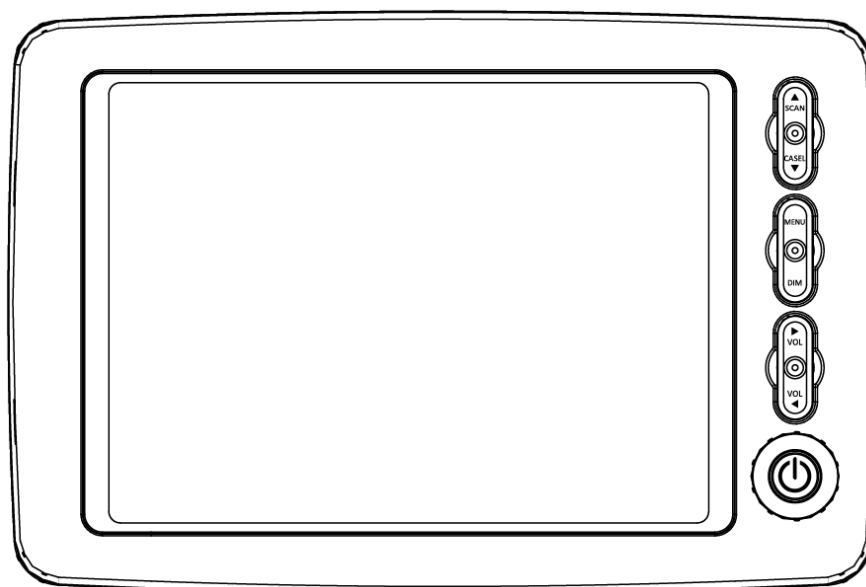


USER'S GUIDE MANUAL

5" Digital TFT LCD Monitor

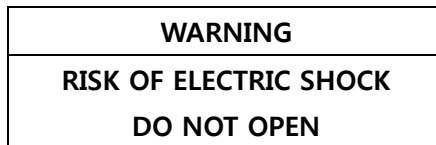
Track-Vision Heavy Duty Waterproof Monitor **TRV10200**

HS-5M



I. Contents / Warning

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To reduce the risk of electric shock, do not remove the cover (or back).
No user serviceable part inside. Refer servicing to qualified service personnel.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of un-insulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

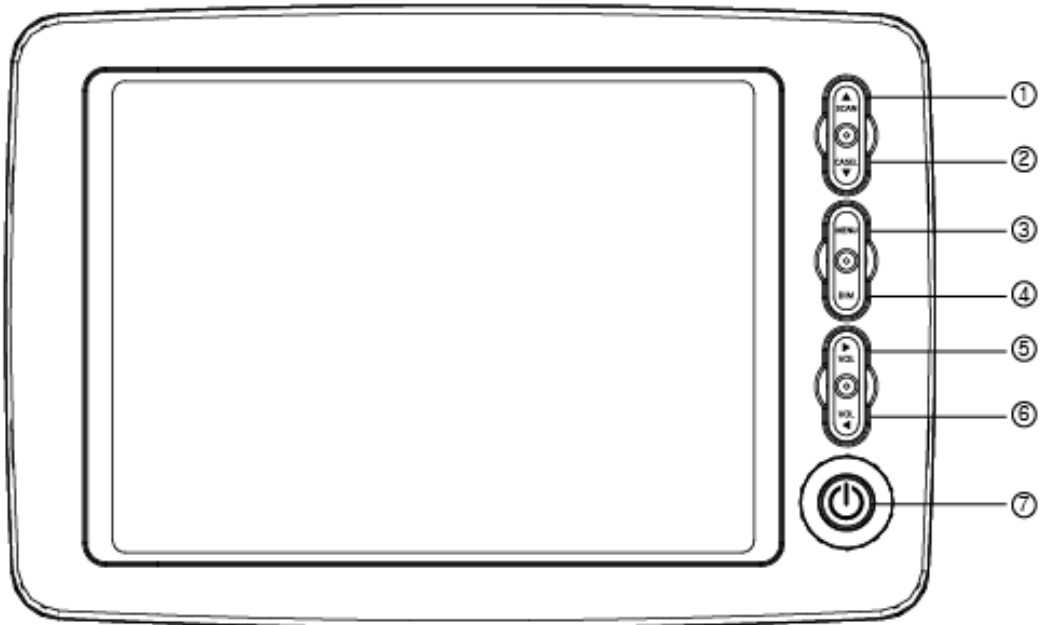


This exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Design and Specification are subject to change without notice.

II. Front Feature & Accessory

◆ Front Feature



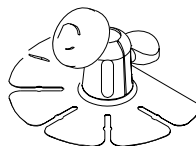
- ① SCAN (UP) ② CA. SEL (DOWN) ③ MENU ④ Dimmer ⑤ VOLUME DOWN
⑦ VOLUME UP ⑧ POWER

◆ Accessory

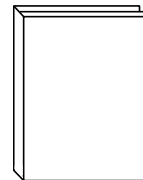
Camera Input Cable



Fan Type Stand



User's Guide



III. Operation

1. Menu Control Key

1) Power Key

- The Power LED indicates the RED Color at the Power OFF (Stand-By Mode).
- The Power LED indicates the GREEN Color at the Power ON.
- The LAST MOMORIZED CHANNEL displays when the POWER turns ON (Factory Default).

2) Menu Key

- When pressing the MENU Key at the POWER ON Mode, the OSD appears and the selected letters on OSD is classified in a different color.
- When pressing the MENU Key repeatedly in OSD Mode, the monitor displays in order as ;
FUNCTION → PICTURE→CAMERA→CAMERA→Clear of OSD.

3) Dimmer Key

- The Monitor Brightness is manually adjustable by pressing "DIM" button depending on the surrounding conditions.

4) △ SCAN Key

- When pressing △ SCAN Key on displaying image, displays "Camera 1 image -> Camera 2 image -> Camera image 3" repeatedly until pressing △ SCAN Key again.
- When pressing △ SCAN Key on the MENU, the cursor moves up for selecting an option.

5) CA. SEL▽ Key

- When pressing CA. SEL ▽ key repeatedly on displaying image, the display is changed CA1 -> CA2 -> CA3 in order.
- When pressing CA. SEL ▽ Key on the MENU, the cursor moves down for selecting an option.

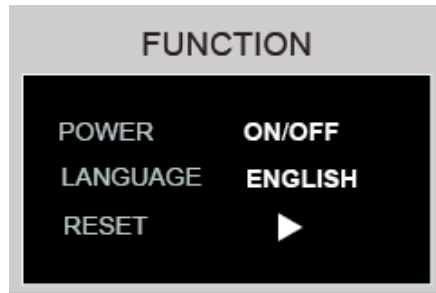
6) Volume Up/Down Key

- To increase the Volume, press "+ Volume" Key.
- To decrease the Volume, press "Volume - "Key.
- Adjustable Volume Range : 0 - 100 (Factory Default : 50)



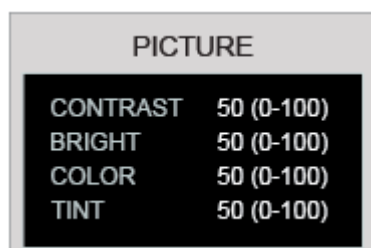
2. How to set up the MENU Function

1) Function



- POWER ON/OFF
 - ON: When ACC is On, the display is On automatically.
 - OFF: The display is On by pressing power button manually.
- Language : 7 Language (English/German/Italian/French/Spanish/Finnish)
 - Locate the cursor at Language by SCAN and/or CA.SEL key.
 - Select the desired language by Volume -/+ key.
 - Factory default: English.
- RESET
 - All set values are initialized to factory defaults.
 - Locate the cursor on the RESET by SCAN and/or CA.SEL key.
 - Select Volume + key.
 - The monitor turns off.

2) Picture



- CONTRAST
 - Adjust the Contrast by the Volume -/+ Key.
 - *Factory Default: 50
- BRIGHTNESS
 - Press the SCAN and/or the CA.SEL Key, adjust the Brightness by the Volume -/+ Keys.
 - *Factory Default: 50

- COLOR
 - Press the SCAN and/or CA.SEL Key, adjust the Color by the Volume -/+ Key.
 - *Factory Default: 50
- TINT
 - Press the SCAN and/or CA.SEL Key, adjust the Brightness by the Volume -/+ Key.
 - *Factory Default: 50

3) Camera

CAMERA		
CA1	SCAN	0 ~ 9
CA2	SCAN	0 ~ 9
CA3	SCAN	0 ~ 9
CA1	TRIG	0 ~ 9
CA2	TRIG	0 ~ 9
CA3	TRIG	0 ~ 9

- CA1 SCAN
 - Move to the camera 1 by the SCAN and/or CA.SEL Key.
 - Adjust the displaying time of the camera 1 while scanning camera and it is set up from 0 to 9 seconds by Volume -/+ Key.
 - * Factory Default: 3 second.
- CA2 SCAN
 - Move to the camera 2 by the SCAN and/or CA.SEL Key.
 - Adjust the displaying time of the camera 2 while scanning camera and it is set up from 0 to 9 seconds by Volume -/+ Key.
 - * Factory Default: 3 seconds
- CA3 SCAN
 - Move to the camera 3 by the SCAN and/or CA.SEL Key.
 - Adjust the displaying time of the camera 3 while scanning camera and it is set up from 0 to 9 seconds by Volume -/+ Key.
 - * Factory Default: 3 seconds

*If the value is set at "0", the image of the camera is not displayed while scanning the channels (Skipping the channel).

- CA1 TRIGGER
 - Press the SCAN and/or CA.SEL Key, adjust the displaying time of the camera 1 after the trigger is disengaged and it is set up from 0 to 9 seconds by Volume -/+ Key
 - . * Factory Default: 3 seconds

– Press the SCAN and/or CA.SEL Key, adjust the displaying time of the camera 2 after the trigger is disengaged and it is set up from 0 to 9 seconds from 0 to 9 seconds by Volume -/+ Keys.

*Factory Default : 3 seconds

- CA3 TRIGGER

– Press the SCAN and/or CA.SEL Key, adjust the displaying time of the camera 3 after the trigger is disengaged and it is set up from 0 to 9 seconds from 0 to 9 seconds by Volume -/+ Keys.

*Factory Default : 3 seconds

*If the value is set at "0", the display is promptly changed to the image of the camera displaying prior to the trigger on after the trigger is disengaged.

4) Camera

CAMERA	
CAM1 N/M	NORMAL/MIRROR
CAM2 N/M	NORMAL/MIRROR
CAM3 N/M	NORMAL/MIRROR
CAM1 DIST	ON/OFF

- CAMERA 1

– Press the SCAN and/or CA.SEL Key, select the Normal or Mirror Image of Camera 1 by the Volume -/+ Key.

- NOR : Normal Image (Factory Default)

MIR : Mirror Image

- CAMERA 2

– Press the SCAN and/or CA.SEL Key, select the Normal or Mirror Image of Camera 2 by the Volume -/+ Key.

– Normal Image (Factory Default)

- CAMERA 3

– Press the SCAN and/or CA.SEL Key, select the Normal or Mirror Image of Camera 3 by the Volume -/+ Key.

– Normal Image (Factory Default)

- Adjustable Guide Line (Parking Guide Line)

- Locate the cursor at DISTANCE by the SCAN and/or CA.SEL Key.

- Select ON or OFF by the VOLUME -/+ Key.

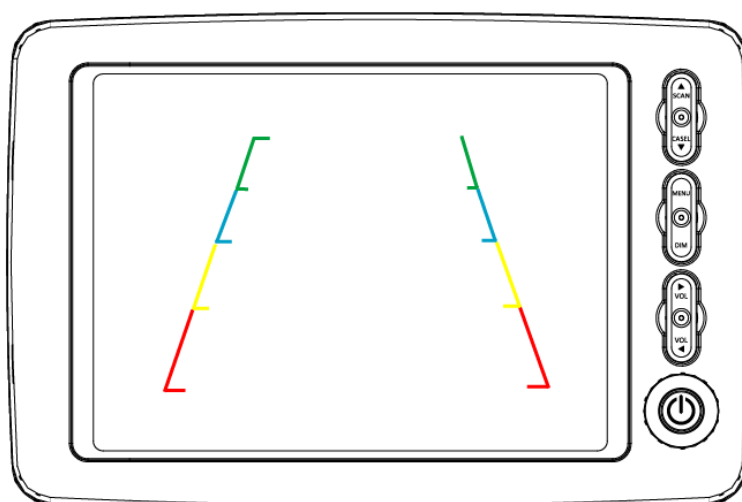
- ON : Displayed the Adjustable Guide Line (Factory Default)

- OFF : No displayed the Guide Line.

– When the Camera 1 turns "ON" by the Trigger ("R" gear) in the Standby Mode, displays the Guide Line for the adjustment.

*How to adjust the Parking Guide Line

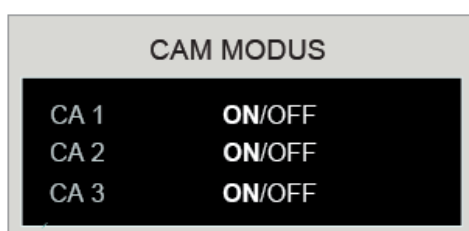
User can adjust the Guide Line in accordance with the Vehicle's Width and distance to the obstacle as follows.



- Press MENU button.
- Go to end of the last menu(CAM MODUS) and then press menu button once again.
- Parking Line(Reverse Line) will be displayed as the above.
- Select a desired line to adjust; Left, Right or Up & down by the SCAN/CA.SEL key.
The Selected line will be turned into RED.
- Adjust the Parking Guide Line to the left, the Right or Up & down by the – VOLUME+ key.

* It is only applicable to adjust the parking line when CAMERA 1 is selected.

5) Camera



- CAM MODUS
 - Move to the option screen of the CAM / MODUS by pressing the MENU key.
 - Locate the cursor at a desired camera by the SCAN and/or CA.SEL Key.
 - Select ON or OFF by the Volume -/+ Key.

*The Camera set at "ON" is not scanned when a user tries to scan all cameras one by one by pressing "CA.SEL ▾" key. It is useful to skip the channel not to connect with a camera.

– Press the SCAN and/or CA.SEL Key, adjust the displaying time of the camera 2 after the trigger is disengaged and it is set up from 0 to 9 seconds from 0 to 9 seconds by Volume -/+ Keys.

*Factory Default : 3 seconds

- CA3 TRIGGER

– Press the SCAN and/or CA.SEL Key, adjust the displaying time of the camera 3 after the trigger is disengaged and it is set up from 0 to 9 seconds from 0 to 9 seconds by Volume -/+ Keys.

*Factory Default : 3 seconds

*If the value is set at "0", the display is promptly changed to the image of the camera displaying prior to the trigger on after the trigger is disengaged.

4) Camera

CAMERA	
CAM1 N/M	NORMAL/MIRROR
CAM2 N/M	NORMAL/MIRROR
CAM3 N/M	NORMAL/MIRROR
CAM1 DIST	ON/OFF

- CAMERA 1

– Press the SCAN and/or CA.SEL Key, select the Normal or Mirror Image of Camera 1 by the Volume -/+ Key.

- NOR : Normal Image (Factory Default)

MIR : Mirror Image

- CAMERA 2

– Press the SCAN and/or CA.SEL Key, select the Normal or Mirror Image of Camera 2 by the Volume -/+ Key.

– Normal Image (Factory Default)

- CAMERA 3

– Press the SCAN and/or CA.SEL Key, select the Normal or Mirror Image of Camera 3 by the Volume -/+ Key.

– Normal Image (Factory Default)

- Adjustable Guide Line (Parking Guide Line)

- Locate the cursor at DISTANCE by the SCAN and/or CA.SEL Key.

- Select ON or OFF by the VOLUME -/+ Key.

- ON : Displayed the Adjustable Guide Line (Factory Default)

- OFF : No displayed the Guide Line.

– When the Camera 1 turns "ON" by the Trigger ("R" gear) in the Standby Mode, displays the Guide Line for the adjustment.

VI. Technical Specification

Monitor	Specification	Display Panel	5" Digital TFT LCD Panel
		Resolution	640 x RGB x 480 pixels
		Brightness	250cd/m ²
		Screen mode	4 : 3 Wide Screen
		View Angle	Top:50° Bottom:70° Left:70° Right:70°
		Rear View Image	Automatic Screen On(Signal from "R")
		Housing	Aluminum Die-casting
		Display Mode	Normal/Mirror Image with Adjustable Guide Line
		Camera Input	1Ch/2Ch/3Ch
		Audio Input	1Ch/2Ch/3Ch
		Power Source	DC 10V – 32V (Free Voltage)
		Operating Temp.	-20°C - +70°C (-4°F - 158°F)
		Storage Temp.	-30°C - +85°C (-22°F - 185°F)
		Audio Output	Built-in Speaker(1W)
	Waterproof	IP 68	
Dimension	Weight	450g	
	Dimension	105(W) x 152(H) X 23(D) mm	
Accessory	Stand Bracket, Video Input Cable, Manual		