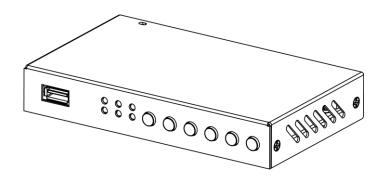
MSP 227



USER MANUAL

RGBlink



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Thank you for choosing our product!

This User Manual is designed to show you how to use this video processor quickly and make use of all the features. Please read all directions and instructions carefully before using this product.

Declarations

FCC/Warranty

Federal Communications Commission (FCC) Statement

This equipment has been tested and found to comply with the limits for a class A digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area may cause harmful interference, in which case the user will be responsible for correcting any interference.

Guarantee and Compensation

RGBlink provides a guarantee relating to perfect manufacturing as part of the legally stipulated terms of guarantee. On receipt, the purchaser must immediately inspect all delivered goods for damage incurred during transport, as well as for material and manufacturing faults. RGBlink must be informed immediately in writing of any complains.

The period of guarantee begins on the date of transfer of risks, in the case of special systems and software on the date of commissioning, at latest 30 days after the transfer of risks. In the event of justified notice of compliant, RGBlink can repair the fault or provide a replacement at its own discretion within an appropriate period. If this measure proves to be impossible or unsuccessful, the purchaser can demand a reduction in the purchase price or cancellation of the contract. All other claims, in particular those relating to compensation for direct or indirect damage, and also damage attributed to the operation of software as well as to other service provided by RGBlink, being a component of the system or independent service, will be deemed invalid provided the damage is not proven to be attributed to the absence of properties guaranteed in writing or due to the intent or gross negligence or part of RGBlink. If the purchaser or a third party carries out modifications or repairs on goods delivered by RGBlink, or if the goods are handled incorrectly, in particular if the systems are commissioned operated incorrectly or if, after the transfer of risks, the goods are subject to influences not agreed upon in the contract, all guarantee claims of the purchaser will be rendered invalid. Not included in the guarantee coverage are system failures which are attributed to programs or special electronic circuitry provided by the purchaser, e.g. interfaces. Normal wear as well as normal maintenance are not subject to the guarantee provided by RGBlink either.

The environmental conditions as well as the servicing and maintenance regulations specified in this manual must be complied with by the customer.

Operators Safety 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 top cover will expose dangerous voltages. To avoid personal injury, do not remove the top cover. Do not operate the unit without the cover installed.

Power Source

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.

Grounding the Product

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 Atmospheres

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

Installation Safety Summary

Safety Precautions

For all MSP 227 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 MSP 227 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 MSP 227 should be clean, properly lit, free from static, and have adequate power, ventilation, and space for all components.

Chapter 1 Your Product

1.1 In the Box





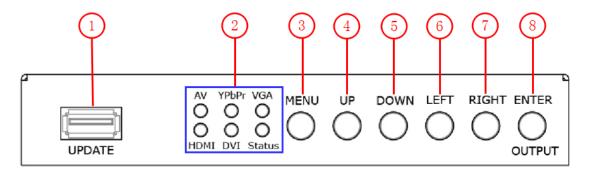




1.2 Product Overview

- MSP 227 converts any input of AV/YPbPr/VGA/DVI/HDMI to any output of AV/YPbPr/VGA/DVI/HDMI.
- Buttons on the front panel to setup and configure the MSP 227.
- When no Menu on the screen, "Enter/Output" button works as Output to select output port, such as AV, YPbPr, VGA, DVI or HDMI.
- Dial Switch on the bottom to set output format (1080p, 720p, etc.).
- Input/Output resolution: Up to 1920x1200/1920x1080/1600x1200.
- HDCP compliant.

1.2.1 Front Panel



USB Connectors

1 USB-A-USB
Used to software upgrade.

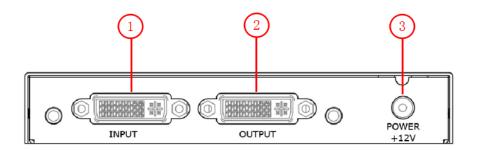
Indicators

2 Indicators
The indicator is on when the output format is AV, YPbPr, VGA, DVI or HDMI.

Illuminated Buttons

	MENU Button						
3	This button used for menu selections – refer to Understanding the MENU Structure.						
	Push the button for 3 seconds will lock the front panel.						
4	<u>UP Button</u>						
4	This button used for selecting the last option or increasing the settings.						
5	DOWN Button						
5	This button used for selecting the next option or decreasing the settings.						
6	LEFT Button						
0	This button used for selecting the left option.						
7	RIGHT Button						
,	This button used for selecting the right option.						
	ENTER/OUTPUT Button						
8	This button used for confirmation.						
	When no Menu on the screen, "Enter/Output" button works as Output to select						
	output port.						

1.2.2 Back Panel



Input Connectors

1

DVI-I - DVI

Standard DVI signals can input. Additionally this DVI port supports VGA/HDMI/YbPr/AV with the use of a DVI to VGA/HDMI/YPbPr adapter.

Output Connectors

DVI-I - DVI

2 Connect to the monitor or LED display which has DVI interface. (This connector does not support hotplug).

Power Connection

3 Power Input
Standard 12V/3A power supply.

1.2.3 Bottom Panel and Dial Switch

Dial Switch



12345678

Dial Switch

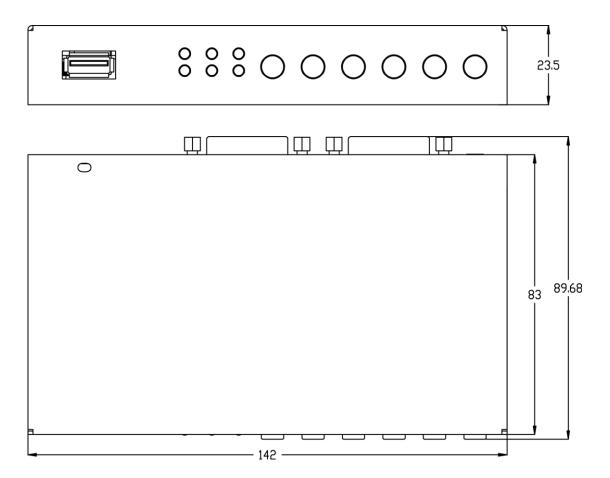
Used to set the output format. Please refer to the graph instruction on the bottom panel for specific operation.

Bottom Panel

	HDMI/DVI/VGA output					YPbPr output			AV output						
Switch Format			Sw		Switch		F		Switch	C+1					
1	2	3	4	Format				5	6	7	Format		8	Standard	
0	0	0	0	1920×1080	60HZ		- // V		0	0	1080F	60HZ	0	PAL	
0	0	0	1	1208x720	60HZ				0	0	1	702P	60HZ	1	NTSC
0	0	1	0	1024x768	60HZ										
0	0	1	1	1280×1024	60HZ	VGA		мі							
0	1	0	0	1360x768	60HZ	VGA									
0	1	0	1	1440x900	60HZ]									
0	1	1	0	1600x1200	60HZ	1	HDMI								
0	1	1	1	1680×1050	60HZ		/DVI	2223		222.20	100000000000000000000000000000000000000				
1	0	0	0	1920×1080	50HZ			reserved		reserved		reserved	reserved		
1	0	0	1	1280x720	50HZ										
1	0	1	0	1280×800	60HZ										
1	0	1	1	1360x768	60HZ										
1	1	0	0	1400×1050	60HZ										
1	1	0	1	1920×1200	60HZ										

1.2.4 Dimension

Following is the dimension of MSP 227 for your reference:



Chapter 2 Installing Your Product

2.1 Plugging in Signals

Connect signals to the product (ensure all devices are powered off first). Tighten connector screws/locks where provided.



2.2 Plugging in Main Power

Connect AC power cord to device and plug into wall socket.

2.3 Turning on Your Product

Turn on power at wall socket and the device will get into working status.

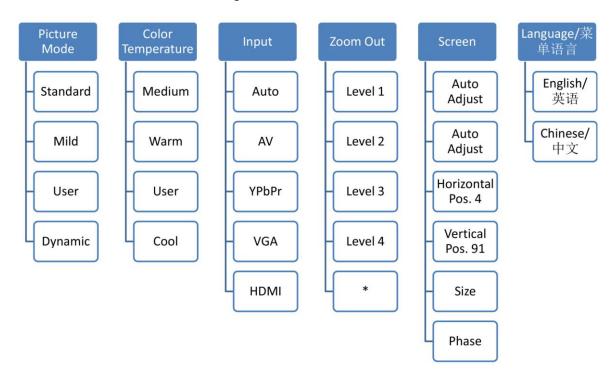
Chapter 3 Using Your Product

3.1 Using the MENU Button

- 1. Connect one end of the DVI cable to the DVI output of MSP 227, and the other end to the DVI input of the display, turn on the power for the display and MSP 227.
- 2. Push the "MENU" button and enter to the menu items.
- 3. Push the "UP", "DOWN", "LEFT" and "RIGHT" button to select the menus.
- 4. Push the "ENTER/OUTPUT" button to select the menu or settings.
- 5. Push the "MENU" button to return to the main menu.
- 6. All the menus and operations are shown on the display.

3.2 Understanding the MENU Structure

The MENU structure is shown in the figure below:



3.3 Using the Menu

3.3.1 Understanding the Main Menu

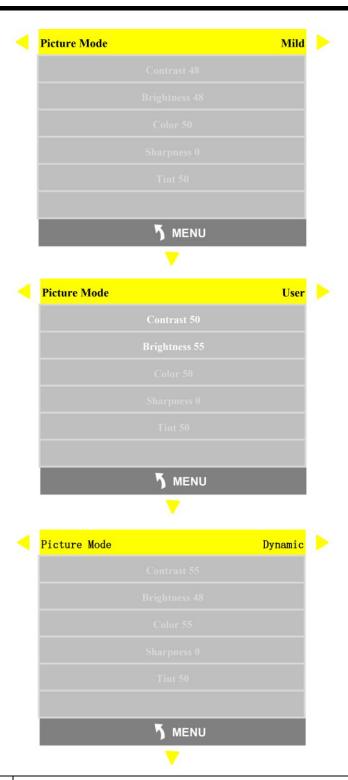
Push the [MENU] button in the default state, the display will show the main menus as below:



There are 6 menu items in the main menu, and display in 1 page. Push the [UP/DOWN] button to select the menu items, and push the [ENTER/OUTPUT] button to confirm. If push the [MENU] button, the OLED display will return to the last level menu.

3.3.2 Picture Mode





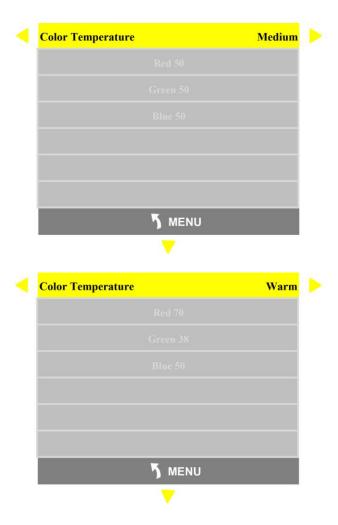
	Standard Mode
	Default Contrast 50, Brightness 55, Color 50, Sharpness 0 and Tint 50 in
	standard mode. No setup required.
Picture Mode	Mild
	Default Contrast 48, Brightness 48, Color 50, Sharpness 0 and Tint 50 in
	mild mode. No setup required.
	<u>User</u>

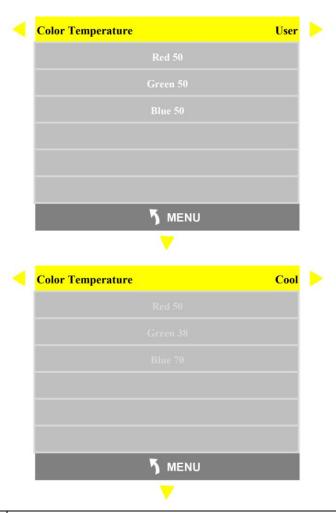
Default Color 50, Sharpness 0 and Tint 50 in user mode. User can set the Contrast and Brightness.

Dynamic

Default Contrast 55, Brightness 48, Color 55, Sharpness 0 and Tint 50 in dynamic mode. No setup required.

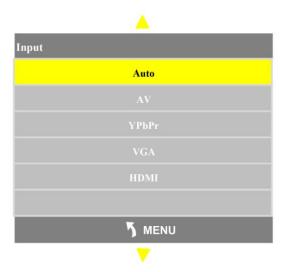
3.3.3 Color Temperature





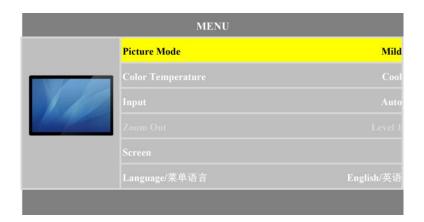
	<u>Medium</u>						
	Default Red 50, Green 50 and Blue 50 if select medium. No setup required.						
<u>Warm</u>							
Color	Default Red 70, Green 38 and Blue 50 if select warm. No setup required.						
Temperature	<u>User</u>						
	User can set Red, Green and Blue if select user mode.						
	Cool						
	Default Red 50, Green 38 and Blue 70 if select Cool. No setup required.						

3.3.4 Input



Input Auto (Default input), AV, YPbPr, VGA and HDMI can be selected.

3.3.5 Zoom Out



Level 1, default setting.

Level 2, Zoom out 2%.

Level 3, Zoom out 6%.

Level 4, Zoom out 10%.

*: Only available when AV output.

Note: MSP 227 V1.0 can not support this function.

3.3.6 Screen



	Auto Adjust
	Enable or disable the auto adjust function.
	Auto Adjust
	Auto adjust is available if select "On" for auto adjust option.
	Horizontal Pos.
	Push the [UP/DOWN] button to increase or decrease the horizontal position
Screen	value.
Screen	<u>Vertical Pos.</u>
	Push the [UP/DOWN] button to increase or decrease the vertical position
	value.
	<u>Size</u>
	Push the [UP/DOWN] button to increase or decrease the size.
	<u>Phase</u>
	Push the [UP/DOWN] button to increase or decrease the phase.

3.3.7 Language/菜单语言



Language/菜单语言

Select Chinese or English.

3.4 System Connection

Besides standard DVI, the MSP 227 also supports HDMI with DVI-HDMI adapter, VGA with DVI-VGA adapter, YPbPr/AV with DVI-YPbPr adapter.

Adapters



Connection

YPbPr video connection



AV Video Connection



VGA **Video** Connection



21

HDMI Connection



DVI/VGA/YPbPr/AV Audio Connection



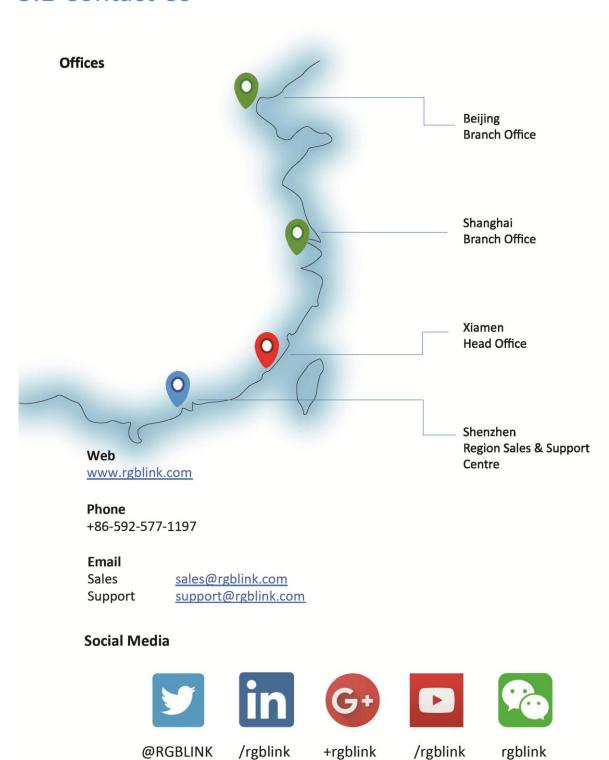
Chapter 4 Ordering Codes

4.1 Product

601-0227-01-0 MSP 227 DVI Cross Converter

Chapter 5 Support

5.1 Contact Us



Chapter 6 Appendix

6.1 Specification

DVI Input					
Number of Inputs	1				
Connector	Standard DVI-I socket				
Supported Resolution	HDMI / DVI: Up to 1080p, 1600x1200				
	VGA: Up to 1920x1080P@60Hz				
	YPbPr: Up to 1920x1080P@60Hz				
	AV: PAL / NTSC				
Signal Level	TMDS pwl, single pixel input,165MHz bandwidth				
Format Standard	HDMI 1.3				
DVI Output					
Number of Outputs	1				
Connector	Standard DVI-I Socket				
Signal Level	TMDS pwl, single pixel input,165MHz bandwidth				
Supported Resolution	HDMI / DVI: Up to 1080p, 1600x1200				
	VGA: Up to 1920x1080P@60Hz				
	YPbPr: Up to 1920x1080P@60Hz				
	AV: PAL / NTSC				
Extras					
Power	Standard 12V/3A				
Operating Temperature	0°C~40°C				
Storage Temperature	-20°C~60°C				
Main Unit Weight	0.35kg				
Main Unit Dimensions	142mm×89.7mm×23.5mm				
Product Warranty	3 years parts and labor warranty				

6.2 Terms & 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-Concelman. 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 subcarrier 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 chroma 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 include 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 exists including progressive 1280x720 and interlaced 1920x1080 resolution. Up to 32 audio signals are carried in the ancillary data.
- "JPEG" (Joint photographic Expects Group): Commonly used method of lossy 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.
- "Operator": Refers to the person who uses the system.
- "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.
- "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 avoid 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 baseband 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.

6.3 Revision History

The table below lists the changes to the Video Processor User Manual.

Format	Time	ECO#	Description	Principal
V1.0	2016-12-07	0000#	Release	Vira