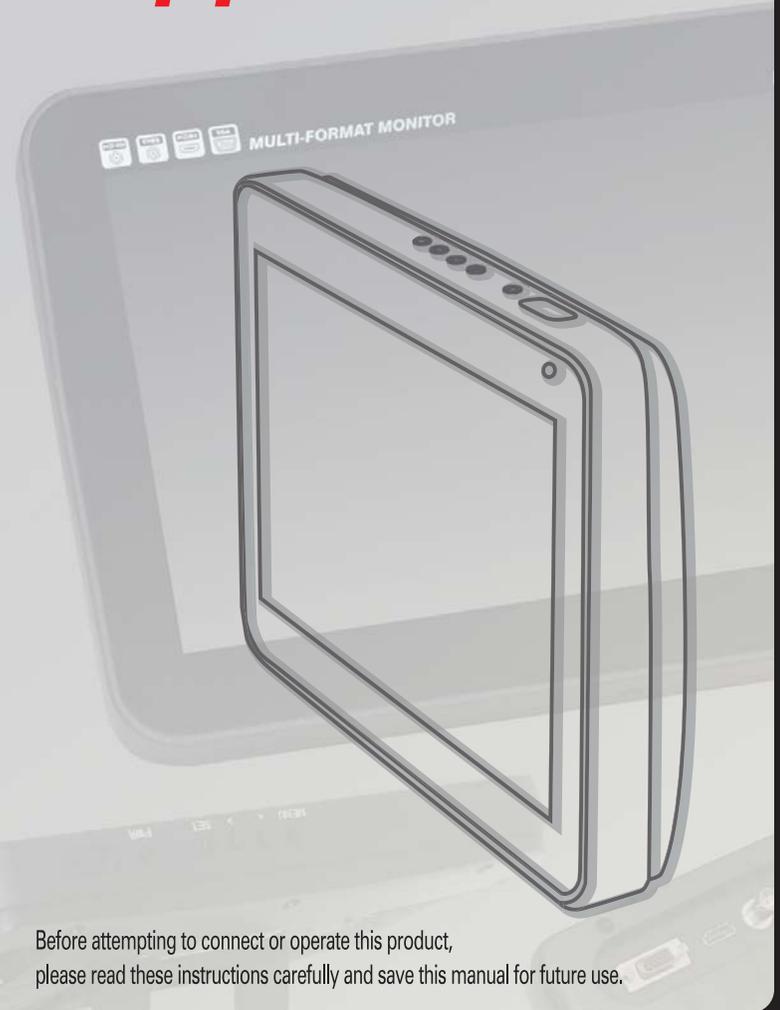


Multi-Format Input Monitor
Rapport-10HD



P/N : 388087406
PRINTED IN KOREA

Distributed by

Before attempting to connect or operate this product,
please read these instructions carefully and save this manual for future use.

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SAFETY INFORMATION

Precautions

Be sure to read through the "Safety Information" section before using this Rapport-10HD

This basic instruction manual is for users of the Rapport-10HD. Starting with an outline of this Rapport-10HD, the manual explains its operation, how it connects to other devices, how to use the menu buttons, and how it should be operated.

It is highly recommended, even for those who have handled similar devices, as well as for those using it for the first time, to read all the instructions thoroughly, especially the precautions, before using the Rapport-10HD.

If there are any questions which arise when using the Rapport-10HD or the unit is damaged, please contact the supplier of your Rapport-10HD.

Safety Information highlights and explains the precautions which should be taken, for the safety of users, when using the Rapport-10HD.

Battery Handling

- Avoid short circuits, as this will cause internal damage to the battery.
- The soft packaging can easily be damaged by contact with sharp surfaces or objects, take care when handling or storing.
- Do not bend the tabs as these are breakable.
- Avoid mechanical shocks to the battery.
- Do not immerse the battery in water.
- Only use the supplied battery charger or one with a safety guarantee.
- Stop charging immediately if the battery is overheating, emitting a burning smell, changed in colour or distorted.
- Keep away from static electronic fields while using, charging or when storing.

SAFETY INFORMATION

The following describes how to safely operate the Rapport-10HD.

Please read carefully "the precautions for use of this product" prior to using this device. Check the input and output ranges of any voltages being applied to all inputs and outputs of the device, and ensure their connections have been made properly so no abnormal load is placed on the operation of the device. If the measurement value is unknown when measuring a resistance, set the Rapport-10HD meter to its maximum value so that no abnormal load is placed upon the device.

The Rapport-10HD should only be used under the environmental conditions shown in the specification where temperature and humidity figures should be adhered to.

Temperature: : -10°C ~ 50°C
Relative Humidity: : 30% ~ 90%
DC input voltage : 12V ± 10%, more than 2.5A

Pay attention to the following precautions when using the Rapport-10HD

- Use only specified replacement fuses.
- Do not use the unit in damp, humid or gaseous environments.
- Be mindful not to shock or shake the unit while in use to avoid damage.
- Avoid areas with strong magnetic or electromotive fields, which can cause incorrect measurements.
- Remove the power plug from the outlet when there is a lightning storm.
- Be sure to use only the standard adapter that is specified in the specification sheet.
- Using any other adapter could cause fire, electrical shock, or damage to the product.
- Securely plug the power cord into the power receptacle. Insecure connection may cause fire.
- If any unusual smells or smoke come from the unit, stop using the product. In such case, immediately disconnect the power source and contact the service center. Continued use in such a condition may cause fire or electric shock.

PRODUCT INTRODUCTION

1. Summary

Suitable for HD CCTV monitor in limited space and field monitor as well.
10.05", 16:9 widescreen aspect ratio without the quality loss than comes from scaling, altering an image to fit on a different screen size
Superb connectivity with various surveillance equipments and peripherals with the HD-SDI, CVBS, VGA ports. And the HDMI port also gives uncompressed high quality video.
White LED backlight ensures natural colors from camera, DVR or others.
VESA standard 4 holes on the back allows placing in car window or mounting to a wall.
Dust protection optical bonding glass with AR/AG coating.
Li-ion Polymer battery with 5000mA capacity runs 4 to 6 hours with battery.
User-friendly GUI and intuitive and stylishly designed touch controls on the top of the sturdy aluminum case.
USB port prepared for firmware update in case debugging or performance enhancement.



Rapport-10HD

PRODUCT INTRODUCTION

1.1 Standard Items

Check the contents of your Rapport-10HD package against the standard checklist below :

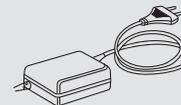
• Rapport-10HD



Rapport-10HD Main Test Unit

- Rapport-10HD
- Power Adapter (DC12V)
- IR Remote Controller
- User Manual

• Accessories



Power adaptor



IR Remote Controller



Manual

PRODUCT INTRODUCTION

1.2 Part name & Functions



1.2.1 Front

- ① LCD : Display the video on the screen.
- ② Infrared singal receiver : Receive infrared signal.
**Be careful not to be covered when use it.

1.2.2 Top side



- ① Power LED : It shown the power is on.
- ② Red LED : Red light is turned on when charging it.
Green LED : Green LED is on when the battery is fully charged.
- ③ PWR button : Power ON/OFF button.
- ④ SET button : Used to confirm selection in menu screens and set the picture ratio.
- ⑤ <, > button : Move and select menu.
- ⑥ MENU button : Go into the OSD menu.

PRODUCT INTRODUCTION

1.2.3 Back & side



- ① Brace : It braces the product.
- ② Power switch : ON/OFF the main power supply.
- ③ Phone jack : Receive Audio by earphones.
- ④ DC Power Jack : DC power input jack
- ⑤ USB : Connect USB with PC for update firmware.
- ⑥ HD-SDI : Input HD-SDI.
- ⑦ CVBS : Input CVBS .
- ⑧ HDMI : Input HDMI.
- ⑨ VGA : Input VGA .

PRODUCT INTRODUCTION

1.3 Product specifications

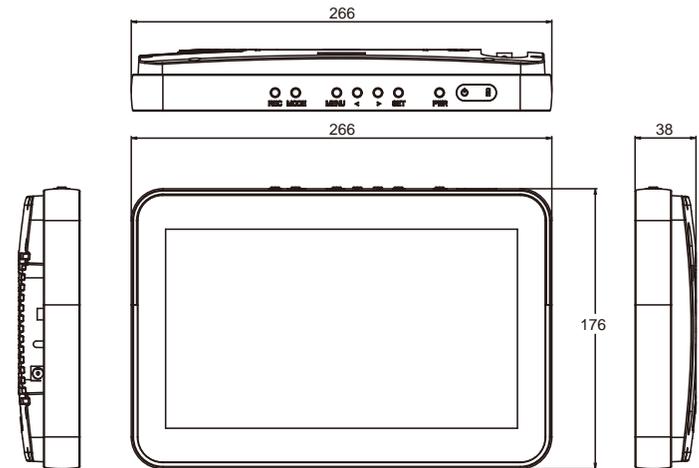
1.3.1 Electrical Specifications

Electronic characteristics	Input voltage	12V ± 15%, more than 2.5A	
	Battery	Li-ion Polymer Battery, built-in 5000mAh/7.4V	
		Charge	8hours (charge only)
			16hours (on working)
Operation	4~5 hours		
VIDEO	HD-SDI	1080p 24,25,30	
		1080i 50, 60	
		720p 50,60	
	CVBS	NTSC / PAL	
	HDMI	1080p 24,25,30	
		1080i 50, 60	
		720p 50,60	
		480i, 576p	
		576i, 576p	
	VGA	1280x1024 60,75Hz	
		1280x960 60,85Hz	
		1152x864 75Hz	
		1024x768 60,70,75,85Hz	
800x600 60,72,75,85Hz			
LCD	LCD	10.05", 1280x800 RGB.	
AUDIO	Speaker	8 ohms 0.5W	
	Phone jack	3.5inch Stereo	
Size	266(W) x 176(H) x 38(D)		

PRODUCT INTRODUCTION

1.3.2 Dimension

Unit : mm



* 266(W) x 176(H) x 38(D)

FUNCTIONS

1.4 Battery charging

1.4.1 Battery charging by DC power

This product can be charged by using DC adaptor which is provided in the box and connect it to the DC jack of the product. If the product fully charged, the LED is changed to green color. After fully charged it, disconnect the DC jack from the adaptor.

1.4.2 LED Indicator

Check the battery color as below picture.



Item	RED LED	GREEN LED
Discharged	OFF	OFF
Charging	ON	OFF
Fully charged	OFF	ON
Low battery	Flicker(1 Hz)	OFF

- When Red LED flicker, reload battery or recharge battery.
- Use the manufacture provided adaptor only (12V/2.5A).
If you use low voltage terminal, it may cause malfunction and explosion or shorten the product's life
- Battery is consumable item with 6 months warranty after purchase.

FUNCTIONS

2 Basic functions

2.1 Power On / Off

Switch on the power button in the side of product and press "PWR" button for 3 seconds to turn on the power.



※ The discharge starts when the Main Switch is turned on and it start to consume power from the battery. Therefore, when the product is not being used for a period of time, make sure the main switch is turned off.

2.2 Starting and Finish the product

2.2.1 Starting

When power on, below screen is shown on the monitor.
The model name and firmware version is displayed.
It takes approximately 20 seconds to boot up the product.



2.2.2 Finish the product

To finish the product, press PWR button for 3 seconds.

3 Rapport-10HD functions

3.1 Functions

This product have below functions

Multi Format Video TEST (input only)

- HD-SDI
- CVBS
- HDMI
- VGA

With this product, you can check above video types of video image problem and control brightness, color and focus.

- OSD MENU system setup
- Firmware Update by USB
- Stereo Audio output (only HD-SDI/ HDMI input Audio signal)

3.2 Screen details

3.2.1 Monitoring mode

Select HD-SDI, HDMI, CVBS and VGA by using “<”, “>” buttons.
The bottom left side is shown the current video mode.

The video mode change

- Default : HD-SDI
- video mode change : HD-SDI -> CVBS-> HDMI -> VGA -> HD-SDI

Select picture ratio

- Select picture ratio Full Screen, Aspect Ratio and 1:1 by using “SET” button.
- The top right side is shown the current picture ratio with icon.



Full Screen : Picture size is to fit on the Screen.



Aspect Ratio : The picture is expended with the original picture ratio proportionally.



1:1 : Show the picture as the original picture size.
(The lager size than LCD size is shown with miniature size of LCD screen.)

FUNCTIONS

3.2.2 Screen

The video input, power connection and audio input etc, kinds of video connected informations are shown by the OSD (On Screen Display).



[Example: HDMI video]

- ① Picture : Shown the input video.
- ② Video mode : Shown the input video mode.
Video mode, resolution, frame is shown by turns.
- ③ Audio : Shown the selected Audio Pair Channel.
- ④ Picture ratio : Shown the picture ratio with icon.
- ⑤ DC power : Shown the DC power connected/ disconnected.
- ⑥ Battery: Indicates remained battery (5 steps.)
- ⑦ Input video : Select input video icon.

FUNCTIONS

3.2.3 OSD MENU

Menu

- Menu : Press "MENU" button to go into the OSD menu in the monitoring mode.
- Move item : Press "<", ">" buttons to move and select OSD menu.
- Select item : Press "SET" button to select OSD menu.

3.2.3.1 Video setting

Adjust brightness of the Video.



[Video setting]

Brightness : Adjust brightness of LCD screen.
0(Darkness)~15(Brightness)

3.2.3.2 Display setting

Adjust video display position on this menu.



[Display menu]

- H-Position : Adjust picture position horizontally on the screen.
- V-Position : Adjust picture position vertically on the screen.

3.2.3.3 Audio setting

Set the Audio signal (only HD-SDI, HDMI) on this menu.



[Audio setting menu]

- Volume : Adjust volume.
0(Mute) ~ 9(MAX) steps selectable.
- Channel : Select Audio channel.

FUNCTIONS

3.2.3.4 System setting

Set the product system on this menu.



[System setting]

- Test Pattern : Display test pattern image on the LCD.
Press "SET" button to go back to the menu.
- FirmWare(F/W) Version : Check the firmware of the product.
- F/W Update : Upgrade the product firmware.
(See the 22page for detail of Firmware upgrade)
- Factory Default : Set the all setting values to factory default.

FUNCTIONS

3.2.3.5 OSD setting

Set the product system on this menu.



[OSD menu setting]

Select OSD display in the monitoring mode.

3.2.4 Firmware update

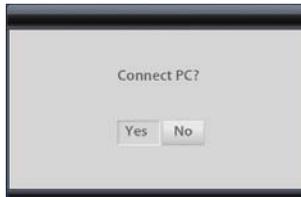
Using USB cable, update the products' firmware.

- Copy Firmware (PC-> USB connect -> SD Card of the product)

1. Connect USB cable :

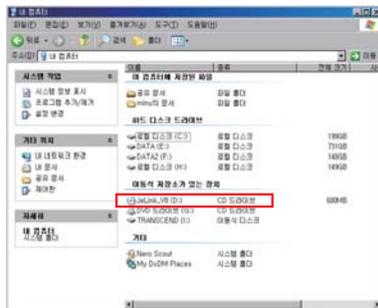
Connect the USB cable in the back side of USB terminal and PC.

2. Select "Yes" on the screen.



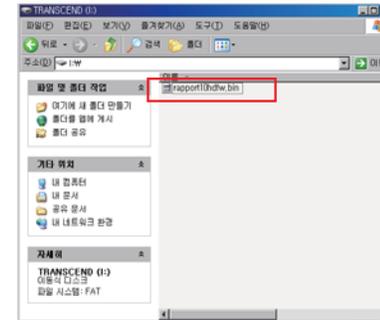
[Select "Yes" to connect USB]

3. Find the removable disk in the "My computer" of the PC.



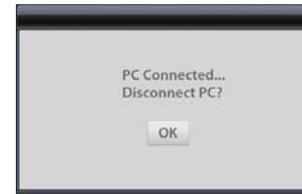
[Find "my computer"]

4. Copy the supplied firmware file(rapport10hdfw.bin) into the removable disk.



[Copy the file on the removable disk]

5. Select the "SET" button to disconnect PC.



[Disconnect the USB]

FUNCTIONS

- Firmware update

1. Select as below.

OSD Menu SYSTEM → F/W Update → YES



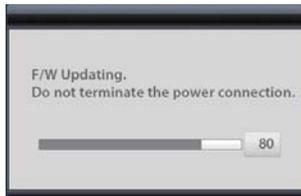
[Select F/W update]

2. The firmware is automatically upgraded.

It will take 2 minutes (Max. 3 min).

Even if the progress looks like it has stopped for dozens of seconds, it is still working normally.

(Do not disconnect power until the upgrade is finished.)



[F/W updating]

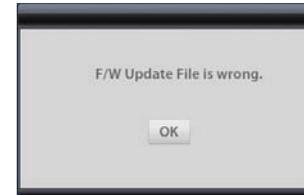
FUNCTIONS

3. When the update is completed, the following window is shown and the power will be off when the 'OK' button is pressed. Turn on the power by pressing the 'POWER' button to restart.



[F/W update completed]

4. The following screen is shown when there are no firmware files.



[F/W failed]

- Check the SD card and USB connection.

- After checking it, restart the update.

If the update is kept failing, please contact where you originally purchased the product.

FUNCTIONS

3.2.5 TEST Mode & Battery low alarm.

The test pattern function allow technicians to configure monitors and cameras video signal in/out problem. And the battery low alarm makes user know when the product need to be charged.

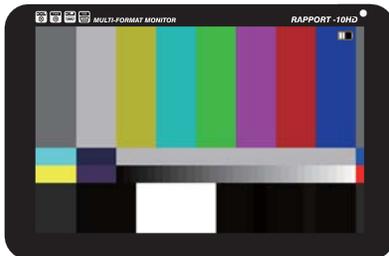
3.2.5.1 TEST pattern

1. Select as below to test pattern.

OSD Menu SYSTEM → Test Pattern -> YES -> press SET



[Select Test pattern]



[Test pattern]

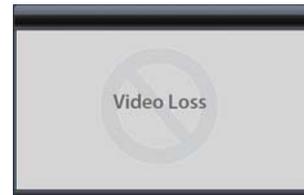
FUNCTIONS

If below message is shown, please charging the battery.



[Low Battery warning]

If there is no video input or video loss, below message is shown up



[Video Loss message]

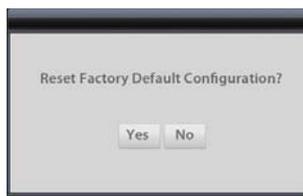
1. Select as below to set factory reset.
OSD Menu SYSTEM → Factory -> YES



[Select Factory Default]

Restore setting values to the factory default.

⚠ All existing setting value will be erased.



[Check Factory reset]

MEMO

MEMO