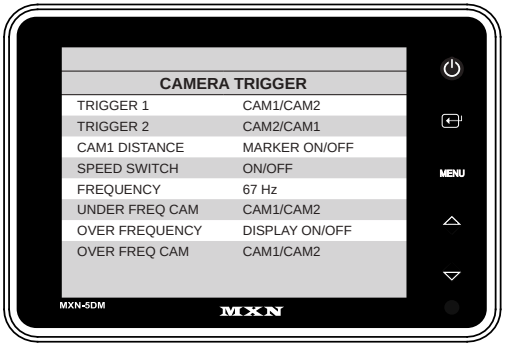
AUTO PICTURE SCAN

Each scanning time of CAM1/CAM2 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.

▣ SYSTEM SETTING



CAMERA TRIGGER

TRIGGER 1/2 (Trigger source selection)
Select the required trigger source at CAM1/CAM2.

REMARK
TRIGGER PRIORITY: TRIGGER 1 > TRIGGER 2

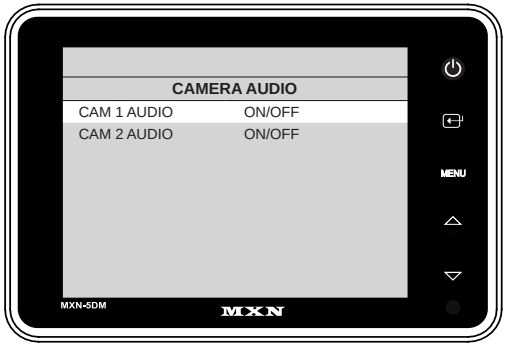
CAM1 DISTANCE
Select **ON** to have distance marker (parking line) for **CAM1**.
Distance marker is displayed as soon as **TRIGGER 1** signal is activated.

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**:』(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**:』

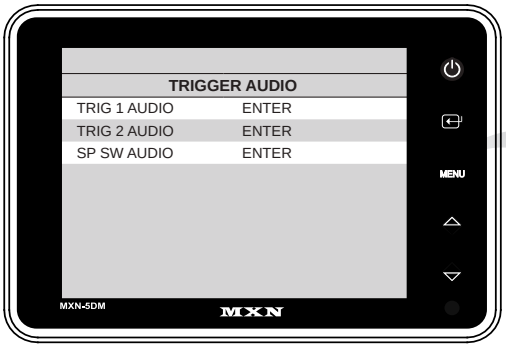
In case of **TRIGGER** activation during 『**SPEED SWITCH ON**』 mode, then **TRIGGERS** 1~2 will overrule 『**SPEED SWITCH**』 function.



CAMERA AUDIO

Audio **MUTE** Mode in normal mode.

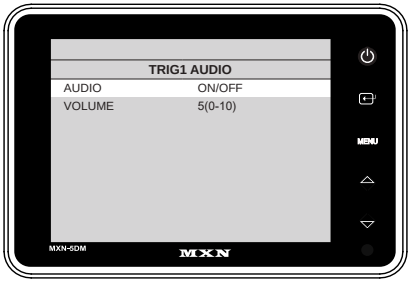
When the mode is [**ON**], audio will be on (activated)
When the mode is [**OFF**], audio will be off (mute).



TRIGGER AUDIO

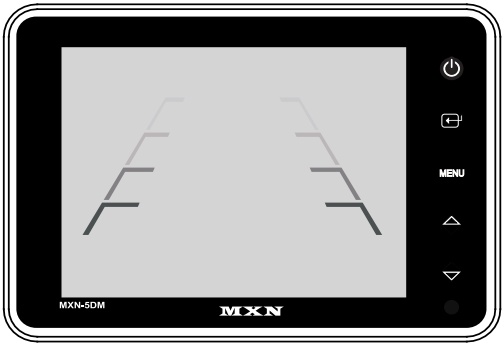
Audio **MUTE** Mode in Trigger mode.

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



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.

▣ SYSTEM SETTING

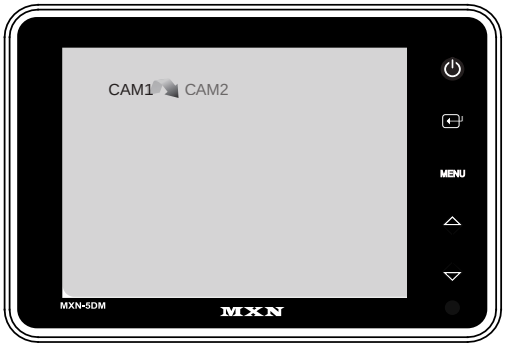


DISTANCE MARKER ADJUST

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 [**SELECT**].

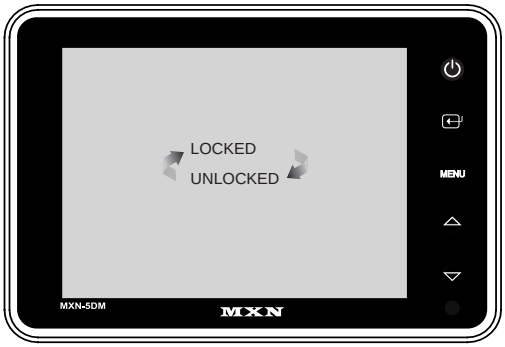
When both color of distance markers are seen as **RED** color, both lines can be adjusted [**SELECT**].
When left color of distance marker is seen as **RED** color, left line of distance marker can be adjusted [**SELECT**].
When right color of distance marker is seen as **RED** color, right line of distance marker can be adjusted [**SELECT**].



SCAN ON/OFF FUNCTION

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

Each scanning time of **CAM1**/**CAM2** can be selected.



LOCK ON/OFF FUNCTION

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

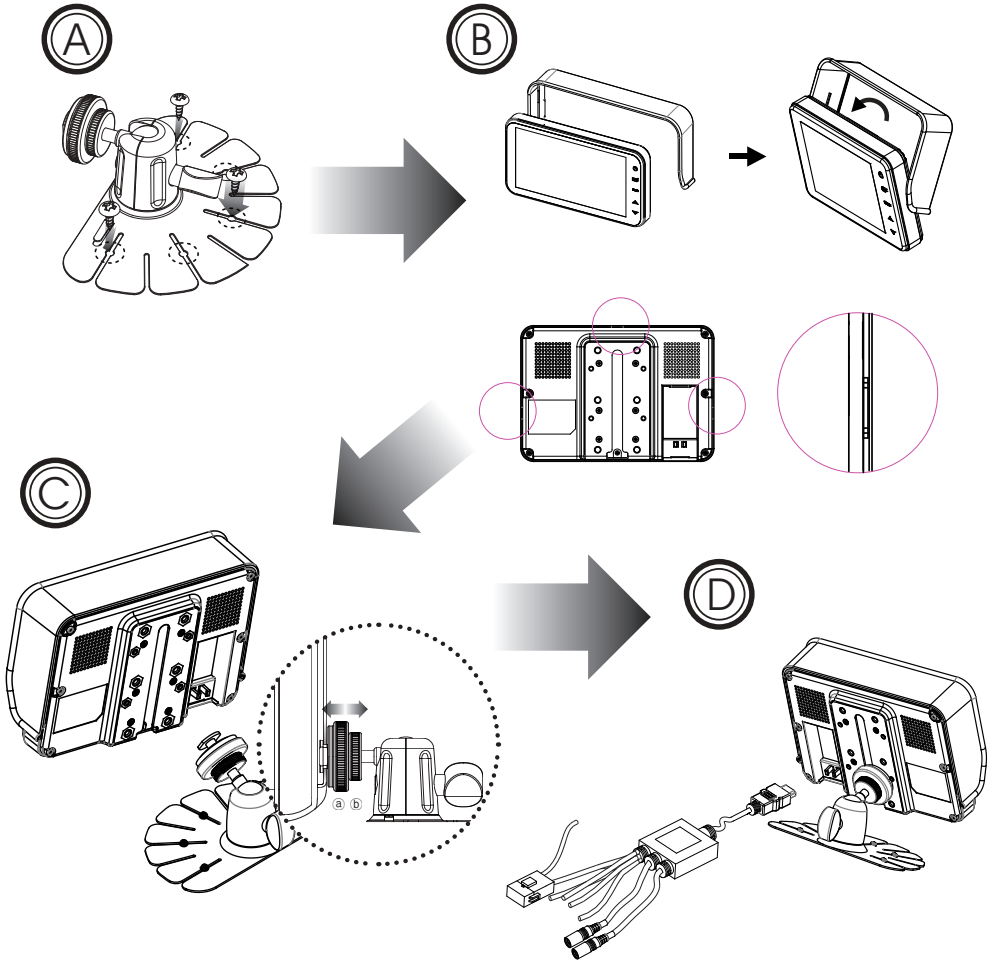
LOCK ON mode
At **Power-ON** mode, hold [**DOWN**] button pressed for 10 seconds to set up **LOCK ON** function.
When [**LOCKED**] is displayed on the screen, user can use [**POWER, SELECT, VOLUME**] buttons only and use can do setting for **PICTURE** menu.

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.

▣ INSTALLATION

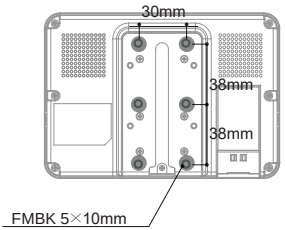
MONITOR INSTALLATION WITH STAND BRACKET & SUNVISOR

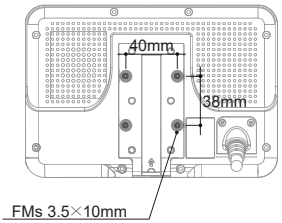
A Remove a protection tape and attach **STAND BRACKET** into stand place, then fix it with the supplied screws.
B Connect **SUNVISOR** to the **MONITOR**.
C Connect **STAND BRACKET** with monitor and adjust height/angle.
D Connect **CAMERA INPUT CABLE** to the **MONITOR**.

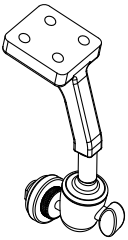


INSTALLATION OF ROOF MOUNT BRACKETS

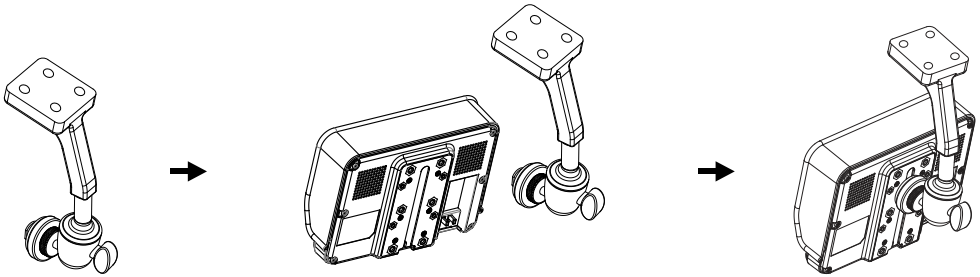
MONITOR can be connected with different type of **ROOF MOUNT BRACKETS**.
Please check the compatibility in advance, then please follow installation as described below.







TYPE A(Option**)**



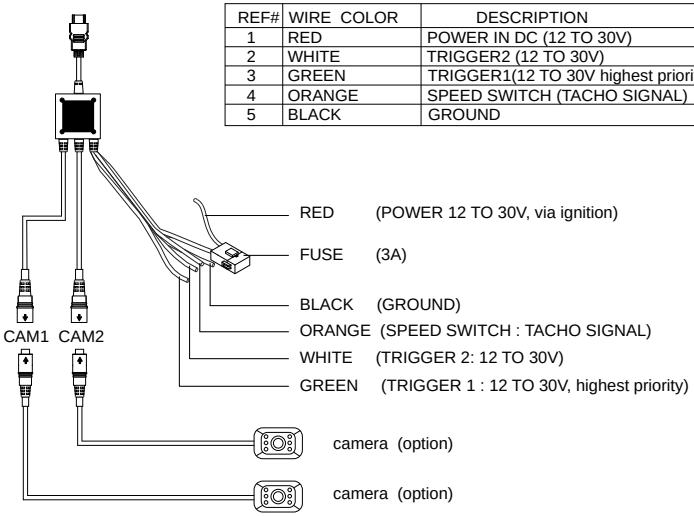
▣ CONNECTION

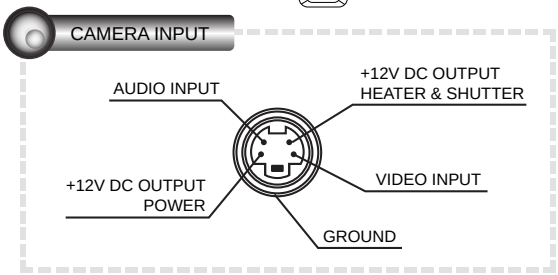


5" TFT DIGITAL LCD Monitor

POWER/TRIGGER WIRE FUNCTIONS

REF#	WIRE COLOR	DESCRIPTION
1	RED	POWER IN DC (12 TO 30V)
2	WHITE	TRIGGER2 (12 TO 30V)
3	GREEN	TRIGGER1(12 TO 30V highest priority)
4	ORANGE	SPEED SWITCH (TACHO SIGNAL)
5	BLACK	GROUND





▣ SPECIFICATION



ITEM	SPECIFICATION
LCD SCREEN SIZE	5" Diagonal
DIMENSIONS	149(W) × 104(H)× 29(D)mm
DISPLAY DIMENSIONS	101.57 × 76.18mm
POWER INPUT	DC 12 to 30 Free Input
POWER CONSUMPTION	12 Watt Max.
VIDEO SYSTEM	CVBS (NTSC/PAL), AHD 720P/1080P, HD-TVI 720P/1080P
SYNC. SYSTEM	Internal
BRIGHTNESS	250 cd/m^2
DISPLAY RESOLUTION	640 × 480 pixel
VIEWING ANGLE	Top: 50. Bottom: 70. Left: 70. Right: 70.
COLOR CONFIGURATION	RGB Stripe
DIMMER	Automatic / Manual
SPEAKER IMPEDANCE	8Ω. 0.5 Watt Max.
OPERATING TEMP.	-20°C to + 70°C
STORAGE TEMP.	-30˚C to + 80˚C
IMPACT RATING	6G
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 · CAM Trigger 1/2 · Speedswitch · Auto Power · Distance marker · Auto Picture Scan · Dimmer · Language · Direction · Reset · CAM INPUT SEL 1/2
SUPPLIED ACCESSORY	Die-Case Mounting Bracket 1 pcs / Screw Kit 1 set / Operating Manual / Sun Shield 1 pcs / Power Cable 1 set
WEIGHT	±500g(Including Bracket & Sunvisor)

OWNER'S MANUAL

PLEASE READ CAREFULLY BEFORE
USING THIS PRODUCT.

MXN®

5" DIGITAL TFT LCD
ALL ROUND VISION MONITOR



Model: MXN-5DM

Design and specifications are subject to change without notice.