

21.5-INCH VALUE TFT-LED MONITOR

SM-F212



INSTRUCTION MANUAL

Please read this manual thoroughly before use, and keep it handy for future reference.

CONTENTS

1, General information	3
1.1 Product description and type of use.....	3
1.1.1 General features.....	3
1.2 Opening the box.....	3
1.2.1 Contents of the box	3
1.3 Warnings.....	3
1.3.1 Power.....	3
1.3.2 Safety precautions.	3
1.3.3 Installation precautions	4
1.3.4 Cleaning the device.....	4
1.3.5 Privacy and copyright.....	4
2, INTERFACES, CONTROLS & SETTINGS.....	5
3, OSD MENU CONTROLS.....	8
A. PICTURE	8
B. PC	9
C. SOUND	10
D. SETTING.....	11
4, SPECIFICATION	12

1. GENERAL INFORMATION

Dear Customer,

Thank you for having purchased this product. This document describes how to install and use the LED backlit LCD color monitor. Read this manual which contains information for correct, safe use carefully. Keep this manual at hand so that you can refer to it when needed.

1.1 PRODUCT DESCRIPTION AND TYPE OF USE

The LED backlit LCD color monitor presents a very rugged structure. It is designed for continuous operation and can be used in closed circuit TV systems without risks of excessive fatigue. The Flat Panel Display has an active matrix, thin-film transistor (TFT), liquid crystal display (LCD).

1.1.1 GENERAL FEATURES

- DC 12V Power Input
- Display area
- Wall mounting VESA standard 100*100mm (Not included bracket)
- Socket audio input for PC and BNC
- BNC Input
- VGA Input video input Interface
- HDMI Input video input Interface

Multilingual OSD menu for easy setting and optimization of the display

1.2 OPENING THE BOX

Check that the packing and the contents are not visibly damaged. Contact the retailer immediately if parts are either missing or damaged. Do not attempt to use the device in this case. Send the product back in its original packing if it is damaged.

1.2.1 CONTENTS OF THE BOX

- Monitor
- Remote Control
- Power Adapter
- Power cable
- HDMI cable
- User's manual

Important Note: Accessories may be changed without prior notice.

1.3 WARNINGS

1.3.1 POWER

- Only use the power unit provided to power the device. Check mains rating before plugging the power unit in.
- Do not pull the cable to unplug the device.

1.3.2 SAFETY PRECAUTIONS

- Keep the device away from rain and humidity to prevent risk of fire and electrocution. Do not introduce material (solid or liquid) inside. If this should accidentally occur, disconnect the device

from the mains and have it inspected by qualified personnel.

- Never open the device. In all cases, contact the qualified personnel or authorized service center for repairs.
- Keep the device away from children, to prevent accidental damage.
- Do not touch the device with wet hands to prevent electrical shock or mechanical damage.
- Do not use the device if it should fall or the external casing is damaged. Risk of electrocution if the device is used in such conditions. Contact the retailer or authorized installer.
- It is advisable to disconnect the power wire if the monitor is not used for a certain time.

1.3.3 INSTALLATION PRECAUTIONS

- To prevent overheating the device, arrange it in a position allowing the flow of air through the slots in the casing. Ensure at least 5 cm of free space when installing inside a rack. For the same reason, do not install sources of heat, such as radiators or hot air ducts. Keep away from direct sunlight. Do not install in areas subject to excessive dust, mechanical vibrations or shocks.
- Do not arrange this device on an unstable surface, such as a tottering or slanted table. The device could fall causing injury or mechanical failures.
- Do not install the device in a place where it could be exposed to humidity or water. Do not direct a jet of water onto the device: risk of fire, electrocution or mechanical failure.
- Stop using the device if water or other material should penetrate inside: risk of fire and electrocution. Contact the retailer or authorized installer.
- Slots and openings in the cabinet are provided for ventilation. These openings must not be blocked or covered.
- Do not place heavy or heat generating objects on top of the device: this could damage the casing and/or increase internal temperature causing faults.
- Do not cover the device with a cloth while it is running to prevent deforming the external casing and overheating the internal parts: risk of fire, electrocution and mechanical failure.
- Keep magnets and magnetized objects away from the device to prevent faults.
- Do not use the device in presence of smoke, vapor, humidity, dust or intense vibrations.
- Wait for a while before operating a device immediately after transporting it from a cold place to a warm place and vice versa. Wait on average for three hours: this will allow the device to adapt to the new ambient (temperature, humidity, etc.).
- The monitor is provided with a plastic base and rubber feet. It can be positioned on a horizontal surface, such as a desk or a table. Make sure that the device is fastened firmly and that it is not resting on unstable supports or surfaces. Dropping could cause severe injury and damage the device.
- Remember to adjust the brightness and contrast to obtain a perfect image.
- The monitor can also be installed on the wall by means of a bracket (not provided).

1.3.4 CLEANING THE DEVICE

- Rub delicately with a dry cloth to remove dust and dirt.
- Dip the cloth in neutral detergent if dirt cannot be eliminated with a dry cloth alone.
- Do not use volatile liquids (such a petrol, alcohol, solvents, etc.) or chemically treated clothes to clean the device to prevent deformation, deterioration or scratches to the paint finish.

1.3.5 PRIVACY AND COPYRIGHT

- The monitor is a device for CCTV systems. Recording of images is subject to the laws in force in your country. Recording of images protected by copyright is forbidden.
- Product users shall be responsible for checking and respecting all local rules and regulations concerning monitoring and recording video signals. The manufacturing SHALL NOT BE LIABLE for use of this product not in compliance with the laws in force.

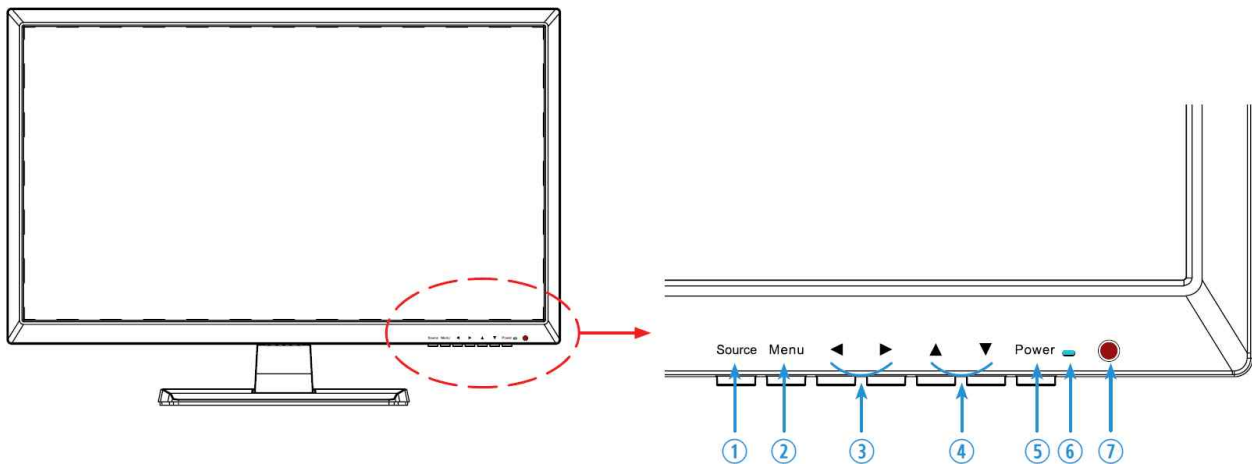
2.INTERFACES, CONTROLS & SETTINGS

Monitor Interfaces



Interfaces instruction	
DC In	The main power input of monitor, DC12V
HDMI In	The HDMI Input Source
VGA In	The VGA Input Source
Audio In	The Audio Input Source
BNC In(CVBS)	The BNC Input for CVBS Source
BNC Out(CVBS)	The BNC Looping output for CVBS Source

Monitor Control Buttons



1, Source

Select an input source

2. Menu

Enter the MENU, save the adjustment of sub-menu and exit the OSD

3. Left & Right ◀ (VOL) ▶

Change the value on selected menu

4. Up & Down ▲ ▼

Switch a menu on OSD

5. Power

Monitor power on / off

6. LED Indicator

Green color: monitor on

Red color : monitor off

7. IR Receiver

Monitor Button Function

All picture, sound settings and setup can be adjusted in OSD (On Screen Display) menu.

To adjust the OSD screen:

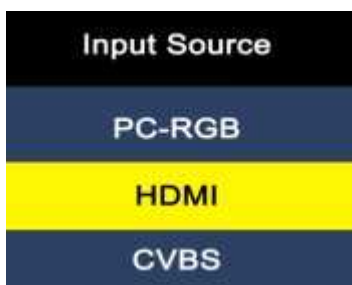
1. Press the **MENU** button to enter the **OSD MENU**.
2. Press the ◀ / ▶ buttons to select the desired **main-MENU**. The selected **Main-MENU** is highlighted.
3. Press the ▲ / ▼ buttons to select the desired **sub-MENU**. The selected **Sub-MENU** is highlighted.
4. Change the value you wish to adjust by using the ◀ / ▶ buttons.

5. Press the **MENU** button to confirm the adjustment on **sub-MENU**.
6. Press the **MENU** button to exit the **sub-MENU** and go back to the **main-MENU**.
7. Press the **MENU** button to exit the **OSD MENU**.

No signal/Check Signal

No Signal Input, please check with the input Sources of the monitor.

Select Input Source



Press 'SOURCE' button on monitor or 'INPUT' button on remote controller.

Press ▲ / ▼ button to change input source and then press ► button to select input source on monitor.

Press ▲ / ▼ button to change input source and then press 'INPUT' / ► buttons to select input source on remote controller.

Volume



Press ◀ / ▶ buttons to adjust volume on monitor.

Press ◀ / ▶ buttons to adjust volume on remote controller.

Detect Source Signal Message

If you connect any input source, monitor will display current input source resolution and frequency.

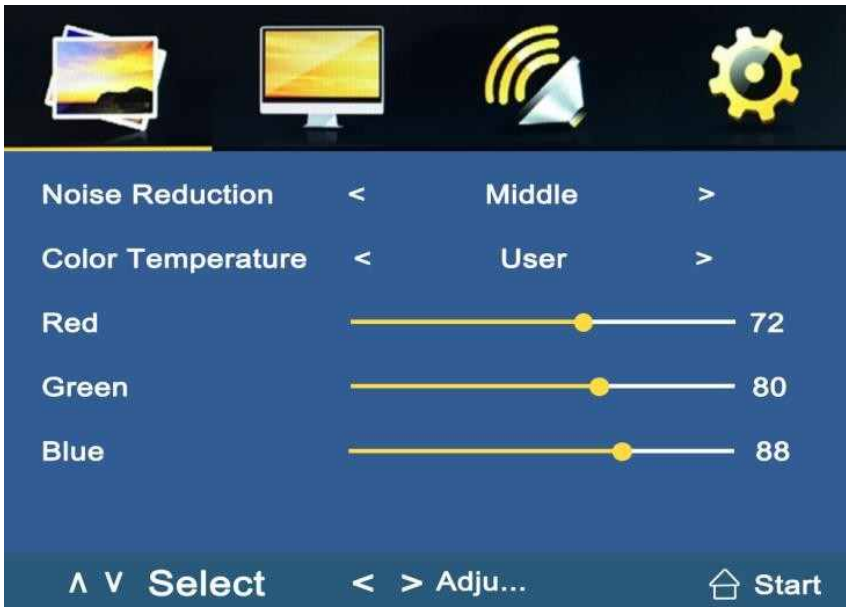
3.OSD MENU CONTROLS

A. PICTURE



Option	Function	Value
Picture Mode	Adjust the image color setting.	See table below
Contrast	Adjust the contrast	0 ~100
Brightness	Adjust the brightness	0 ~100
Color	Adjust the color saturation	0 ~100
Tint	Adjust the tint	0 ~100
Sharpness	Adjust the sharpness	0 ~100
Aspect Ratio	Adjust the video format	16:9, 4:3
Noise Reduction	Reduce noise of the display image	LOW/MIDDLE /HIGH / DEFAULT / OFF
Color Temperature	Adjust the color setting	See table below

Picture Mode	
Standard	Provide standard contrast and sharpness
Soft	Reduce contrast and sharpness
User	Apply user selected values - brightness, contrast, color and hue
Vivid	Provide enhanced contrast and sharpness



Color Temperature	
Medium	Give the white color a neutral tint
Warm	Give the white color a reddish tint
User ¹⁾	Set custom color temperature
Cool	Give the white color a blueish tint

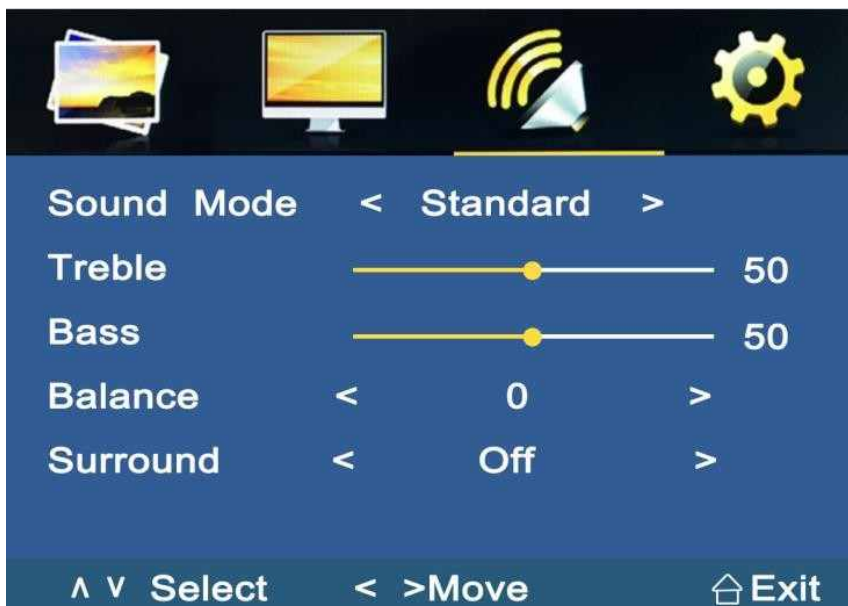
1) To set custom color temperature (R,G,B values), select "USER" to set color temperature. Keep pushing 'Down' button on the monitor or there mote controller, then you will see Red, Green and Blue option.

B. PC (only on VGA input interface)



Option	Function	Value
Auto Adjust	Fit the image setting automatically	
Horizontal Pos.	Adjust the horizontal position of picture	0 ~100
Vertical Pos.	Adjust the vertical position of picture	0 ~100
Size	Adjust the display size	0 ~100
Phase	Reduce video distortion and instability components	0 ~100

C. SOUND



Option	Function	Value
Sound Mode	Select one of the presets	USER / SPORTS / MOVIE / MUSIC / STANDARD
Treble	Adjust the treble level	0 ~100
Bass	Adjust the bass level	0 ~100
Balance	Adjust the balance	-50 ~ +50
Surround Sound	Select sound effect	Surround, Off, SRS True Surround XT

D. SETTING



Option	Function	Value
OSD Language	Set the language of the OSD menu	English, Chinese
Restore User Default	Reset the monitor settings to the factory default	
No Signal Screen	Show the color when there is 'No signal "	Blue, Black
No Signal Standby	Standby power when there is 'No signal	On, Off
Prevent Burn-in	Set periodic image retention	On, Off

*Prevent-Burn-In Function is an innovative technology to prevent the After Image or Ghost Image on the LCD while the monitor is running 365/24/7 for CCTV industry.

4. SPECIFICATION

Size & Type		21.5"
LCD	Panel Type	21.5" LED Backlit Monitor
	Pixel Pitch	0.24825 (H) x 0.24825(V) mm
	Brightness (Max)	220cd/m ²
	Contrast Ratio	1000:1 (Typ.)
	Display Color	16.7 Million Colors
	Viewing Angle	R/L: 85°/85° U/D: 80 /80°
	Response Time	5ms
Resolution	1920 (H) * 1080 (V)	
Case Type	Black Plastic	
Active Display Area	476.64(H) x 268.11(V)	
Aspect Ratio	16:9	
Frequency	30-80KHz (H)/ 50-75Hz(V)	
Color Temperature	Medium / Warm / Cool / User	
Speaker	3W x 2	
Operating Temp.	0~40°C	
Weight	Net : 3.8 kg	
	Gross : 4.8 kg	
INTERFACE	CVBS BNC Input *1 / Output*1	
	VGA*1, Audio Input*1	
	HDMI (High Definition Multimedia Interface)*1	
Safety & EMC Certification	CE / FCC / RoHS	
Electrical Ratings	12V DC, 3A(AC 100-240V, 50/ 60 Hz)	
Power Consumption	27W	
Accessories	HDMI cable, Power Supply & Cable, User's Manual, Remote controller	

Important Note: The specification may be changed without prior notice.

MEMO



IDIS HQ

IDIS Tower, 344 Pangyo-ro
Bundang-gu, Seongnam-si
Gyeonggi-do
Republic of Korea

☎ +82 (0)31 723 5400
☎ +82 (0)31 723 5100
✉ sales@idsglobal.com

IDIS America

801 Hammond St, Ste 200
Coppell, TX 75019
U.S.A.

☎ +1 469 444 6538
☎ +1 469 464 4449
✉ sales_americas@idsglobal.com

IDIS Europe

1000 Great West Road
Brentford, Middlesex
TW8 9HH
The United Kingdom

☎ +44 (0)203 657 5678
☎ +44 (0)203 697 9360
✉ uksales@idsglobal.com

IDIS BeneLux

De Slof 9
5107 RH
Dongen
The Netherlands

☎ +31 (0)162 387247
☎ +31 (0)162 311915
✉ sales@bnl.idsglobal.com

IDIS Middle East

P.O. Box 341037
D-308, DSO HQ Bldg
Dubai Silicon Oasis
Dubai, UAE

☎ +971 4 501 5434
☎ +971 4 501 5436
✉ sales_mena@idsglobal.com



For more information, please visit
www.idsglobal.com