

# High Efficient TFT-LCD Portable Monitor, SC-LFC56N

## *User Manual*



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## 1. Specifications & Components

### 1-1. Specifications

Items		Specifications	
LCD	Display Resolution	960(W) x 234(H)	
	Size	5.6"	
	Pixel Pitch	0.118(W) x 0.362(H)	
	Brightness (cd)	NOR:500, MAX:625	
	Viewing Angle	Top	20°
		Bottom	40°
		Left	50°
Right		50°	
Response (ms)	20		
Input	CVBS	NTSC/PAL, 1.0Vp_p	
	VGA	640x480, 60Hz	
Output	CVBS	FULL COLOR BAR NTSC/PAL 1.0Vp_p(75Ω)	
Video Level Range	A Level	10 ~ 118 %	
	F Level	20 ~ 120 %	
	Tolerance	+/-2%	
Finishing	Cobalt Blue		
Battery	Li-Ion: 11.1V, 2200mA (Built-in Protection Circuit)		
Power Consumption	CVBS : 5.2W		
	Level Meter : 6.4W		
Temperature	0°C ~ +50°C		
Humidity	0% ~ 80%		
Weight	1Kg		
Dimension *	185(W) X 120(H) X 50(D)mm		

\* Without carrying bag

### 1-2. Components

Monitor	Carrying Bag	Charger
		

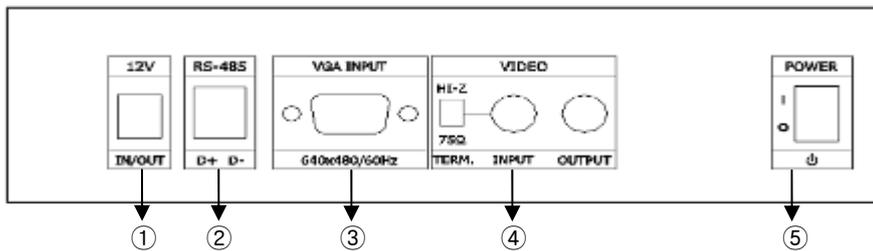
## 2. Precautions

**For your easy and convenient using of potable monitor, we would like you to read this user manual thoroughly before you use it.**

- Avoid touching the screen. Skin oils are difficult to remove.
- If the LCD emits smoke, abnormal noise, or a strange odor, immediately turn it off and contact our service center.
- Warning – To reduce the risk of fire or electric shock, do not expose the LCD to rain or moisture !
- Please always handle with care. Otherwise, the LCD may fragile in case of high impact and/or drop it to the ground.
- To clean the screen, wipe the screen with a clean, soft, lint-free cloth. This removes dust and other particles. If it still is not clean, apply a small amount of non-ammonia, non-alcohol based glass cleaner onto a clean, soft, lint-free cloth, and wipe the screen.
- Please do not connect the power to video input/output.
- Please use our charger, which is packed with other component originally. If you use other charger, it may cause the fire or explosion. (Please contact the service center in case of red LED light is off while charging.)
- We guarantee the built-in battery six months from the date of purchasing. If you require the battery additionally, please contact us. (Please do not use another type of battery on this portable monitor as it may cause the fire or explosion.)
- Please do not disassemble or make a short at built-in LI-ION battery (11.1V / 2200mA).
- The battery can be explosion in case of a short at the charger and/or reverse connection of polar.
- We recommend that the portable LCD should be always placed at carrying bag to protect the scratch of LCD panel.

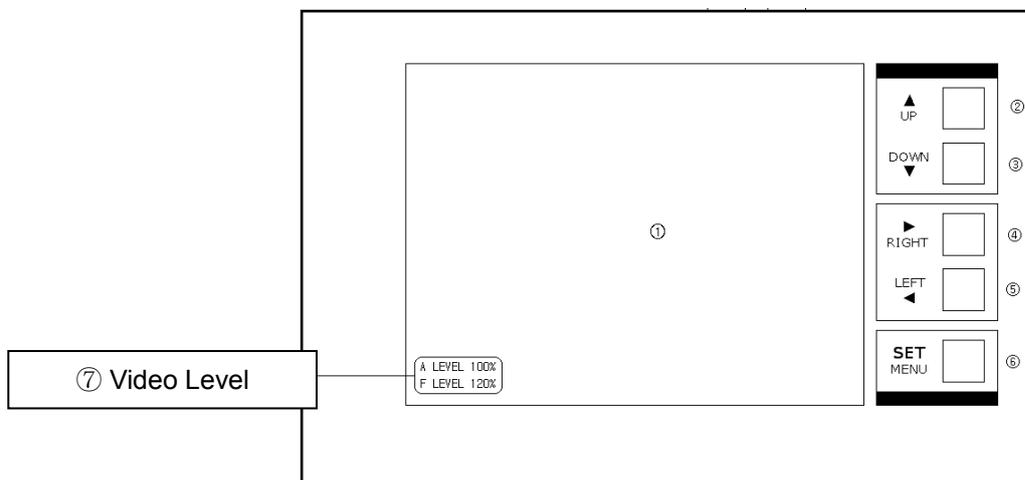
### 3. Name & functions of parts

#### 3-1. Input & Output



No	Marking	Function	
①	12V	Input DC 12V charger/adaptor or output DC12V to camera	
②	RS-485	RS-485 for PTZ control	
③	VGA	VGA (640×480/60Hz) Input	
④	Video	Term	With loop through : HI-Z position Without loop through : 75Ω position
		Input	CAMERA or CVBS video signal input
		Output	Full color bar signal out
⑤	Power	Power ON/OFF	

#### 3-2. Display & Menu



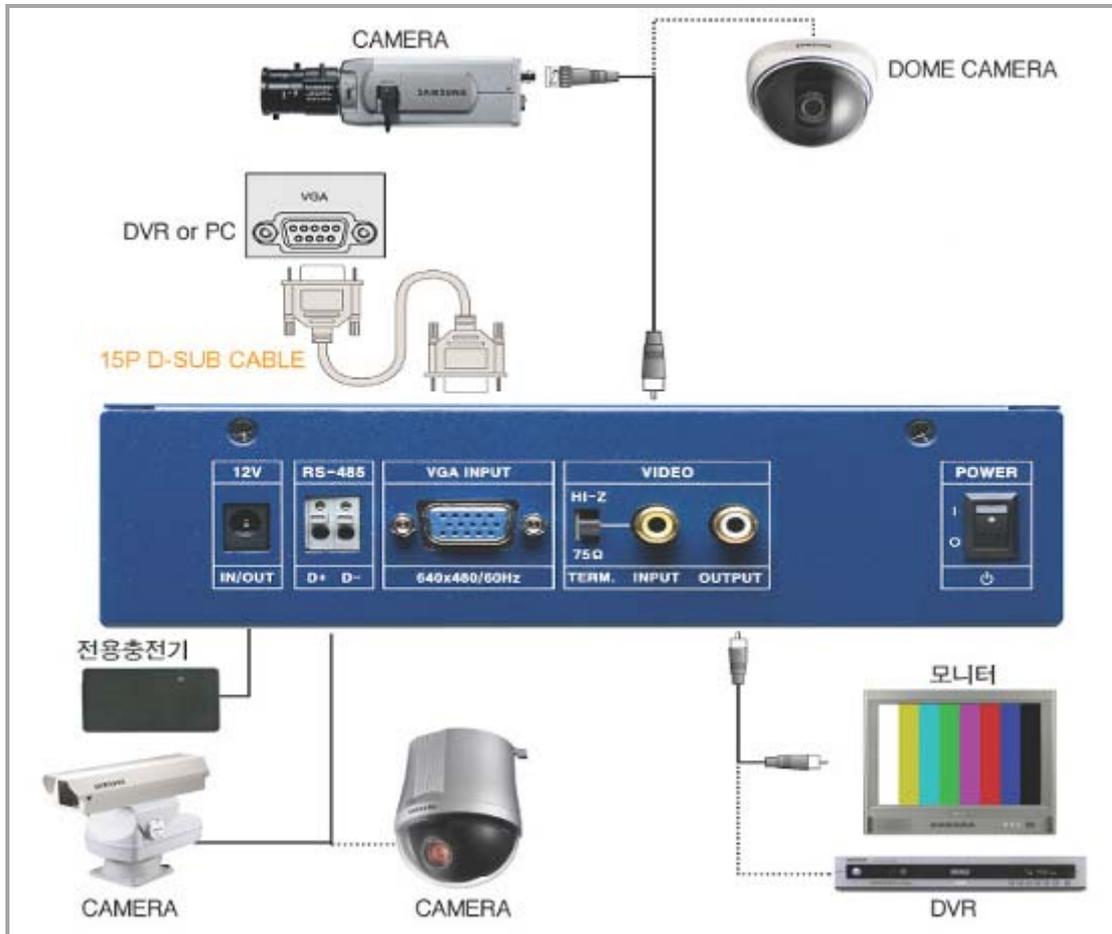
No	Marking	LCD Display & Function		
	Mode	Menu	RS-485	Adjust Angle
②	UP	↑	Tilt_Up / Zoom_Wide	Top
③	DOWN	↓	Tilt_Down / Zoom_Tele	Bottom
④	RIGHT	→	Pan_Right / Focus_Far	Right
⑤	LEFT	←	Pan_Left / Focus_Near	Left
⑥	SET/MENU	Set main menu		

① : 5.6" TFT-LCD Display Panel

⑦ : Display A level & F level of CVBS video respectively

## 4. Operation

### 4-1. Connection



#### 4-2. Video input

You can see video at LCD when you connect camera or video signal into VIDEO input.

#### 4-3. Video test pattern signal output

You can check wiring status, monitor and DVR. (For more details, please refer to page 9)

#### 4-4. VGA input

Check the output of DVR or VGA(640×480/60Hz) from PC  
Support VGA up to 640×480/60Hz

#### 4-5. PTZ control through RS-485

Through RS-485 com port, you can control PTZ Receiver and SPEED DOME CAMERA.  
Support various protocols upon request.

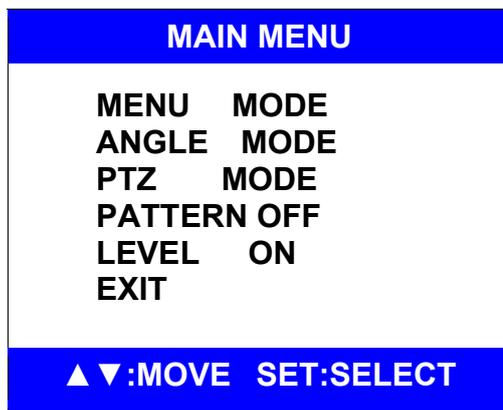
#### 4-6. CVBS video signal level

It displays CVBS video signal level with SYNC and BURST as well as it is adjustable manually.

## 5. Menu Setting

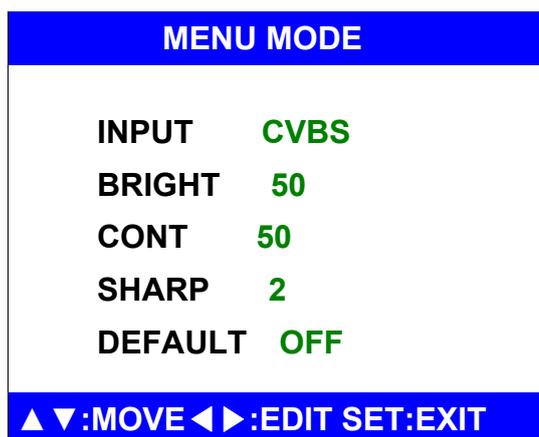
### 5-1. Main Menu

- Menu displays when press SET/MENU key as below.
- Move the direction key (Up: ↑, Down: ↓, Right: →, Left: ←). There is no press key for a while, Menu is off automatically.



- MENU MODE: Select input and adjust the brightness, contrast and sharpness.
- ANGLE MODE: Display the guide line for adjusting camera angle.
- PTZ MODE: Control PTZ receiver and speed dome camera through RS-485.
- PATTERN: Check the wiring status, monitor and DVR.
- LEVEL : CVBS video signal level on/off
- EXIT: Exit MAIN MENU.

### 5-2. MENU MODE



- INPUT : Select the displaying video (CVBS / VGA).
- BRIGHT : Adjust the brightness (0 ~ 100 steps, default : 50).
- CONT : Adjust the contrast (0 ~ 100 steps, default : 50).
- SHARP : Adjust the sharpness (0 ~ 100 steps, default : 50).
- DEFAULT: All return to the default setting.

### 5-3. ANGLE MODE



- Guide line displays at the window when select Angle Mode.
- When press SET (MENU) KEY, left line flicker and then press ◀▶ KEY, decide the position of left line. When press SET KEY again, right line flicker, and then press ◀▶ KEY, decide the position of right line. UP & DOWN lines are adjusted same as above-mentioned.
- Press SET key many times, then return to upper mode.

### 5-4. PTZ MODE

PTZ MODE	
PTZ ADDR	001
PROTOCOL	SAMSUNG
BAUDRATE	9600
START	
EXIT	
▲▼:MOVE ◀▶:EDIT SET:ENTER	

- PTZ ADDR: Change the address of control device.
- PROTOCOL: Select the model of control device.
- BAUDRATE: Select com speed. (2400, 4800, 9600, 19200bps).
- START: Start to control after applying the setting.
- EXIT: Exit MENU mode.

### 5-4-1. TX MODE

MODE	ADDR	PROTOCOL	BAUD
TX	001	SAMSUNG	9600
▲▼: ZOOM(TILT)			
◀▶: FOCUS(PAN)			
SET:SHORT PT<-> ZF			
LONG EXIT			

- Display the current setting at the top of window.
- Press SET key shortly, then pan/tilt mode and zoom/focus mode toggle.
- Press SET key long, then goes to PTZ mode.
- Do the control following OSD guide.

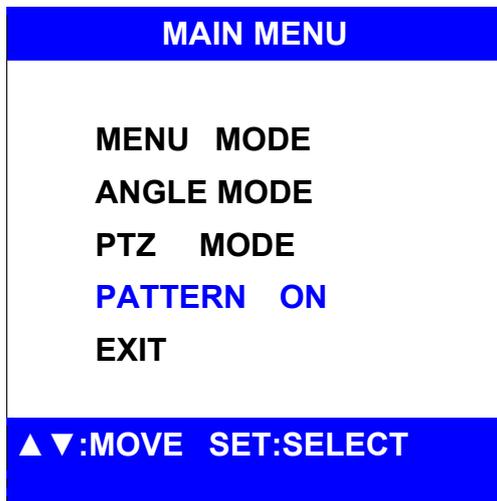
### 5-4-2. Built-in Protocol

No	Manufacturer	Model No.
1	SUNGJIN	RECEIVER / MPU
2	VICON	VICON PROTOCOL
3	DONGYANG UNITECH	DRX-500
4	DONGYANG	DY-255RXC
5	INTER-M	VRX-2201
6	PELCO	D-PROTOCOL
7	SAMSUNG ELECTRONICS	SCC-64X
8	SAMSUNG TECHWIN	SPD-1600

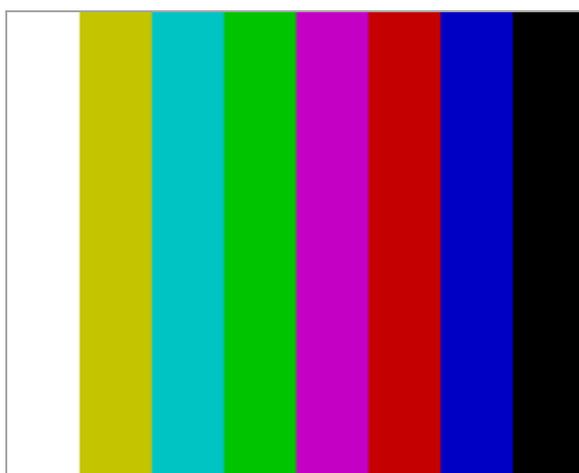
Other protocols are available upon request in case the manufacturers provide us with their protocols in advance.

## 5-5. VIDEO PATTERN GENERATOR

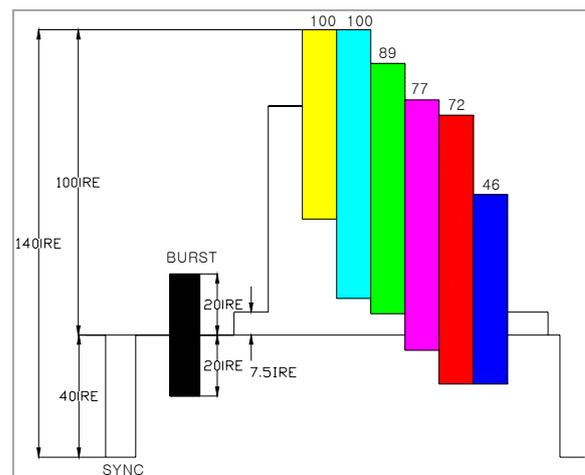
With built-in video pattern generator, it is easy to check the wiring status, monitor and DVR.



- Select PATTERN ON or OFF by pressing SET key at the Main Menu. Full color bar goes out through output (RCA F) when ON selected as below pictures.
- To see it in itself, please connect video input with output via RCA cable.



(COLOR MONITOR)



(Signal Level)

## 5-6. Level On / Off

It displays CVBS video signal level with SYNC & BURST. You can adjust the signal levels easily while monitoring the display for the optimal video quality. However, you'd better turn off this function after you complete the adjustment the signal level to save the battery as it consumes about 1.2W when it is operated.

\* OFF : Please select "Level ON" by moving ▲KEY & ▼KEY at top Main Menu, and then press "SET KEY", then "Level On" change to "Level Off" and the level meter disappear.

## 6. Warrantee Certificate

This product has passed thorough quality control and test, and if this gets broken during normal use we provide 12 months warranty service.

<b>Model No.</b>		
<b>Serial No.</b>		
<b>Distributor</b>		
<b>Date you purchased</b>		
<b>Place you purchased</b>		
<b>Warranty Period</b>		One (1) year from the date of purchase
<b>Purchaser</b>	<b>Name</b>	
	<b>Add.</b>	

- ✚ Check this warranty first.
- ✚ Please contact the distributor after checking out any defect in the products.
- ✚ The standard for repairing, replacement or reimbursement follows Customer.
- ✚ Warranty content any defect under normal use within the warranty service period we give you free repair service according to the warranty certificate.
- ✚ We charge you with the fee of parts and service despite free warranty service period.
  1. Any breakage made without care.
  2. Breakage or trouble made by natural disaster.
  3. Breakage or trouble made by breaking the product guide or manual.
  4. Breakage or trouble made by wrong power voltage or frequency.
  5. When you want to reassemble for full system or replace parts within warranty service period.
  6. When unauthorized person modified or made damage on the product trying to repair it, we may charge you with the fee.
- ✚ Please note that we don't support the breakage after warranty service period. If the customer wants to get it repaired, we charge them with the fee.
- ✚ The specification is subject to change without prior notice to improvement the quality.

