

# Cat Code: MonTest

## 3.5 inch Camera Setup Monitor Coaxial Cable Tester

### USER'S MANUAL

**1 Oct 2009** Hard Power On/Off Switch added.

Maximise Battery Life

Switch OFF at Top.

or

Leave on Charge when not in use.

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## 1. Purpose:

This product can accept standard composite 75 ohm NTSC/PAL video signal, measure cable quality & display on 3.5" TFT – LCD

## 2. System specification:

Item	Specification
Panel Size	3.5 INCH DIAGONAL COLOR TFT
Resolution	480(H)x234(H) Dot
Active Area	72.00(W)x50.544(H)mm
Dot Pitch	0.150(H)x0.216(V)mm
Pixel Configuration	R.G.B.Delta
View Angle	Top=10deg., Bottom=30deg., Left=40deg., Right=40.,
Panel Dimension	83(W)x60.5(H)x3.2(D)mm
Back Light	LED 6 Type
Video Input	NTSC Composite Signal Input(H=15.734KHZ $\pm$ 0.1KHz V=60Hz $\pm$ 1%)
Video Input	PAL Composite Signal Input(H=15.625KHZ $\pm$ 0.1KHz V=50Hz $\pm$ 1%)
Video Type	1.0Vp-p/75 $\Omega$
Video System	NTSC / PAL auto switch
Input Source	Built in 1 BNC connector for CVBS in and 1 RCA connector for Audio in
Input Voltage, Charger	12 V DC Regulated 1 Amp via 2.1 mm x 5.5 mm DC Socket center (+)
Power Consumption	NORMAL : DC12V, ~ 340 mA (4W)   CHARGE: 12VDC Regulated 1A max
Speaker Output	1 AUDIO CHANNEL
Working Time	~ 6 hr
Charge Time	~ 4 hr
Low Voltage Triggering	10.7 V
System Cut off Voltage	9.3 V
Keypad Control	6 KEY (POWER / UP/ DOWN / MIRROR / MENU /METER KEY)
LED Indicator	LED light indicate TURN ON and BATTERY status
Operation	Operating Temperature 0°C~50°C
	Storage Temperature -25°C~80°C
Weight	~350g

### 3. Product Outlook:

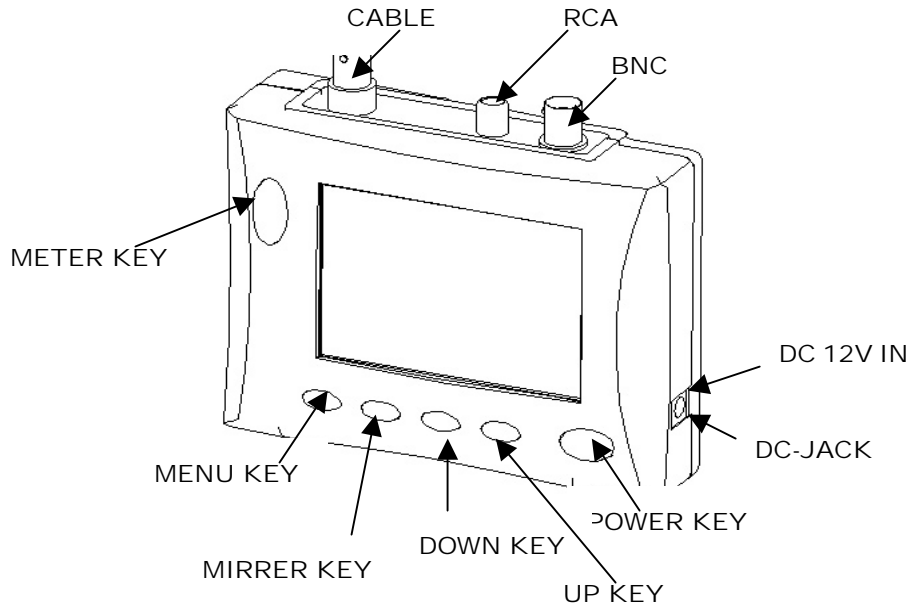


Figure 1 Product Outlook

### 4 Key pad: **New (from 1 Oct 2009) 'hard' On/Off Switch at Top not pictured**

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

## Remark:

1. Switch On at Top and press front panel POWER KEY for ~ 2 seconds to turn Monitor ON , to **maximise Battery Life** **Switch Off at top** or **leave On-Charge when not in use** .
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"
5. OSD show as below

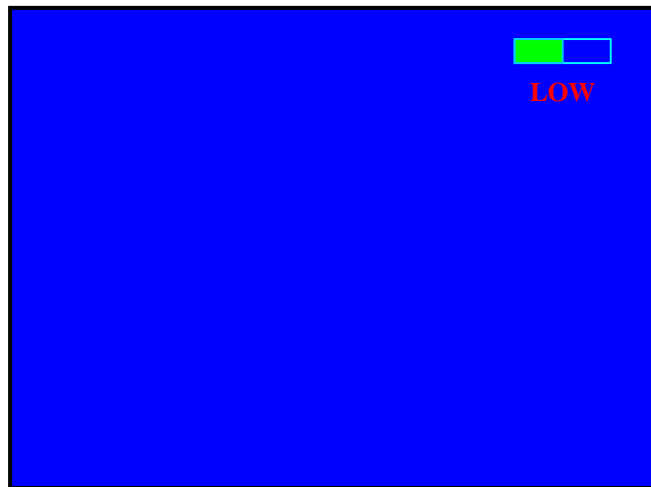


Figure 2 Low Battery screen

## 5. Menu function items and description

MENU ITEM		Description	default
CONTRAST	0 ~ 100	Adjust contrast and save the value	50
BRIGHTNESS	0 ~ 100	Adjust brightness and save the value	50
COLOR	0 ~ 100	Adjust color and save the value	50
TINT	0 ~ 100	Adjust tint and save the value	50
VOLUME	0 ~ 100	Adjust volume and save the value	30
RESET	Save / Reset	Reset the CONTRAST/ BRIGHTNESS /COLOR/TINT/VOLUME default value and exit menu	SAVE

### Remark:

1. If you do not push any function button within **5** seconds , the MENU will disappear
2. Function **values revert to default** when Top Switch is turned Off or Battery is discharged
3. When the screen display RESET and press UP and DOWN key, the CONTRAST/ BRIGHTNESS /COLOR/TINT will be load default value

## 6 Other function items and description

	Item	Description	Figure
1	Power on screen	Show Video automatically.	Figure 3
2	No signal screen	Show "NO SIGNAL", if there is no any signal input.	Figure 4

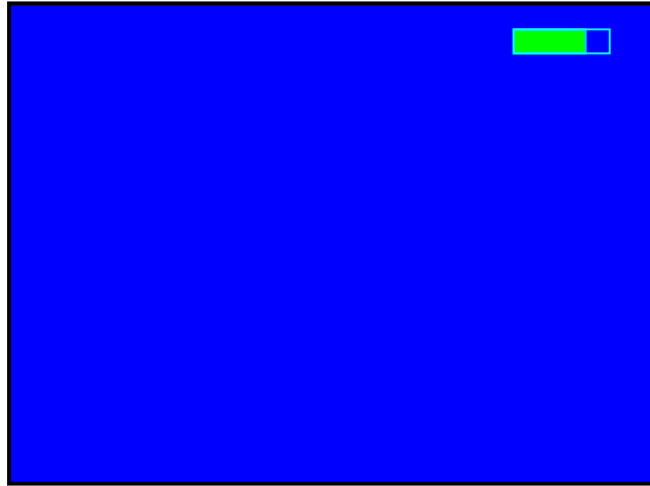


Figure 3 Power on screen



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 6/7/8/9
3	OSD menu	The menu item displayed one by one, you press the button then the items will switch by turn.	Figure 6/7/8/9

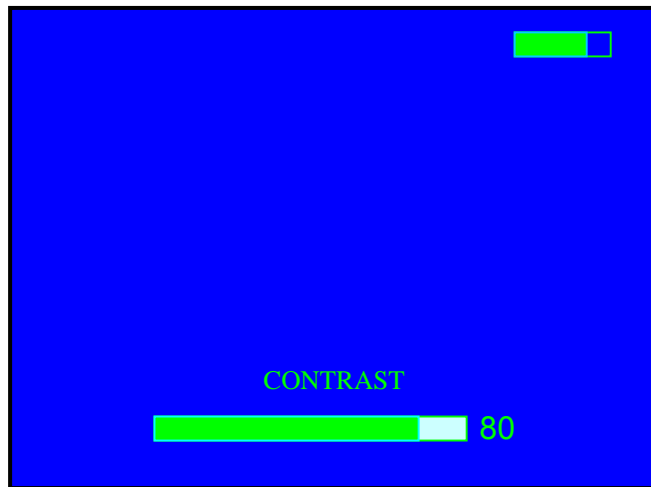


Figure 5 OSD function item and character color



Figure 6 OSD function item and character color



Figure 7 OSD function item and character color

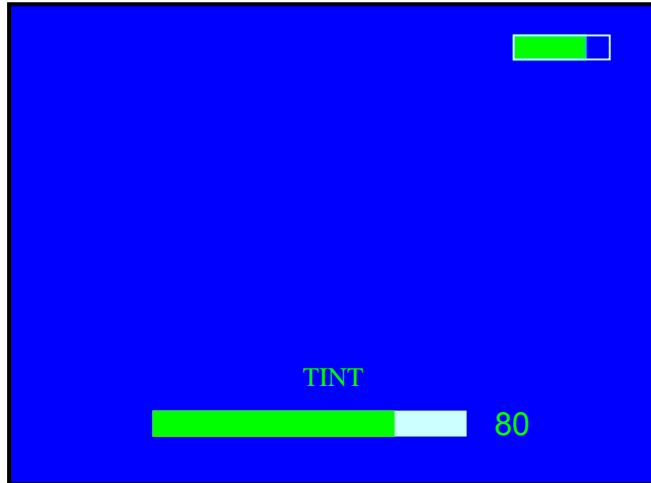


Figure 8 OSD function item and character color



Figure 9 OSD function item and character color

## 8 METER function

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

ITEM	VALUE	CABLE QUALITY	DISPLAY
1	0~74Ω	SHORT	Figure 12
2	75~125Ω	EXCELLENT	Figure 09
3	126~150Ω	GOOD	Figure 10
4	151~200Ω	POOR	Figure 11
5	201Ω~∞	OPEN	Figure 13

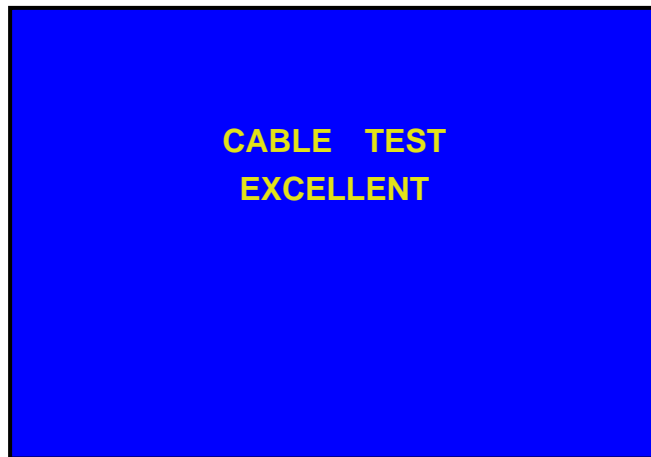


Figure 10 Excellent Screen



Figure 11 Good Screen

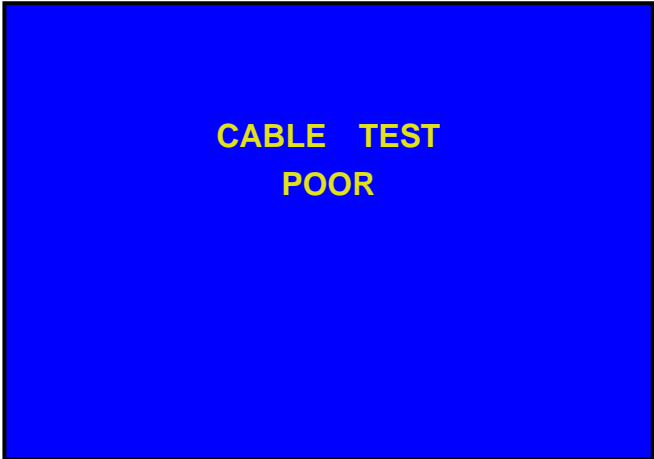


Figure 12 Poor Screen

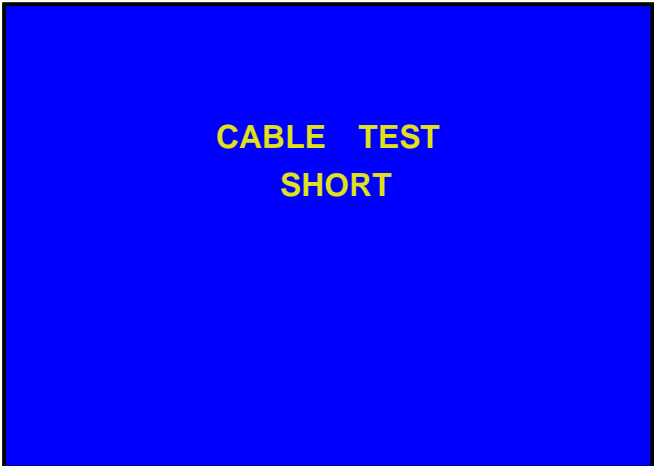


Figure 13 Short Screen

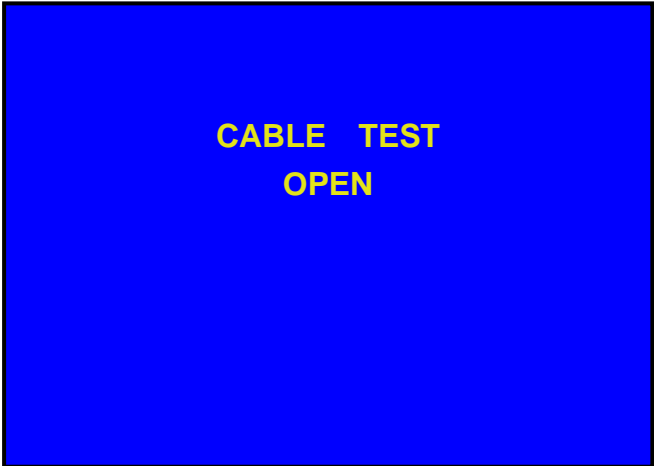


Figure 14 Open screen

## Battery:

**Switch at top must be ON to Charge Battery Fully CHARGE after use & every 60 days**

Item		Rating	Note
Nominal Capacity		2000mAh	Discharge : 0.2CmA (440mA) cut off Voltage : 3.0V for cell
Nominal Voltage		Average 3.7V	Discharge : 0.2CmA (440mA) cut off Voltage : 3.0V for cell
Discharge Cut-off Voltage		2.75V	Single cell cut-off voltage
Charge Current		1100mA	Standard Charge
Charge Voltage		11.1V	Single cell voltage 3.7V
Max. Charge Voltage		12.6V	Single cell voltage 4.2V max
Charge Time		Approx 4 h	Charge: 0.5CmA (1000mA max)
Max. Charge Current		2000mA	1.0CmA
Max. Discharge Current		2000mA	1.0CmA
Operating Temperature	Charge	0~+45°C	
	Discharge	-20~+60°C	
Storage Temperature		-10~+35°C	Recommended storage temperature: 23°C, at the shipment state

## MONITOR SPECIFICATION

1. POWER CONSUMPTION	11.2V / 340mah
2. WORKING TIME	approx 6 hours
3. CHARGE TIME (12V, 1A MAX)	approx 4 hours
4. WEIGHT	350g
5. LOW VOLTAGE TRIGGERING	10.7V
6. SYSTEM CUT OFF VOLTAGE	9.3V