

Table of Contents

FCC COMPLIANCE STATEMENT4
WARNINGS AND PRECAUTIONS
WARRANTY
Standard Warranty5 Three Year Warranty6
DISPOSAL
CHAPTER 1 INTRODUCTION
1.1 Features
CHAPTER 2 CONNECTIONS AND CONTROLS
2.1 FRONT PANEL
CHAPTER 3 PREPARATIONS
 3.1 CONNECTING DEVICES
CHAPTER 4 NETWORK SETUP FOR SWITCHER 16
4.1 Static IP Configuration
CHAPTER 5 APPENDICES
APPENDIX 1TALLY OUTPUTS19APPENDIX 2GPI / GPO CONNECTIONS21APPENDIX 3RS-232 SERIAL PORT PINOUT22APPENDIX 4FIRMWARE UPDATE23APPENDIX 5DIMENSIONS & WEIGHT24APPENDIX 6SPECIFICATIONS25
SERVICE AND SUPPORT

Disclaimer of Product & Services

The information offered in this instruction manual is intended as a guide only. At all times, Datavideo Technologies will try to give correct, complete and suitable information. However, Datavideo Technologies cannot exclude that some information in this manual, from time to time, may not be correct or may be incomplete. This manual may contain typing errors, omissions or incorrect information. Datavideo Technologies always recommend that you double check the information in this document for accuracy before making any purchase decision or using the product. Datavideo Technologies is not responsible for any omissions or errors, or for any subsequent loss or damage caused by using the information contained within this manual. Further advice on the content of this manual or on the product can be obtained by contacting your local Datavideo Office or dealer.

FCC Compliance Statement

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

Warnings and Precautions

- 1. Read all of these warnings and save them for later reference.
- 2. Follow all warnings and instructions marked on this unit.
- 3. Unplug this unit from the wall outlet before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.
- 4. Do not use this unit in or near water.
- 5. Do not place this unit on an unstable cart, stand, or table. The unit may fall, causing serious damage.
- 6. Slots and openings on the cabinet top, back, and bottom are provided for ventilation. To ensure safe and reliable operation of this unit, and to protect it from overheating, do not block or cover these openings. Do not place this unit on a bed, sofa, rug, or similar surface, as the ventilation openings on the bottom of the cabinet will be blocked. This unit should never be placed near or over a heat register or radiator. This unit should not be placed in a built-in installation unless proper ventilation is provided.
- 7. This product should only be operated from the type of power source indicated on the marking label of the AC adapter. If you are not sure of the type of power available, consult your Datavideo dealer or your local power company.
- 8. Do not allow anything to rest on the power cord. Do not locate this unit where the power cord will be walked on, rolled over, or otherwise stressed.
- 9. If an extension cord must be used with this unit, make sure that the total of the ampere ratings on the products plugged into the extension cord do not exceed the extension cord rating.
- 10. Make sure that the total amperes of all the units that are plugged into a single wall outlet do not exceed 15 amperes.
- 11. Never push objects of any kind into this unit through the cabinet ventilation slots, as they may touch dangerous voltage points or short out parts that could result in risk of fire or electric shock. Never spill liquid of any kind onto or into this unit.
- 12. Except as specifically explained elsewhere in this manual, do not attempt to service this product yourself. Opening or removing covers that are marked "Do Not Remove" may



expose you to dangerous voltage points or other risks, and will void your warranty. Refer all service issues to qualified service personnel.

- 13. Unplug this product from the wall outlet and refer to qualified service personnel under the following conditions:
 - a. When the power cord is damaged or frayed;
 - b. When liquid has spilled into the unit;
 - c. When the product has been exposed to rain or water;
 - d. When the product does not operate normally under normal operating conditions. Adjust only those controls that are covered by the operating instructions in this manual; improper adjustment of other controls may result in damage to the unit and may often require extensive work by a qualified technician to restore the unit to normal operation;
 - e. When the product has been dropped or the cabinet has been damaged;
 - f. When the product exhibits a distinct change in performance, indicating a need for service.

Warranty Standard Warranty

- Datavideo equipment is guaranteed against any manufacturing defects for one year from the date of purchase.
- The original purchase invoice or other documentary evidence should be supplied at the time of any request for repair under warranty.
- The product warranty period beings on the purchase date. If the purchase date is unknown, the product warranty period begins on the thirtieth day after shipment from a Datavideo office.
- All non-Datavideo manufactured products (product without Datavideo logo) have only one year warranty from the date of purchase.
- Damage caused by accident, misuse, unauthorized repairs, sand, grit or water is not covered under warranty.
- Viruses and malware infections on the computer systems are not covered under warranty.
- Any errors that are caused by unauthorized third-party software installations, which are not required by our computer systems, are not covered under warranty.
- All mail or transportation costs including insurance are at the expense of the owner.
- All other claims of any nature are not covered.
- All accessories including headphones, cables, batteries, metal parts, housing, cable reel and consumable parts are not covered under warranty.
- Warranty only valid in the country or region of purchase.
- Your statutory rights are not affected.

Three Year Warranty

• All Datavideo products purchased after July 1st, 2017 qualify for a free two years extension to the standard warranty, providing the product is registered with Datavideo within **30** days of purchase.



- Certain parts with limited lifetime expectancy such as LCD panels, DVD drives, Hard Drive, Solid State Drive, SD Card, USB Thumb Drive, Lighting, Non-PCIe Card and third party provided PC components are covered for 1 year.
- The three-year warranty must be registered on Datavideo's official website or with your local Datavideo office or one of its authorized distributors within 30 days of purchase.

Disposal



For EU Customers only - WEEE Marking

This symbol on the product or on its packaging indicates that this product must not be disposed of with your other household waste. Instead, it is your responsibility to dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste

equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, your household waste disposal service or the shop where you purchased the product.



CE Marking is the symbol as shown on the left of this page. The letters "**CE**" are the abbreviation of French phrase "Conformité Européene" which literally means "European Conformity". The term initially used was "EC Mark" and it was officially replaced by "CE Marking" in the Directive

93/68/EEC in 1993. "CE Marking" is now used in all EU official documents.

Chapter 1 Introduction

The SE-2600MU HD Video Switcher is a versatile and powerful 8-input live production switcher, ideal for professional AV environments such as corporate conference rooms and school classrooms. Supporting 1080p/60 (3G) High Definition video resolution, it offers a mix of 4x 3G-SDI and 4x HDMI inputs, along with 6 outputs including 3x 3G-SDI and 3x HDMI. Designed for versatile AV applications, it features advanced effects like Chroma Keyers, Luma Key, DSK, PIP, and DVE.

Additionally, it supports audio integration, logo insertion, title overlays, and offers a variety of transitions for a sophisticated production experience.

1.1 Features

- FHD 1080P signals on input and output
- 8 live channels: 4x 3G-SDI + 4x HDMI
- 6 outputs: 3x 3G-SDI +3x HDMI
- Support 1080p SDI input Level A/B
- 2 x Balanced Mini XLR audio inputs
- Each output can be used as an AUX designated output signal
- 4 x Upstream Keyers and 2 x Downstream Keyers
- 4 x Picture-in-Picture
- Built-in CG title overlay system
- 2 Logo insertion (Animation logo, X/Y size)
- Any Input (1-8) can be used as a Frame store (Stills Store)
- Crosspoint assignment (XPT)
- Wipe, Mix, Auto and Cut Transitions
- Tally output
- Analogue Gen-Lock supporting Black Burst and Tri Level cross reference

Chapter 2 Connections and Controls

In this chapter, we will briefly describe the functions of different ports. To use the switcher functions and access the relevant settings, you can connect the controller via either the RS-232 or Ethernet interface. For instructions on using the respective control protocols, refer to the control protocol documents, which can be downloaded from the SE-2600MU product page. The document links are listed below:

- <u>RS-232 Control Protocol</u>
- Ethernet Control Protocol

2.1 Front Panel



Power Button

Press the power button to start and shut down the machine. Please note that to use the power button on the front panel, you will have to turn on the power switch on the rear panel first.

2.2 Rear Panel



Power		
	1. DC IN Connect the supplied 12V PSU to this 4 PIN XLR socket Pin 1 = GND (-) Pin 2 = NC Pin 3 = NC Pin 4 = VCC (+)	
POWER	2. Power Button The power button starts and shuts down the machine.	
	3. Grounding Terminal When connecting this unit to any other component, make sure that it is properly grounded by connecting this terminal to an appropriate point. When connecting, use the socket and be sure to use wire with a cross- sectional area of at least 1.0 mm ² .	
Vide	o Input	
	 4. SDI Video Inputs 1 − 4 SDI video input channels 1 − 4. 	
	5. HDMI Video Inputs 5 – 8 SDI video input channels 5 – 8.	
Video	Output	
	 6. SDI/HDMI Video Outputs The 3 SDI and 3 HDMI video outputs are user-defined outputs. Each of these outputs has the option to be: Multiview Program Preview Program + DSK Clean Program Clean Preview Input 1 – 8 Still 1/2 Flex Src 1 	

REF IN 7. REF IN/OUT The SE-2600MU can be synchronized with other studio equipment such as cameras. REF IN accepts Tri-level or Black Burst sync. REF OLUT REF OLT can be used to pass the sync signal to other studio equipment such as cameras or recorders. Audio 8. AUDIO IN Supports two XLR balanced audio input channels. Control 9. Ethernet Port The DVIP port is designed for the user to access the switcher's settings and functions on a PC/laptop or an Ethernet controller from a remote location. You can either use a static IP address to connect or connect with DHCP. For details about using this port, refer to the Ethernet control protocol document which is available on the product page. Please note that the switcher uses a static IP address by default which is 192.168.100.101. You can use the reset hole next to the USB FW Upgrade port to restore the default IP address. Use a needle to push the reset hole then hold for about 5 to 10 seconds until the machine reboots itself to restore the switcher's default IP address. You can use any standard Ethernet cables to connect. However, for transmission	SYNC I/O		
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distances over 100 meters, please use a CAT6A 23 AWG Ethernet cable or higher.		 9. Ethernet Port The DVIP port is designed for the user to access the switcher's settings and functions on a PC/laptop or an Ethernet controller from a remote location. You can either use a static IP address to connect or connect with DHCP. For details about using this port, refer to the <i>Ethernet control protocol document</i> which is available on the product page. Please note that the switcher uses a static IP address by default which is 192.168.100.101. You can use the reset hole next to the USB FW Upgrade port to restore the default IP address. Use a needle to push the reset hole then hold for about 5 to 10 seconds until the machine reboots itself to restore the switcher's default IP address. You can use any standard Ethernet cables to connect. However, for transmission distances over 100 meters, please use a CAT6A 23 AWG Ethernet cable or higher. 	

RS-232	 10. RS-232 REMOTE The RS-232 port is designed for switcher control at a remote location. You can connect a custom keyboard controller or a PC/laptop with an RS-232 control interface to this port. To access the switcher's settings and functions, refer to the <u>RS-232 control protocol document</u> which is available on the product page. For details about making your own RS-232 cable, refer to <u>Appendix 3</u> or contact your
	local Datavideo distributors.
	11. TALLY OUT The SE-2600MU Tally Output port provides bi-colour tally information to a number of other Datavideo products, such as the ITC- 100 eight channel talkback system or the Datavideo TLM range of monitors. Refer to <u>Appendix 1</u> for more details of the tally cable.
GPI OUT	12. GPI OUT The <i>GPI socket</i> can be used for simple external control. Refer <i>Appendix 2</i> for specifics about making
	your own GPI cable.
Ge	neral
	13. USB FW Upgrade Port Connect the USB drive containing the switcher's latest firmware files to this port for firmware upgrade.
	Note: Depending on the control interface in use, refer to the corresponding protocol documents for instructions on using the Install Software command.

2.3 Connecting the Power Supply

Connect the DC output plug of the supplied AC adapter to the DC IN 12V connector on the rear of the switcher. Then, plug the other end into a wall socket.



Chapter 3 Preparations

In this chapter, we will describe various essential devices to be connected to the switcher in order to complete the system setup. If you possess the skills for setting up the production system, feel free to skip this chapter.

3.1 Connecting Devices

Connecting the Video and Audio Input Devices

Connect cameras, computers and other video input devices to the video input connectors on the rear of the unit and connect an audio mixer to audio input connectors.



Computer for text input

When linking via tally connection

Connect the switcher's tally connector to the tally connector on a commercially available tally box.



Connecting the Video and Audio Output Devices

Connect projectors, large displays and other video output devices to the video output connectors on the rear of the switcher.



3.2 Multi View

The SE-2600MU Multi view output can be supplied from the HDMI or SDI outputs. The Multi view shows monitoring images for **Preview** (PVW), **Program** (PGM) and **Inputs 1~8**. The Multi view can also show **audio level bars** overlaid on the Program image. This confirms the analogue XLR audio input is being received and embedded to the selected Program output(s).

Since a variety of multi-image layouts is available, you can use the Multi view to monitor video and audio in a number of different configurations. The sources can be swapped around using the cross point function. For each setup, embedded audio level indication is available on the Preview and Program windows.

Note: You can also enable a red tally indication box shown around the sources selected for Program OUT and these selected sources should be displayed at the switcher's selected Program output(s). **A Green tally indication box** is usually enabled around the sources selected for Preview. These are the next image sources to be mixed to, wiped in or cut to the Program OUT depending on the user's preference.

Chapter 4 Network Setup for Switcher

The DVIP port is designed for the user to access the switcher's settings and functions on a PC/laptop or an Ethernet controller from a remote location. You can either use a static IP address to connect or connect with DHCP.

Section 4.1 discusses how you can establish direct connection between the SE-2600MU and a Windows computer. In Section 4.2, we will show you how to access the SE-2600MU remotely on your PC or laptop.

4.1 Static IP Configuration

When new from the factory the SE-2600MU will initially have a static IP address of **192.168.100.101.** The unit can be directly connected to a Windows-based computer using an RJ-45 Ethernet cable. The following setup should allow you to initially configure the unit's static IP settings.

System requirements and setup are provided as follows:

- An SE-2600MU Unit
- Windows 7/8/10 laptop or PC
- An RJ-45 Ethernet cable



Instructions

- 1. First physically connect the SE-2600MU to a Windows computer using an RJ-45 Ethernet cable.
- Turn on the Windows computer and set it to static IP setup within the Windows Network and Sharing Centre. In our example, the computer is given the following IP settings so that the computer matches the same IP range as the switcher.

General			
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.			
Obtain an IP address automatica	lly		
• Use the following IP address:			
IP address:	192 . 168 . 100 . 102		
Subnet mask:	255.255.255.0		
Default gateway:	192 . 168 . 100 . 1		
Obtain DNS server address automatically			
Use the following DNS server add	dresses:		
Preferred DNS server:			
Alternate DNS server:			
Validate settings upon exit	Advanced		
	OK Cancel		

3. Now turn on your switcher to establish connection.

Tip: For details about modifying the switcher's IP address, refer to the <u>Ethernet control</u> <u>protocol document</u> which is available on the product page. After changing your network settings, always reboot your switcher for the new settings to become effective.

4.2 DHCP Mode

You can also access the SE-2600MU over an existing TCP/IP LAN type network. In order to initially set up the SE-2600MU, you may need the assistance of your local I.T. specialist to help with the network settings. To help guide you, we have included a quick network setup guide as well as a simplified network setup example below; further advice may be available through your dealer locally or your Datavideo regional office.



To create this simple dedicated SE-2600MU IP network you will need:

- An IP router which can assign/give IP addresses.
- Two RJ-45 cables.
- Windows 7/8/10 laptop or PC.
- The IP router Administrator login and password.

Instructions

- 1. First connect the router to the SE-2600MU and the Windows computer using two RJ-45 cables.
- 2. Turn on the Windows computer and set it to **DHCP setup** within the **Windows Network** and Sharing Centre.

General	Alternate Configuration				
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.					
⊙ Ob	tain an IP address automatical	ly			
OUs	e the following IP address: —				
IP ad	dress:				
Subn	et mask:				
Defa	ult gateway:				
Obtain DNS server address automatically					
● Us	e the following DNS server add	resses:			
Prefe	rred DNS server:				
Alter	nate DNS server:				
U Va	alidate settings upon exit			Adva	inced
			OK		Cancel

- 3. Refer to the *<u>Ethernet control protocol document</u>* to change the switcher's connection mode to DHCP.
- 4. Reboot the SE-2600MU. Once the reboot is complete, query for the switcher's IP address to ensure the router has assigned the correct address.

Chapter 5 Appendices

Appendix 1 Tally Outputs

The SE-2600MU has a D-sub 25 pin female tally output port. These connections provide bi-colour tally information to a number of other Datavideo products, such as the ITC-100 eight channel talkback system and the TLM range of LCD Monitors.

These ports are open collector ports and as such do not provide power to tally light circuits.

Dielectric strength: Max. DC 24V

Current: Max. 50mA



Pin No.	Signal name	Input/Output	Signal Description
1	Program 1	Open collector output	Tally output of input video Program 1
2	Program 2	Open collector output	Tally output of input video Program 2
3	Program 3	Open collector output	Tally output of input video Program 3
4	Program 4	Open collector output	Tally output of input video Program 4
5	Program 5	Open collector output	Tally output of input video Program 5
6	Program 6	Open collector output	Tally output of input video Program 6
7	Program 7	Open collector output	Tally output of input video Program 7
8	Program 8	Open collector output	Tally output of input video Program 8
9	Program 9	Open collector output	Tally output of input video Program 9
10	Program 10	Open collector output	Tally output of input video Program 10
11	Program 11	Open collector output	Tally output of input video Program 11
12	Program 12	Open collector output	Tally output of input video Program 12
13	GND	Ground	Ground
14	Preset 1	Open collector output	Tally output of input video Preset 1
15	Preset 2	Open collector output	Tally output of input video Preset 2
16	Preset 3	Open collector output	Tally output of input video Preset 3
17	Preset 4	Open collector output	Tally output of input video Preset 4
18	Preset 5	Open collector output	Tally output of input video Preset 5
19	Preset 6	Open collector output	Tally output of input video Preset 6
20	Preset 7	Open collector output	Tally output of input video Preset 7
21	Preset 8	Open collector output	Tally output of input video Preset 8
22	Preset 9	Open collector output	Tally output of input video Preset 9
23	Preset 10	Open collector output	Tally output of input video Preset 10
24	Preset 11	Open collector output	Tally output of input video Preset 11
25	Preset 12	Open collector output	Tally output of input video Preset 12

The pin outputs are defined as follows:



Appendix 2 GPI / GPO Connections

The SE-2600MU can control external recorder/playback devices like the HDR-80 and HDR-90 via a simple contact closure GPI / GPO switch.

The GPI interface is a 3.5mm Jack Socket which is situated on the rear panel of the SE-2600MU. Contact closure between the Outer and Inner contacts on the jack plug will trigger a user selected event. Power is supplied by the SE-2600MU and is less than 5V DC.



This GPI socket can also be used as a GPO socket to trigger record or playback events with other equipment such as the Datavideo HDR-80 or HDR-90 recorder.

SAFETY FIRST The cabling required needs to be designed specifically to connect the SE-2600MU to the chosen record or playback device as they are not all the same. The cabling required can be made by yourself or a competent technician. Please speak with your Dealer or local Datavideo office to get further help and advice.

Appendix 3 RS-232 Serial Port Pinout

The user is allowed to connect a custom keyboard controller to the SE-2600MU via the RS-232 interface. The table below provides the RS-232 serial port pinout on the device end (SE-2600MU). Note that the RS-232 port is a 9 pin D-sub female connector.

Pin No.	Signal
Pin 1	N/C
Pin 2	TXD (RS-232)
Pin 3	RXD (RS-232)
Pin 4	N/C
Pin 5	GND
Pin 6	N/C
Pin 7	N/C
Pin 8	N/C
Pin 9	N/C

You may download the RS-232 control protocol from the product page.

Appendix 4 Firmware Update

Datavideo usually releases new firmware containing new features or reported bug fixes from time to time. Customers can either download the SE-2600MU firmware as they wish or contact their local dealer or reseller for assistance.

This section outlines the firmware upgrade process which should take *approximately few minutes to complete*.

The existing SE-2600MU settings should persist through the *firmware upgrade process, which should not be interrupted once started* as this could result in a non-responsive unit.

Successful firmware upgrade on SE-2600MU requires:

- PC or laptop
- > USB drive
- Access to the Internet for software download

To update the SE-2600MU firmware:

1. Download the latest firmware and the update tool from the path below.

<u>www.datavideo.com</u> \rightarrow products \rightarrow Switchers \rightarrow SE-2600MU \rightarrow Downloads \rightarrow Latest Firmware

- 2. Decompress the downloaded files.
- 3. Insert the USB drive into the PC or laptop and format the drive to FAT or FAT32 system. Save the latest firmware on the drive.
- 4. Remove the USB drive from the PC or laptop.
- 5. Insert the USB drive into the **F/W Upgrade** port at the rear of the SE-2600MU switcher.
- 6. Depending on the control interface in use, refer to the corresponding protocol documents for instructions on using the Install Software command.
- 7. Reboot the SE-2600MU switcher to complete the upgrade.

Appendix 5



All measurements in millimeters (mm) / 3.4 kg

Appendix 6 Specifications

Model Name	SE-2600MU	
Product Name	HD 8 Channel Digital Video Switcher	
Video Standard	Full HD	
Video Format	Output: 1080p 50/ 59.94/ 60Hz 1080i 50/ 59.94/ 60Hz 720p 50/ 59.94/ 60Hz Input: 1080p 50/ 59.94/ 60Hz 1080i 50/ 59.94/ 60Hz 720p 50/ 59.94/ 60Hz	
Video Processing	SDI: 4:2:2 HDMI: YUV 4:2:2, RGB: 4:4:4	
Input Routable / Crosspoint	Yes	
Video Input	Total 8 live inputs 4 x SDI 4 x HDMI	
Mix HD & SD Source	N/A	
Computer Graphical Interface	4 via HDMI	
Video Output	 3 x SDI and 3 x HDMI outputs assignable: Multiview Program Preview Program + DSK Clean Program Clean Preview Input 1 – 8 Still 1 Still 2 Elex Src 1 	
Down-Converted Output	1 x SDI	
Built-in Multi-View Monitoring Out	HDMI & SDI assignable	
Analogue Audio Input	2 x Balanced Mini XLR	
Analogue Audio Output	N/A	
Digital Embedded Audio Support	SDI Input/Output 4 Channels HDMI Input/Output 2 Channels	
Audio Delay Calibration	Up to 16 Fields or 8 Frames per Channel	

A+V Switching	Yes
Chromakey	4
Title Creator	Yes
USK	4 Keyers supporting Chromakey & Linear/ Luma Key
DSK	2 x DSK supporting Lumakey & Linear key (Key / Fill)
Picture in Picture	4
Logo Insertion	2
Still Store	999+ (1080p)
Effects	Cut, Auto, Wipe, MIX
Transition Preview	Full Transitions Preview
Sync / Reference In / Out	1 x BNC Ref IN 1 x BNC Ref OUT (loop-through)
Tally Output	1 x D-sub 25pin, Dual Color
PC Remote Control	RS-232 / DVIP (Ethernet)
Built-in Audio Mixer	N/A
Special Features	User Memory Presets Free Virtual Sets and Stinger Transitions included
Chassis	Unibody
Dimensions (LxWxH)	483.6 x 223 x 44 mm
Weight	3.4 kg
Power	DC 12V 82W
Operating Temperature	0°C - 40°C [32°F - 104°F]

Notes

Service & Support

It is our goal to make owning and using Datavideo products a satisfying experience. Our support staff is available to assist you to set up and operate your system. Contact your local office for specific support requests. Plus, please visit www.datavideo.com to access our FAQ section.

Please visit our website for latest manual update. www.datavideo.com/product/SE-2600MU





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