áudio e vídeo pro

RMS 5533

User Manual

- Manual #: RGB-RD-UM-R5533 E001
- Revision: V1.4

RGBlink

RMS 5533·User Manual

Thank you for choosing our products!
In order to allow you to learn how to use the Rack Mount Monitor quickly, we bring you the detailed user's guide. You can read the introduction and directions before using the Rack Mount Monitor, please read all the information we provide carefully to use our products correctly.

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Safe Operation Summary

The general safety information in this summary is for operating personnel.

Do Not Remove Covers or Panels

There are no user-serviceable parts within the unit. Removal of the rear panel will expose dangerous voltages. To avoid personal injury, do not remove the rear panel. Do not operate the unit without the panel installed.

Use the Proper Properly

This product is intended to operate from a power source that will not apply more than 230 volts rms between the supply conductors or between both supply conductor and ground. A protective ground connection by way of grounding conductor in the power cord is essential for safe operation.

Ground the Product Properly

This product is grounded through the grounding conductor of the power cord. To avoid electrical shock, plug the power cord into a properly wired receptacle before connecting to the product input or output terminals. A protective-ground connection by way of the grounding conductor in the power cord is essential for safe operation.

Use the Proper Power Cord

Use only the power cord and connector specified for your product. Use only a power cord that is in good condition. Refer cord and connector changes to qualified service personnel.

Use the Proper Fuse

To avoid fire hazard, use only the fuse having identical type, voltage rating, and current rating characteristics. Refer fuse replacement to qualified service personnel.

Do Not Operate in Explosive Dangerous Atmospheres

To avoid explosion, do not operate this product in an explosive atmosphere.

Terms and Equipment Mark in This Manual

WARNING

Highlight an operating procedure, practice, condition, statement, etc, which, if not strictly observed, could result in injury or death of personnel.

Note

Highlights an essential operating procedure, condition or statement.

CAUTION

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Amendment Record

The table below lists the changes to the Rack Mount Monitor User Manual.

Format	Time	ECO#	Description	Principal
1.0	2012-11-02	0000	Release	BIN
1.1	2013-01-31	0001	Interface Upgrade	Vira
1.2	2015-01-15	0002	Update the menu and SDI module	Vira
1.3	2015-08-14	0003	1. Add the “Hardware Installation”. 2. Add the electrical level of tally light. 3. Update the company logo.	Vira
1.4	2015-10-27	0004	1. Update the product picture. 2. Update the back panel. 3. Update the dimension drawing.	Vira

CONTENT

1. Brief Introduction

This chapter is designed to introduce you to the RMS 5533 User Manual. It covers:

- Chapter Structure
- Manual Usage
- Terms and Definitions
- Product Feature

Chapter Structure

The following chapters provide instructions for all aspects of RMS 5533 operations:

Manual Usage

Following are important tips for streamlining your use of this User's Guide in its electronic "PDF" form.

Navigation

Use Acrobat Reader's "bookmarks" to navigate to the desired location. All chapter files have the same bookmark structure for instant navigation to any section. Please note:

- Extensive hyperlinks are provided within the chapters.
- Use Acrobat's "**Go to Previous View**" and "**Return to next View**" buttons to trace your complete navigational path.

- Use the "**Previous Page**" and "**Next Page**" buttons to go to the previous or next page within a file.
- Use Acrobat's extensive search capabilities, such as the "**Find**" tool and "**Search Index**" tool to perform comprehensive searches as required.

Catalogue and Index

Use the Table of Contents bookmarks to navigate a desired topic. Click any item to instantly jump to that section of the guide. You can also use the **Index** to jump to specific topics within a chapter. Each page number in the **Index** is a hyperlink.

Terms and Definitions

The following terms and definitions are used throughout this guide;

- **"ASCII":** American Standard for Information Interchange. The standard code consisting of 7-bit coded characters (8 bits including parity check) used to exchange information between data processing systems, data communication systems, and associated equipment. The ASCII set contains control characters and graphic characters.

- **"Aspect ratio":** The relationship of the horizontal dimension to the vertical dimension of an image. In viewing screens, standard TV is 4:3, or 1.33:1; HDTV is 16:9, or 1.78:1. Sometimes the ":1" is implicit, making TV = 1.33 and HDTV = 1.78.

- **"AV":** Audio visual or audio video.

- A **"Background"** is an unscaled source, typically originating from a computer. A background source appears at the system's lowest priority — visually in back of all other sources.

- **"Baudrate"：** Named of J.M.E. Baudot, the inventor of the Baudot telegraph code. The number of the electrical oscillations per second, called baud rate. Related to, but not the same as, transfer rate in bits per second (bps).

- **"Blackburst":** The video waveform without the video elements. It includes the vertical sync, horizontal sync, and the chroma burst information. Blackburst is used to synchronize video equipment to align the video output. One signal is normally used to set up an entire video system or facility. Sometimes it is called House sync.

- **"BNC":** Bayonet Neill-Concel man. A cable connector used extensively in television and named for its inventors. A cylindrical bayonet connector that operates with a twist-locking motion. To make the connection, align the two curved grooves in the collar of the male connector with the two projections on the outside of the female collar, push, and twist. This allows the connector to lock into place without tools.

- **"Brightness":** Usually refers to the amount or intensity of video light produced on a screen without regard to color. Sometimes called "black level.

- "**CAT 5**"**:** Category 5. Describes the network cabling standard that consists of four unshielded twisted pairs of copper wire terminated by RJ-45 connectors. CAT 5 cabling supports data rates up to 100 Mbps. CAT 5 is based on the EIA/TIA 568 Commercial Building Telecommunications Wiring Standard.

- **"Color bars":** A standard test pattern of several basic colors (white, yellow, cyan, green, magenta, red, blue, and black) as a reference for system alignment and testing. In NTSC video, the most commonly used color bars are the SMPTE standard color bars. In PAL video, the most commonly used color bars are eight full field bars. In the

computer, the most commonly used color bars are two rows of reversed color bars.

- **"Color burst":** In color TV systems, a burst of sub-carrier frequency located on the back porch of the composite video signal. This serves as a color synchronizing signal to establish a frequency and phase reference for the chrome signal. Color burst is 3.58 MHz for NTSC and 4.43 MHz for PAL.

- **"Color temperature":** The color quality, expressed in degrees Kelvin (K), of a light source. The higher the color temperature, the bluer the light. The lower the temperature, the redder the light. Benchmark color temperature for the A/V industry includes 5000°K, 6500°K, and 9000°K.

- **"Contrast ratio":** The radio of the high light output level divided by the low light output level. In theory, the contrast radio of the television system should be at least 100:1, if not 300:1. In reality, there are several limitations. In the CRT, light from adjacent elements contaminate the area of each element. Room ambient light will contaminate the light emitted from the CRT. Well-controlled viewing conditions should yield a practical contrast ratio of 30:1 to 50:1.

- **"DVI":** Digital Visual Interface. The digital video connectivity standard that was developed by DDWG (Digital Display Work Group). This connection standard offers two different connectors: one with 24 pins that handles digital video signals only, and one with 29 pins that handles both digital and analog video.

- **"EDID":** Extended Display Identification Data – EDID is a data structure used to communicate video display information, including native resolution and vertical interval refresh rate requirements, to a source device. The source device will then output the optimal video format for the display based on the provided EDID data, ensuring proper video image quality. This communication takes place over the DDC – Display Data Channel.

- **"Ethernet":** A Local Area Network (LAN) standard officially known as IEEE 802.3. Ethernet and other LAN technologies are used for interconnecting computers, printers, workstations, terminals, servers, etc. within the same building or campus. Ethernet operates over twisted pair and over coaxial cable at speeds starting at 10Mbps. For LAN interconnectivity, Ethernet is physical link and data link protocol reflecting the two lowest layers of the OSI Reference Model.

- **"Frame":** In interlaced video, a frame is one complete picture. A video frame is made up of two fields, or two sets of interlaced lines. In a film, a frame is one still picture of a series that makes up a motion picture.

- **"Gamma":** The light output of a CRT is not linear with respect to the voltage input. The difference between what you should have and what is actually output is known as gamma.

- **"HDMI" - High – Definition Multimedia Interface:** An interface used primarily in consumer electronics for the transmission of

uncompressed high definition video, up to 8 channels of audio, and control signals, over a single cable. HDMI is the de facto standard for HDTV displays, Blu-ray Disc players, and other HDTV electronics. Introduced in 2003, the HDMI specification has gone through several revisions.

- **"HDSDI":** The high-definition version of SDI specified in SMPTE-292M. This signal standard transmits audio and video with 10 bit depth and 4:2:2 color quantization over a single coaxial cable with a data rate of 1.485 Gbit/second. Multiple video resolutions exist including progressive 1280x720 and interlaced 1920x1080 resolutions. Up to 32 audio signals are carried in the ancillary data.

- **"JPEG" (Joint photographic Expects Group):** Commonly used method of lost compression for photographic images using a discreet cosine transfer function. The degree of compression can be adjusted, allowing a selectable tradeoff between storage size and image quality. JPEG typically achieves 10:1 compression with little perceptible loss in image quality. Produces blocking artifacts.

- **"MPEG":** Motion Picture Expect Group. A standard committee under the auspices of the International Standards Organization working on algorithm standards that allow digital compression, storage and transmission of moving image information such as motion video, CD-quality audio, and control data at CD-ROM bandwidth. The MPEG algorithm provides inter-frame compression of video images and can have an effective compression rate of 100:1 to 200:1.

- **"NTSC":** The color video standard used in North America and some other parts of the world created by the National Television Standards Committee in the 1950s. A color signal must be compatible with black-and-white TV sets. NTSC utilizes an interlaced video signals, 525 lines of resolution with a refresh rate of 60 fields per second (60 Hz). Each frame is comprised of two fields of 262.5 lines each, running at an effective rate of 30 frames per second.

- **"PAL":** Phase Alternate Line. A television standard in which the phase of the color carrier is alternated from line to line. It takes four full pictures (8 fields) for the color-to-horizontal phase relationship to return to the reference point. This alternation helps cancel out phase errors. For this reason, the hue control is not needed on a PAL TV set. PAL, in many transmission forms, is widely used in Western Europe, Australia, Africa, the Middle East, and Micronesia. PAL uses 625-line, 50-filed (25 fps) composite color transmission system.

- **"Operator":** Refers to the person who uses the system.

- **"PIP":** Picture-in-Picture. A small picture within a larger picture created by scaling down one of the images to make it smaller. Each picture requires a separate video source such as a camera, VCR, or computer. Other forms of PIP displays include Picture-by-Picture (PBP) and Picture-with-Picture (PWP), which are commonly used with 16:9 aspect display devices. PBP and PWP image formats require a

separate scaler for each video window.

- **"Polarity":** The positive and negative orientation of a signal. Polarity usually refers to the direction or a level with respect to a reference (e.g. positive sync polarity means that sync occurs when the signal is going in the positive direction).

- **"RJ-45":** Registered Jack-45. A connector similar to a telephone connector that holds up to eight wires used for connecting Ethernet devices.

- "**RS-232":** An Electronic Industries Association (EIA) serial digital interface standard specifying the characteristics of the communication path between two devices using either DB-9 or DB-25 connectors. This standard is used for relatively short-range communication and does not specify balanced control lines. RS-232 is a serial control standard with a set number of conductors, data rate, word length, and type of connector to be used. The standard specifies component connection standards with regard to the computer interface. It is also called RS-232-C, which is the third version of the RS-232 standard, and is functionally identical to the CCITT V.24 standard.
- **"Saturation":** Chroma, chroma gain. The intensity of the color, or the extent to which a given color in any image is free from white. The less white in a color, the truer the color or the greater its saturation. On a display device, the color control adjusts the saturation. Not to be confused with the brightness, saturation is the amount of pigment in a color, and not the intensity. Low saturation is like adding white to the color. For example, a low-saturated red looks pink.

- **"Scaling":** A conversion of a video or computer graphic signal from a starting resolution to a new resolution. Scaling from one resolution to another is typically done to optimize the signal for input to an image processor, transmission path or to improve its quality when presented on a particular display.

- **"SDI":** Serial Digital Interface. The standard based on a 270 Mbps transfer rate. This is a 10-bit, scrambled, polarity independent interface with common scrambling for both component ITU-R 601 and composite digital video and four channels of (embedded) digital audio.

- **"Seamless Switching":** A feature found on many video switchers. This feature causes the switcher to wait until the vertical interval to switch. This avoids a glitch (temporary scrambling) which normally is seen

when switching between sources.

- **"SMPTE":** Society of Motion Picture and Television Engineers. A global organization, based in the United States that sets standards for base band visual communications. This includes film as well as video and television standards.

- **"S-video":** A composite video signal separated into the luma ("Y" is for luma, or black and white information; brightness) and the chroma ("C" is an abbreviation for chroma, or color information).

- **"Sync":** Synchronization. In video, sync is a means of controlling the timing of an event with respect to other events. This is accomplished with timing pulses to insure that each step in a process occurs at the correct time. For example, horizontal sync determines exactly when to begin each horizontal scan line. Vertical sync determines when the image is to be refreshed to start a new field or frame. There are many other types of sync in video system.(Also known as "sync signal" or "sync pulse.")

- **"TCP/IP":** Transmission Control Protocol/Internet Protocol. The communication protocol of the Internet. Computers and devices with direct access to the Internet are provided with a copy of the TCP/IP program to allow them to send and receive information in an understandable form.

- **"USB":** Universal Serial Bus. USB was developed by seven PC and telecom industry leaders (Compaq, DEC, IBM, Intel, Microsoft, NEC, and Northern Telecom). The goal was easy plug-and-play expansion outside the box, requiring no additional circuit cards. Up to 127 external computer devices may be added through a USB hub, which may be conveniently located in a keyboard or monitor. USB devices can be attached or detached without removing computer power. The number of devices being designed for USB continues to grow, from keyboards, mice, and printers to scanners, digital cameras, and ZIP drives.

- **"VESA":** Video Electronics Standards Association. A nonprofit number organization dedicated to facilitating and promoting personal computer graphics through improved standards for the benefit of the end-user. www.vesa.org.

- **"VGA":** Video Graphics Array. Introduced by IBM in 1987, VGA is an

analog signal with TTL level separate horizontal and vertical sync. The video outputs to a 15-pin HD connector and has a horizontal scan frequency of 31.5 kHz and vertical frequency of 70 Hz (Mode 1, 2) and 60 Hz (Mode 3). The signal is non-interlaced in modes 1, 2, and 3 and interlaced when using the 8514/A card (35.5 kHz, 86 Hz) in mode 4. It has a pixel by line resolution of 640×480 with a color palette of 16 bits and 256,000 colors.

- **"YCrCb":** Used to describe the color space for interlaced component video.

- **"YPbPr":** Used to describe the color space for progressive-scan (non-interlaced) component video.

Product Feature

- **High Resolution LCD Panel**

Consists of three 5-inch, 16:9, 800X480 LCD panel, with wide viewing angle and 19-inch 3U rack mount.

- **Underscan and Overscan**

Switch between underscan and overscan mode.

- **Pixel to pixel zoom-in**

The real time zoom-in function is to enlarge to the input video as pixel to pixel from the center.

- **Safe area**

The safe area is offered to mark an area of picture that can be seen on the television screens.

- **Multi Input/Output**

Support SDI, DVI, VGA and CVBS loop out.

- **3G-SDI Input**

Accept 3G/HD/SD-SDI input.

- **SDI embedded audio output**

Convert SDI embedded audio to analog and output via 3.5mm earphone.

- **DVI embedded audio output**

Convert DVI embedded audio to analog and output via 3.5mm earphone.

- **Image flip**

Rotate the image by 180°.

- **User defined function keys**

There are 2 function keys on the monitor front panel, and users could define the functions to achieve shortcut.

- **User defined video title**

User can edit a video title for the current camera, and the title will display on the top of screen.

2. Panel Instruction

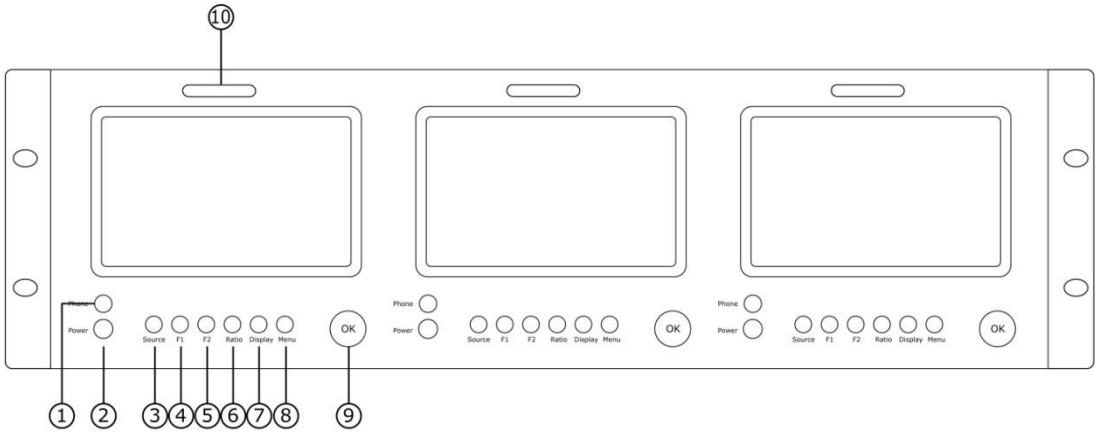
In This Chapter

This chapter provides detailed information about the RMS 5533 panel. The following topics are discussed:

- RMS 5533 Front Panel
- RMS 5533 Back Panel

RMS 5533 Front Panel

Front view:



1. Phone

3.5mm earphone jack, for HDMI (supported by DVI input) and SDI embedded audio monitoring.

2. Power

Power on/off indicator. Plug in the power cord, push the “Power” button and the power indicator is turned on and after 10 seconds, the monitor will be switched on and get into working status.

Push the “Power” button again, the indicator is turned off and monitor is switched off.

The monitor will memory the state before shutdown, and will keep the state when start the computer next time.

Note

Disconnect with power cable if the monitor will not be used for a period of time.

3. Source

Input signal selection. Push the ”Source” button and push "OK" knob to select the input video signal: Video, DVI, VGA, USB and SDI (SDI is optional module).

4. F1

User defined function key 1.

5. F2

User defined function key 2.

6. Ratio

Aspect ratio. Push the “Ratio” button, user can choose the ration between 16:9 and 4:3.

7. Display

Display current settings. Push the “Display” button to display marker, title and the current input signal information.

8. Menu

9. OK

Select and apply. Push the "OK" knob to adjust settings and push to apply.

Note

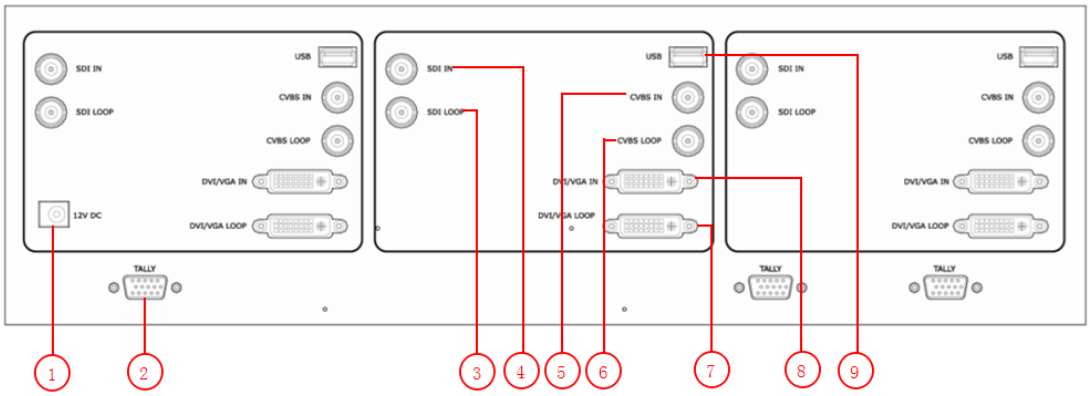
Out of menu system, directly push "OK" rotary to adjust volume.

10. TALLY Light

Red, Green and Yellow 3-color TALLY indicator.

RMS 5533 Back Panel

Back view:



NO.	INTERFACE	NO.	INTERFACE
1	Power	6	CVBS Loop Out
2	TALLY Control Port	7	DVI/VGA Loop Out
3	SDI Loop Out	8	DVI/VGA Input
4	SDI Input	9	USB Port
5	CVBS Input		

1: Power

DC 12V IN: Connect with DC12V power adapter. Power polarity is: negative inside and cathode outside.

2: TALLY Control Port

TALLY control port (RS-232). The electrical level is as follows:

Electrical level: ≤5V	
Voltage	**Tally light condition**
≤0.5V	ON
≥1.3V	OFF
0.5V-1.3V	Indeterminate state

3: SDI Loop Out

SDI LOOP: Standard BNC connector.

2. Panel Instruction

RMS 5533 Back Panel

4: SDI Input

SDI IN: Standard BNC Connector.

5: CVBS Input

CVBS IN: Composite video input (BNC connector).

6：CVBS Loop Out

CVBS LOOP: Composite video loop out (BNC connector, it is valid only when switch the signal to AV channel).

7: DVI/VGA Loop Out

DVI/VGA-LOOP: DVI/VGA Loop out.

Note

Via  to output VGA signal when VGA loop out.

8: DVI/VGA Input

DVI/VGA IN: DVI/VGA input.

Note

Via  to input VGA signal.

9: USB Port

USB Port: Used for software upgrade.

Note

The interface functionality of the three units is the same.

2. Panel Instruction

RMS 5533 Back Panel

- **Input formats**

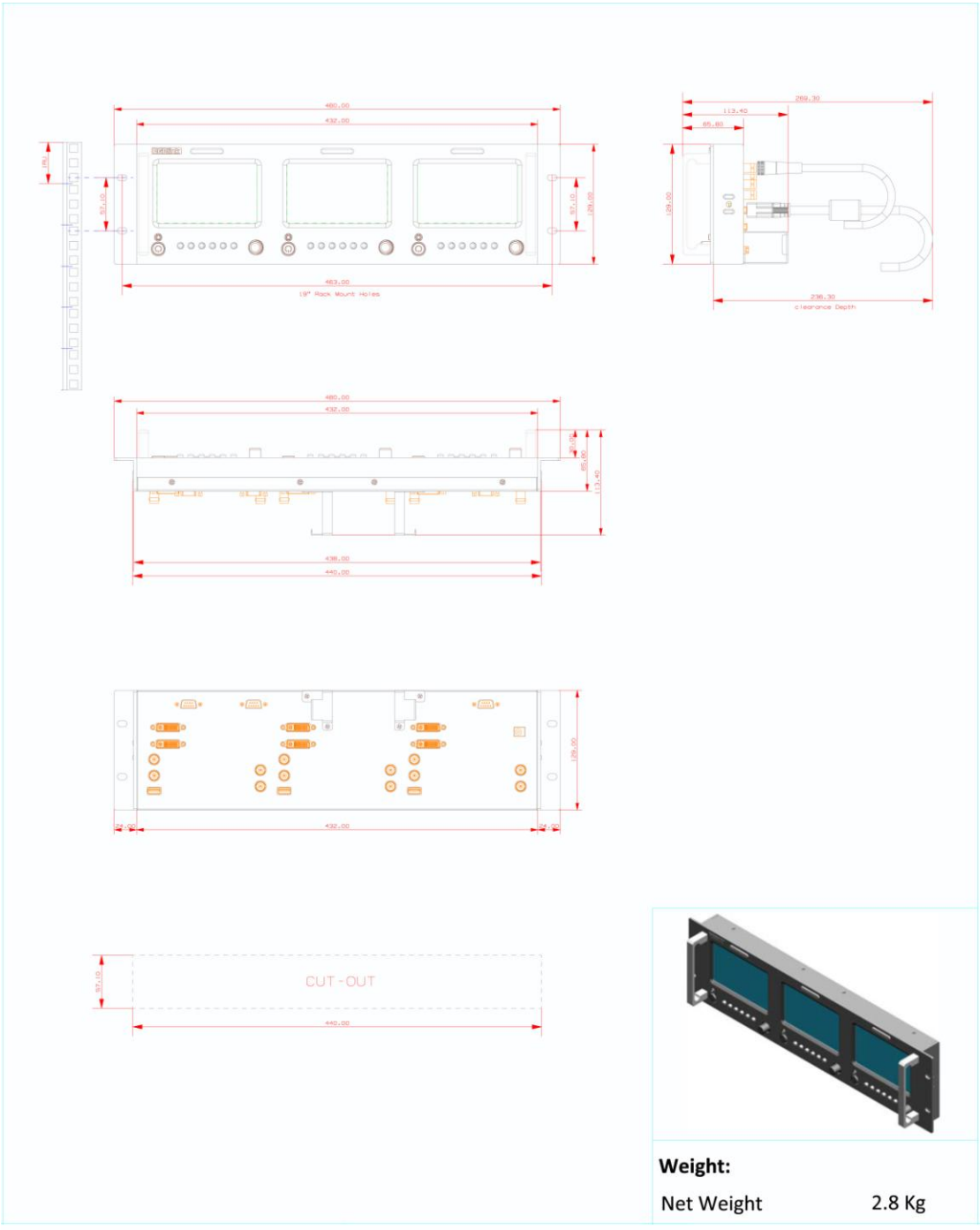
Input		Supported formats
CVBS		PAL/NTSC
DVI		480i / 576i / 480p / 576p
		1080i (60 / 59.94 / 50)
		720p (60 / 59.94 / 50)
		1080p (60 / 59.94 / 50 / 30 / 29.97 / 25 / 24 / 23.98)
VGA		800x600@60Hz
		1024x768@60Hz
		1024x768@75Hz
		1280x720@60Hz
		1280x768@60Hz
		1280x800@60Hz
		1280x1024@60Hz
		1360x768@60Hz
		1366x768@60Hz
		1400x1050@60Hz
		1440x900@60Hz
		1600x1200@60Hz
		1680x1050@60Hz
		1920x1080@60Hz
SDI	SMPTE-425M	1080p (60 / 59.94 / 50)
	SMPTE-274M	1080i (60 / 59.94 / 50)
		1080p (30 / 29.97 / 25 / 24 / 23.98)
	SMPTE-296M	720p (60 / 59.94 / 50)
	SMPTE-125M	480i (59.94)
	ITU-R BT.656	576i (50)

3. Hardware Installation

In This Chapter

This chapter provides comprehensive installation instruction for RMS 5533 hardware:

Following is the size of RMS 5533 for your reference:



Weight:

Net Weight	2.8 Kg

Safety Precautions

For all RMS 5533 processor installation procedures, please observe the following important safety and handling rules to avoid damage to yourself and the equipment.

- To protect users from electric shock, ensure that the chassis connects to earth via the ground wire provided in the AC power Cord.
- The AC Socket-outlet should be installed near the equipment and be easily accessible.

Unpacking and Inspection

Before opening RMS 5533 processor shipping box, inspect it for damage. If you find any damage, notify the shipping carrier immediately for all claims adjustments. As you open the box, compare its contents against the packing slip. If you find any shortages, contact your sales representative.

Once you have removed all the components from their packaging and checked that all the listed components are present, visually inspect the system to ensure there was no damage during shipping. If there is damage, notify the shipping carrier immediately for all claims adjustments.

Site Preparation

The environment in which you install your RMS 5533 should be clean, properly lit, free from static, and have adequate power, ventilation, and space for all components.

4. Menu Operation

In This Chapter

This chapter provides menu operation about the RMS 5533. Including: how to be visited, the available functions, and the description of menu item.

The following topics are discussed:

- MENU
- System Submenu
- Picture Submenu
- OSD Submenu
- Display Submenu
- F Key Submenu
- VGA Setup Submenu

MENU

Language setting

The language in menu is optional, it includes Chinese, English, etc. English is the default language.

Following is the operation for how to change English to Chinese, and the opposite applies as well.

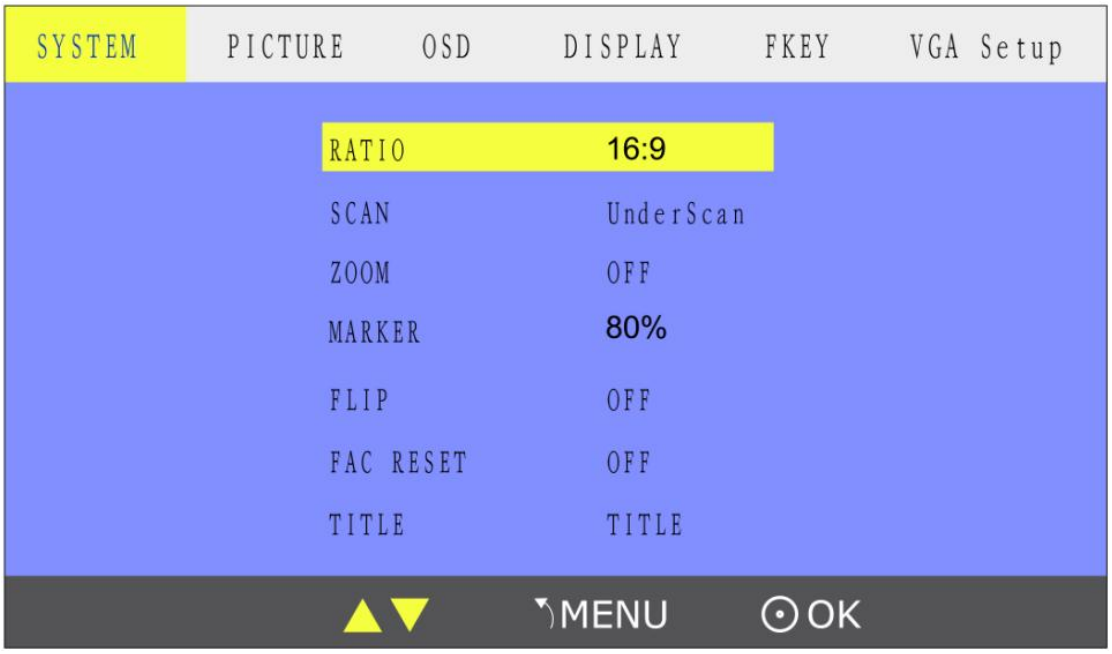
1. Push the “Menu” button to enter to menu.
2. Push the “OK” knob to select “OSD” and push “OK” knob to ensure.
3. Enter to “OSD” to select “LANGUAGE” and push “OK” to ensure.
4. Push the “OK” knob to change “ENGLISH” to “CHINESE”.
5. Push the “Menu” button to return to menu system.

Submenu setting

1. Push the “Menu” button and it will display menu system.
2. Push the “OK” knob to select an item. The selected item will be highlighted display yellow.

   Push “OK” knob (select yellow) to enter the selected item, push “OK” knob to select the parameter.
3. Under menu system, push the “Menu” button to back to previous menu. Push the “Menu” button again to exit the menu.

System Submenu



The System Submenu includes:

1. RATIO: Aspect ratio has two options, 16:9 and 4:3.
2. SCAN: “Underscan” / “Overscan” selection.
3. ZOOM: “OFF”, “Zoom1” and “Zoom2” selection.

   Zoom1: Canon DSLR scale zoom-in.

   Zoom2: Pixel to Pixel zoom-in.
4. MARKER: Select and set the safe area scale from 80%, 85%, 90% and 95%.
5. FLIP: Select “ON” and push ”OK” knob to flip the picture by 180°.
6. RESET: Select “OK” to recover all to factory setting.
7. TITLE: User defined title.

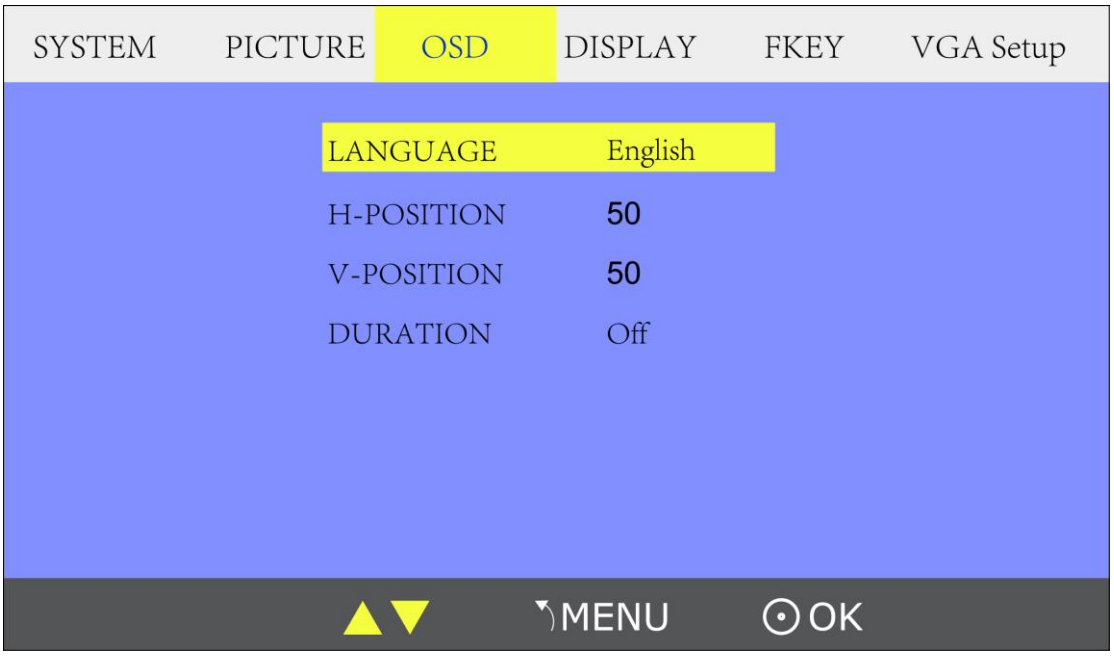
   Yellow is the selected letters, push “OK” knob to select the letters, and push "OK" to input. Max 10 letters are supported. After setting, push "OK" to ensure, the system will display the user defined title.

Picture Submenu

The Picture Submenu includes:

1. CONTRAST: The adjustment range is 0~100.
2. BRIGHTNESS: The adjustment range is 0~100.
3. SATURATION: The adjustment range is 0~100.
4. SHARPNESS: The adjustment range is 0~100.
5. COLOR TEMP: Color temperature, cool selection, normal, warm, user defined.
6. PIC MODE: User defined and preset picture modes, vivid selection, standard, soft, user defined.
7. HUE: 0~100（Only available under CVBS NTSC input, other signal display gray and can not be adjusted).

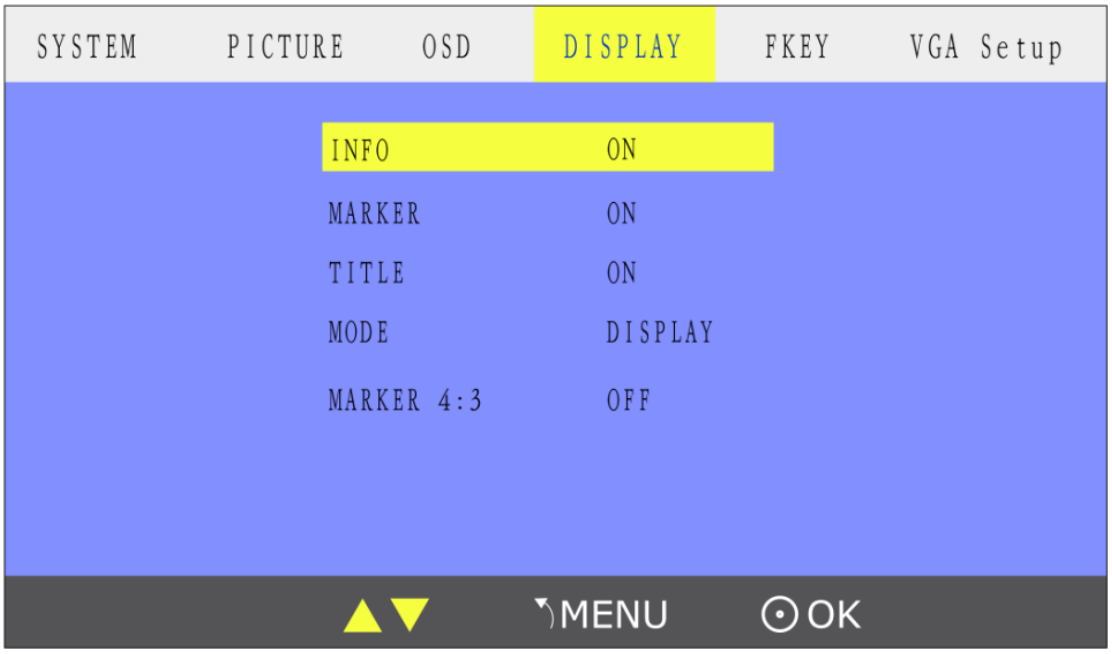
OSD Submenu



The OSD Submenu includes:

1. LANGUAGE: Can choose Chinese or English.
2. H-POSITION: Adjust the horizontal position of the menu window, the adjustment range is 0~100.
3. V-POSITION: Adjust the vertical position of the menu window, the adjustment range is 0~100.
4. DURATION: Menu timeout setting, the adjustment range is 5-60s, choose “Off”, it will automatically exit if no operation, system default “Off”.

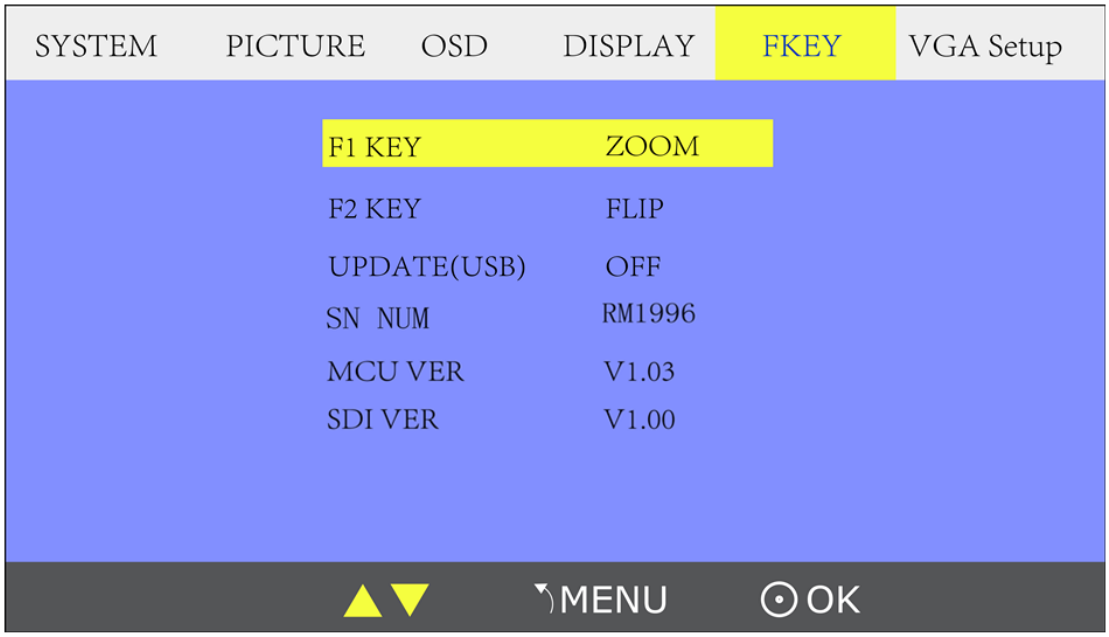
Display Submenu



Enter to “Display” submenu, to set the following items:

1. INFO: Select “ON”, screen will display “Input Format”, “RATIO”, ”SCAN”, “MARKER”, “FLIP”, ”ZOOM” at the up-left.
2. MARKER: Safe area. Select “ON”, screen will display the safe area, and select “OFF” to close it.
3. TITLE: User edited title.
4. MODE: ”DISPLAY” or “TP”. Select and press “DISPLAY”, screen will display the image. Select “TP” and press ”DISPLAY”, screen will display test pattern to check if LCD screen operate normally.
5. MARKER 4:3: The 4:3 scale mark on 16:9 image (only available under HD input).

F Key Submenu



Enter to “FKEY“ submenu, user defined F1/F2 functions.

The available function items are:

RATIO: Aspect ratio switch.

SCAN: Underscan / Overscan switch.

ZOOM: Picture Zoom-in.

FLIP: Image flip.

PIC MODE: Preset picture mode switch.

CLR TEMP: Color-temperature switch.

BW/COLOR: Color / Black & white switch.

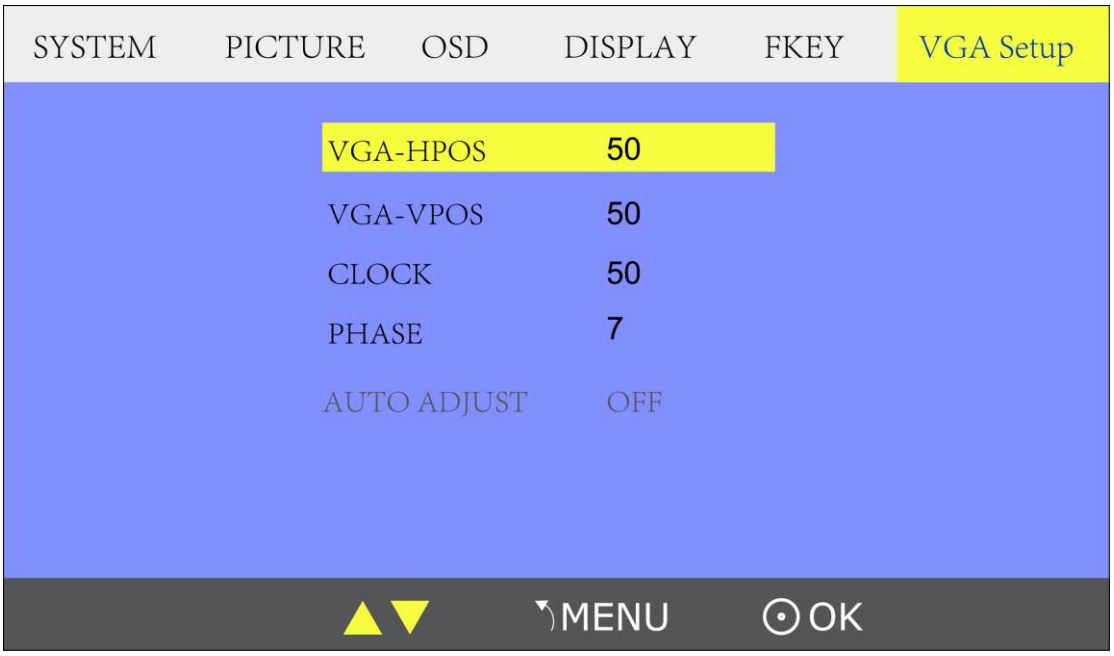
UPDATE (USB): Via USB input, enter to “Software Upgrade (USB)”, and select “ON” can achieve upgrade software.

SN NUM: Display the serial number (For read only).

Software Version: Display the current software version information. (For read only).

SDI Version: Display the current SDI version information. (For read only).

VGA Setup Submenu



Enter to “VGA Setup” submenu to adjust VGA-HPOS (0~100), VGA-VPOS (0~100), CLOCK (0~100), PHASE (0~100). Also can select “ON” at “AUTO ADJUST” to adjust when input VGA signal.

5. System Setup and Operation

In This Chapter

This chapter focuses on system setup and operation, mainly including the following contents:

- How to Turn on/off the Monitor
- How to Monitor the Audio
- How to Choose the Signal
- How to Use User Defined Function Key
- How to Display Aspect Ratio
- How to Display Current Settings

How to Turn on/off the Monitor

1. Plug in the power cord.
2. Push the “Power” button, the button light is on, about 10 seconds later, the monitor begins to work.
3. Push the “Power” button again, the button light is off, the monitor is in standby state.
4. Disconnect the power, the monitor is turned off.

The monitor will memory the state before shutdown, and will keep the state when startup the computer next time.

Note

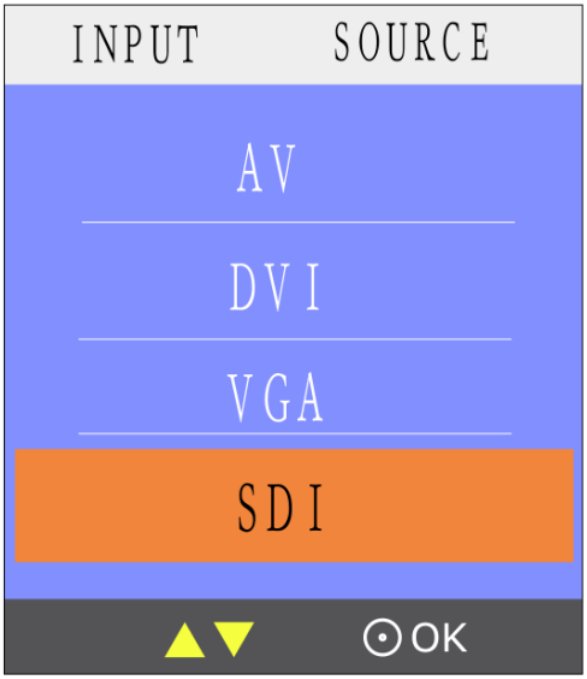
Disconnect with power cable if the monitor will not be used for a period of time.

How to Monitor the Audio

First, ensure the monitor power on and in normal operation.

Specific operations as follows:

1. Push the “Source” button, and push “OK” knob to choose signal.



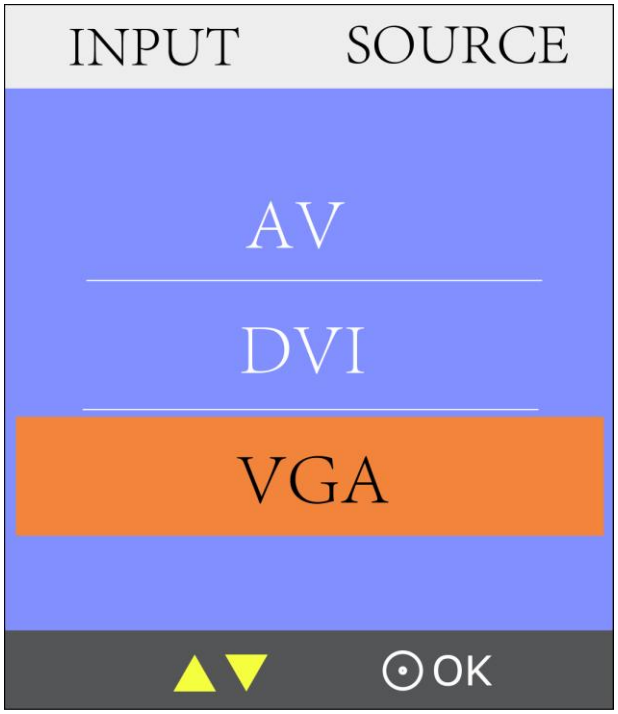
2. Push the “OK” knob to ensure the selected signal, can monitor HDMI (supported by DVI input) or SDI embedded audio.
3. Push the “OK” button again, (or wait for about 5 seconds when out of menu system), push the “OK” knob to choose the desired volume.

How to Choose the Signal

First, ensure the monitor power on and in normal operation.

Specific operations as follows:

1. Push the “Source” button, and LCD screen displays as follows:



2. Push “OK” rotary to choose signal, AV, DVI, VGA, SDI (SDI is optional module) are available.

3. Push the “OK” button to ensure the selected signal.

How to Use User Defined Function Key

First, ensure the monitor power on and in normal operation.

Specific operations as follows:

1. Push the “Menu” button, and enter to “Menu” system. Rotate the knob, and choose “FKEY” option, push the knob to confirm:

2. Choose “F1 KEY” or “F2 KEY”, push the “OK” button to ensure.

3. Push the “OK” button to choose items, push the “OK” button to confirm.

How to Display Aspect Ratio

First, ensure the monitor power on and in normal operation.

Specific operations as follows:

1. Push the “Ratio” button.
2. Push the “OK” button to choose the aspect ratio, aspect ratio has two options, 16:9 and 4:3.

3. Push the “OK” button to ensure.

How to Display Current Settings

1. First, ensure the monitor power on and in normal operation.
2. Push the “DISPLAY” button, the LCD screen displays the current input signal information, including:

   VGA

   RATIO

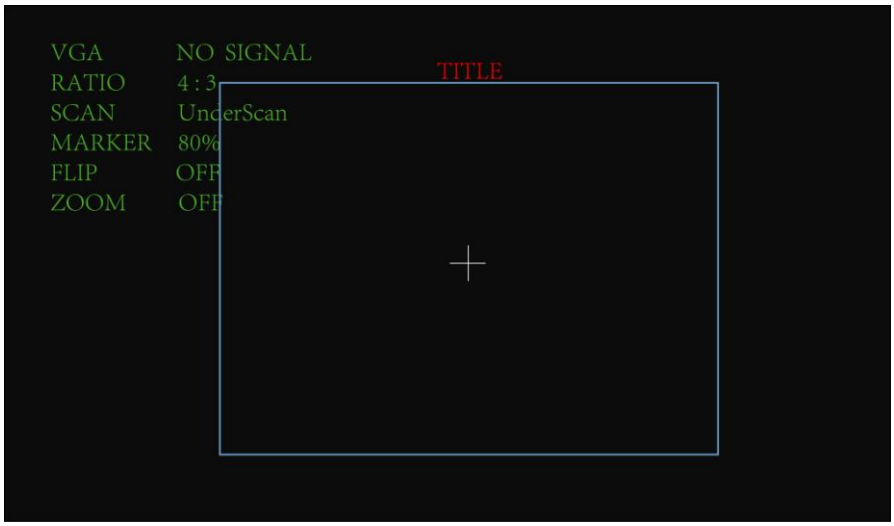
   SCAN

   MARKER

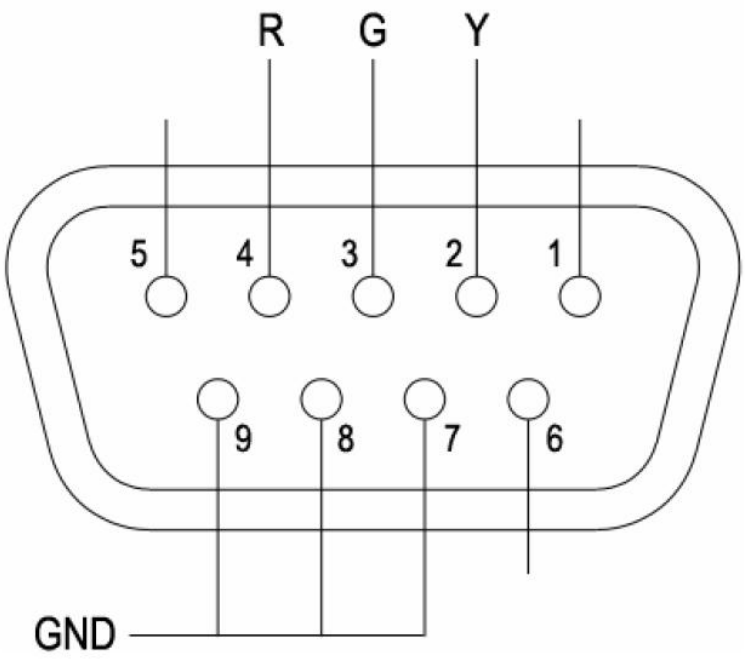
   FLIP

   ZOOM

   As shown below:



6. TALLY Light Operation



Terminal	1	2	3	4	5	6	7	8	9
Description		Y	G	R			GND	GND	GND

1. There are front TALLY lights on each of the display units, which can display RED, GREEN and YELLOW signals.

2. The TALLY light controlling port is the RS232 socket at the rear panel, and terminal description as above.

3. The RED light is on when connecting the terminal “R” with “GND”, and goes out when disconnecting.

4. The GREEN light is on when connecting the terminal “G” with “GND”, and goes out when disconnecting.

5. The YELLOW light is on when connecting the terminal “Y” with “GND”, and goes out when disconnecting.

A. Specification

LCD Performance		
Size		5.0 inches x3
Resolution		800xRGBx480
Color		4677 million colors
Aspect ratio		16:9 / 4:3
Brightness		350cd/m²
Contrast		500:1
Viewing angle		Horizontal /Vertical:140°/120°
Video Format		
CVBS		NTSC / PAL
SDI	SMPTE-425M	1080p (60 / 59.94 / 50)
	SMPTE-274M	1080i (60 / 59.94 / 50)
		1080p (30 / 29.97 / 25 / 24 / 23.98)
	SMPTE-296M	720p (60 / 59.94 / 50)
	SMPTE-125M	480i (59.94)
	ITU-R BT.656	576i (50)
DVI		480i / 576i / 480p / 576p
		1080i (60 / 59.94 / 50)
		720p (60 / 59.94 / 50)
		1080p (60 / 59.94 / 50 / 30 / 29.97 / 25 / 24 / 23.98)
VGA		800x600@60Hz
		1024x768@60Hz
		1024x768@75Hz
		1280x720@60Hz
		1280x768@60Hz
		1280x800@60Hz
		1280x1024@60Hz
		1360x768@60Hz
		1366x768@60Hz
		1400x1050@60Hz
		1440x900@60Hz
		1600x1200@60Hz
		1680x1050@60Hz
		1920x1080@60Hz

General	
Working voltage	DC 12V
Power consumption	≤24W
Working temperature	0℃~+40℃
Working humidity	10%~90%
Storage temperature	-15℃~+60℃
Storage humidity	10%~90%
Dimensions	480mmX129mmX113mm
Net weight	2.8kg

B. Contact Information

Warranty:

All video products are designed and tested to the highest quality standard and backed by a full 3 years parts and labor warranty. Warranties are effective upon delivery date to customer and are non-transferable. RGBlink warranties are only valid to the original purchase/owner. Warranty related repairs include parts and labor, but do not include faults resulting from user negligence, special modification, lighting strikes, abuse(drop/crush), and/or other unusual damages.

The customer shall pay shipping charges when unit is returned for repair.

Headquarter: S603~604 Weiye Building Torch Hi-Tech Industrial Development Zone Xiamen, Fujian Province, P.R.C

- **Tel:** +86-592-5771197
- **Fax:** +86-592-5771202
- **Customer Hotline:** 4008-592-315
- **Websites:**
  - ~ http://www.rgblink.com
  - ~ http://www.rgblink.cn
- **E-mail:** support@rgblink.com

C. RMS 5533 Optional Module: SDI Input Module

SDI is the optional module for RMS 5533 Rack Mount Monitor, it can be installed based on user's requirements.

The following is the picture of SDI input module:

Specific installation steps are as follows:

Step 1: Unscrew the screw above the rear panel with the screwdriver, take the rear panel apart.

Step 2: Take three circuit boards inside apart respectively, the red box in circuit board is the area for SDI input module installation.

Step 3: Install the SDI input module in the area as shown above, then tighten the screws, install it one by one.

Step 4: When SDI input module installation complete, assemble the three circuit boards.

Step 5: Lock the rear panel, adding SDI input module finished.