

**3.5" TFT MONITOR  
VIDEO METER  
USER'S MANUAL**

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# 1. Purpose

This product can receive the standard NTSC/PAL signal and measure the cable quality to display on the 3.5" TFT – LCD

# 2. System specification

Item	Specification
Panel Size	3.5 INCH DIAGONAL COLOR TFT
Video Decoder	VEDI 6111A
Image Processor	VEDI 6111A
Output Connect	ANALOG RGB TO PANEL
MCU Processor	BIT5101
Input Source	Built in 1 BNC connector for CVBS in and 1 RCA connector for Audio in
Video System	NTSC / PAL auto switch
Keypad Control	6 KEY (POWER / DOWN / UP / MIRROR / MENU /HOT KEY)
Power Supply	9.5 ~ 14V input
LED Indicator	Green LED light indicate TURN ON and BATTERY status
Speaker Output	1 AUDIO CHANEL (SP OUT 0.5W)

[Table 1] 15-MC035MT System Specification

# 3. Product Outlook

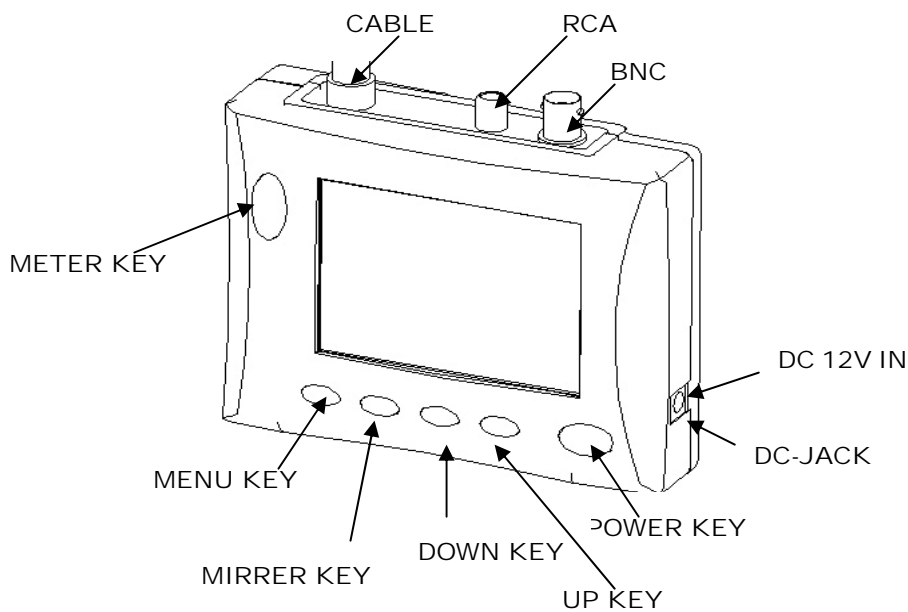


Figure 1 Product Outlook

## 4 Key pad description

Item	Key name	Function
KEY1	POWER	Power on / off
KEY2	DOWN	Menu item value adjust down/volume down hot key
KEY3	UP	Menu item value adjust up/volume up hot key
KEY4	MIRROR	Screen rotate up /down / left / right
KEY5*	MENU	Menu on/off and enter
KEY6	HOT KEY	Enter METER function
LED	LED	POWER and BATTERY indicate light

[Table 2] key pad definition

### Remark:

1. Press the POWER KEY over 2 seconds it will TURN ON , then push the power key again over 2 seconds it will TURN OFF .
2. Press the DOWN and UP KEY, it could adjust the volume directly.
3. Press the METER KEY enter the METER function
4. When the power TURN ON, LED light is green, when the battery is low voltage the LED light will blink and show up “low battery”
5. OSD show as below, the word would brink

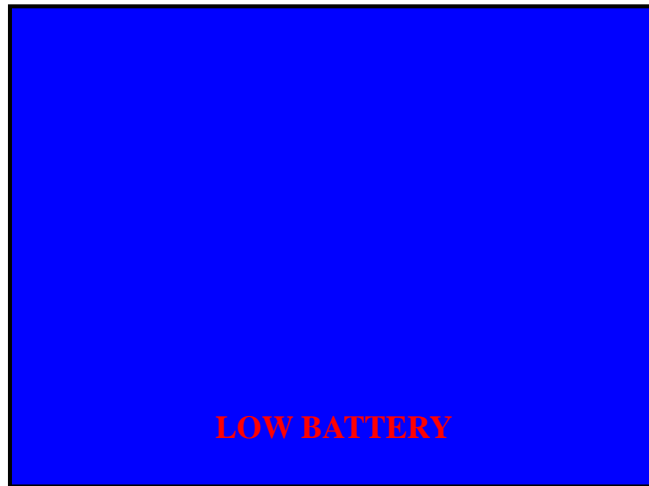


Figure 2 Low Battery screen

## 5. Menu function items and description

MENU ITEM		Description	default
1st	2nd		
<b>BRIGHTNESS</b>	<b>0 ~ 31</b>	Adjust brightness and save the value	<b>16</b>
<b>CONTRAST</b>	<b>0 ~ 31</b>	Adjust contrast and save the value	<b>16</b>
<b>COLOR</b>	<b>0 ~ 31</b>	Adjust color and save the value	<b>16</b>
<b>TINT</b>	<b>0 ~ 31</b>	Adjust tint and save the value	<b>0</b>
<b>VOLUME</b>	<b>0 ~ 16</b>	Adjust volume and save the value	<b>8</b>
<b>SOURCE</b>	<b>AV</b>	AV	<b>AV1</b>
<b>CHANNEL</b>	<b>FIX ,</b>	FIX	<b>FIX</b>
<b>RESET</b>	<b>ON / OFF</b>	Reset the BRIGHTNESS/CONTRST/COLOR/TINT/VOLUME default value	<b>OFF</b>

[Table 3] Menu function

**Remark:**

1. If you do not push the function button over 10 seconds , the MENU will disappear
2. all the functions value could be saved after adjust

## 6 Other function items and description

	Item	Description	Figure
1	Power on screen	Show current channel, the word is green	Figure 3
2	No signal screen	Show current channel and “NO SIGNAL”, if there is no any signal input over 3 minutes, this product will TURN OFF DC POWER automatically.	Figure 4

[Table 4] Other function

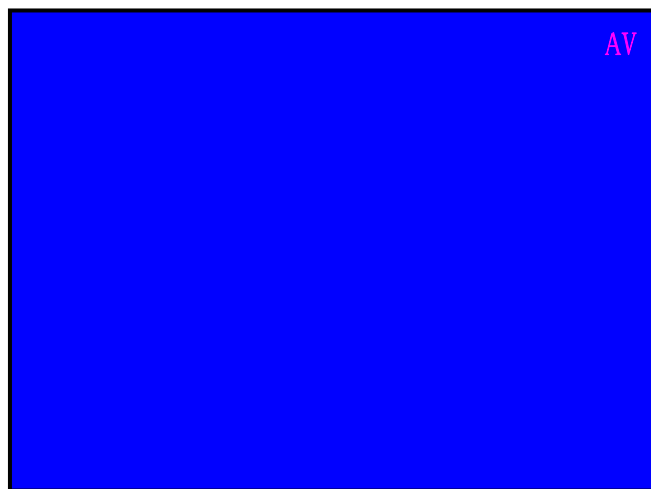


Figure 3 Power on screen

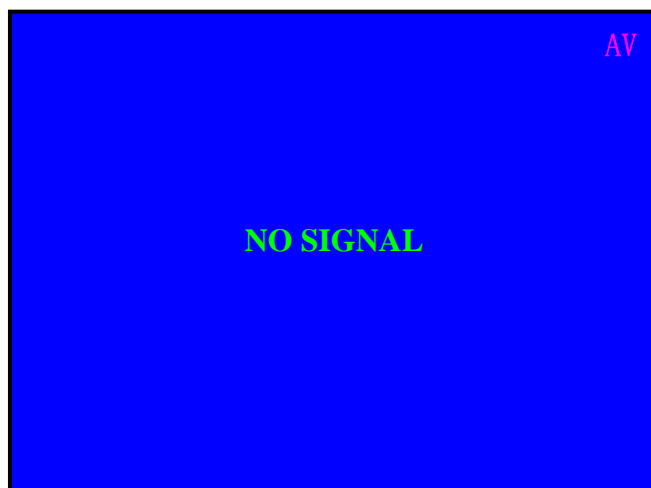


Figure 4 No signal screen

## 7 OSD function items and description

	Item	Description	Figure
1	OSD character	All the characters were built in the OSD IC	Figure 5
2	OSD character color	MENU character color is green	Figure 6/7/8
3	OSD menu	The menu item displayed one by one, you press the button then the items will switch by turn.	Figure 6/7/8

[Table 5] OSD function



Figure 5 OSD function item and character color

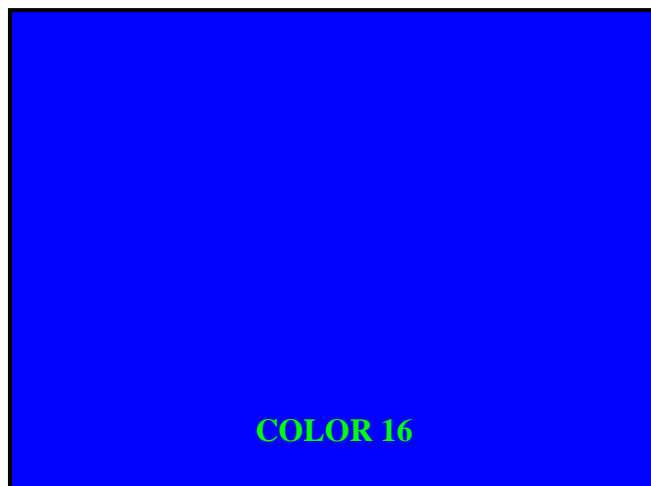


Figure 6 OSD function item and character color

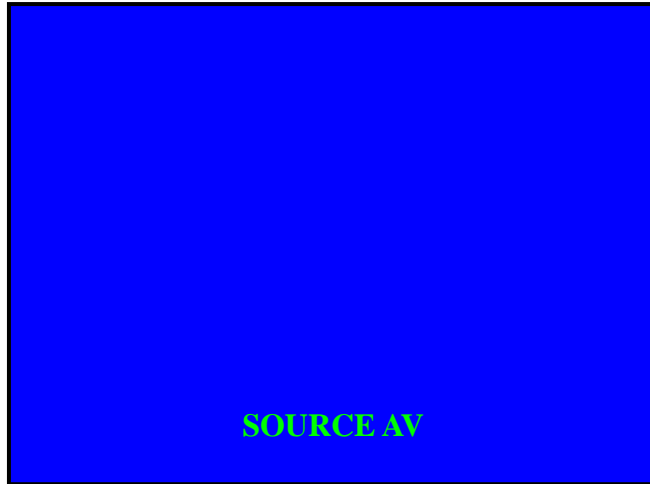


Figure 7 OSD function item and character color

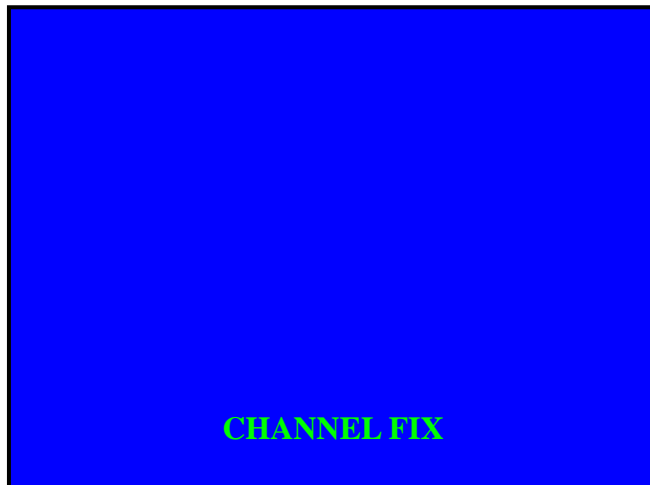


Figure 8 OSD function item and character color

## 8 METER function

1. Press the METER KEY enter the METER function, table 6 is the logic status

A0	A1	A2	OSD	CHANGE	Y
H	H	H	EXCELLENT	H	CH1
L	H	H	GOOD		
H	L	H	POOR	L	CH2
L	L	H	SHORT		
H	H	L	OPEN		

[Table 6] logic status

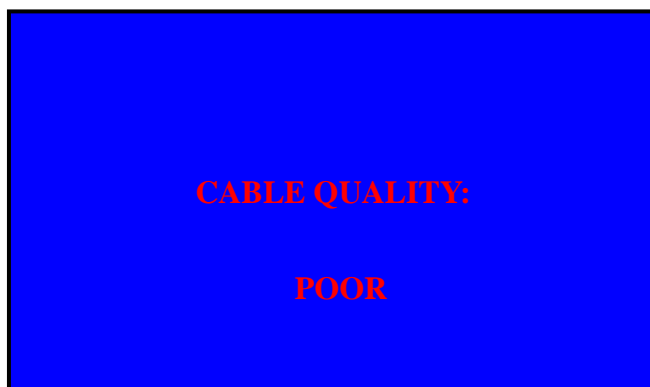




**Figure 9 H/H/H screen**



**Figure 10 L/H/H screen**



**Figure 11 H/L/H screen**

**continued**



**Figure 12 L/L/H screen**



**Figure 13 H/H/L screen**

## • BATTERY SPECIFICATION

Item	Rating	Note
3.1 Nominal Capacity	2200mAh	Discharge : 0.2CmA(440mA) cut off Voltage : 3.0V for cell
3.2 Nominal Voltage	Average3.7V	Discharge : 0.2CmA (440mA) cut off Voltage : 3.0V for cell
3.3 AC Impedance Resistance	·35mΩ	
3.4 Discharge Cut-off Voltage	2.75V	
3.5 Charge Current	1100mA	Standard Charge
3.6 Charge Voltage	4.2V	
3.7 Max. Charge Voltage	4.23V	
3.8 Charge Time	Approx 3.5h	Charge: 0.5CmA(1100mA )
3.9 Max. Charge Current	2200mA	1.0CmA
3.10 Max. Discharge Current	2200mA	1.0CmA
3.11 Weight	139.0g	
甲、 Operating Temperature	Charge	0~+45°C
	Discharge	-20~+60°C
3.13 Storage Temperature	less than 1 month	-20~+45°C
	less than 6 months	-20~+35°C
		Recommended storage temperature: 23°C ,at the shipment state

## • 15-MC035MT SPECIFICATION

1. 15-MC035MT POWER CONSUMPTION	11.2V / 340mah
2. 15-MC035MT WORKING TIME	4hr
3. 15-MC035MT CHARGE TIME(12V 2A MAX)	3hr
4. 15-MC035MT HEFT	360g
5. 15-MC035MT LOW VOLTAGE TRIGGERING	10.5V
6. 15-MC035MT SYSTEM CUT OFF VOLTAGE	9.5V