

# The New Reference Standard is Here! The Ross Synergy 100 is the new standard in compact digital production switchers.

Designed with a big switcher processing engine, the power, capabilities and picture quality are unprecedented in any switcher, by any other manufacturer on the planet.

 Live Production Editing Squeeze Backs Standalone DVE

# **Live Production!**

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If there is one thing we know at Ross, it's how to build a switcher for Live Production. You'll find the control panel fast and easy to operate.



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The Synergy 100 will fit right into your small edit suite. It works well in linear, offline, or hybrid edit suites.



The stylish S100 panel comes in a choice of colors

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**Sport Yellow** 



**Tech Silver** 



**Classic Black** 

### The S100 is a powerful, versatile, easy to use switcher which makes it the perfect choice for so many applications... Come and get it!





**Sport Yellow** 

# **Classic Black**

#### High Quality 3 Axis Joystick

**Tech Silver** 

- Used to control SQUEEZE & TEASE 2D or WARP DVEs. Also used to position wipes, mask keys,
- and more!

#### **Effects Keyers**

- Control over Key 1 & Key 2.
- All key types are supported.
- Add optional Squeeze & Tease 2D or WARP DVE effects.

#### **Fiv Kev Button**

- Pressing "Fly Key" turns on Squeeze & Tease WARP to create a box or fly a chroma key, self key, or auto select key.
- · You won't find this on other switchers.

#### Chroma Key

Autochroma key set-up is available on both the standard and Ultimatte™ chroma keyers.

PLY NEY

- 6 full buses for V + K selection to key 1, key 2, and DSK.
- 3 way control shown by backlit indicator.
- Selected source button lights red when on air.

#### **Program Bus**

- Source button lights red to indicate source on air.
- Fully assignable (any of the 16 inputs to any button).
- Shift function provides access to "back-side" sources.

#### Preset Bus

- Used to select the next background.
- Only on air during a transition.

# Disk Drive Standard PC Format 1.44MB Floppy Drive

- Store and recall memories, personality settings, and installation settings.
- Upgrade software and (FPGA) hardware through this drive via software downloaded from the Ross website.

#### **Effects Control**

Quickly select wipe or DVE transitions.

ROTATE

ASPECT

BLACK

- When memory is selected, acts as a memory recall shot box.
- Memory locations work like "Key Frames" for dynamic "Squeeze & Tease" DVE control.
- Panel buttons illuminate in green when linked to this area.

MEN





FLY

KEY

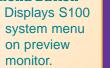
SELF

KEY2

# **Mattes Select**

Used to delegate matte adjustments to one of 5 internal matte generators.







OUTL

DSK PV

TRANS PST

FADE TO BLACK

DSK

0-

DSK

#### **Non-Sync Indication**

• Bus row labels change to yellow in the case of a non-synchronous or untimed source.



#### **Dissolve. Wipe. and DVE (Squeeze & Tease) Transitions** Squeeze & Tease transitions are easy...Just like a wipe!

TRANSITION CONTROL

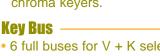
AUTO

CUT

### **Patented Transition Preview**

initiating a transition, to verify transition on preview output.







#### System Control

• Use back, ↑ and ↓ to navigate S100 system menu when menu is turned on.

#### **Rate Select**

• When operating, individual adjustments to auto transition, downstream keyer, and fade-to-black rates are made here.

#### **Downstream Kever Adjustments**

- Comprehensive DSK control.
- Access to every switcher source via key bus.

#### **Optional Key Border Generator**

- Add drop shadows, glows, and more.
- Positionable anywhere on screen.

#### **Key Memory for Auto Select**

• Brings back correct key settings automatically for any auto select key.

#### **Character Generator Quick Select Buttons**

- Quick select for commonly keyed sources.
- Assign any commonly used key source here.
- Provides quick access to character generators and other common DSK sources.

#### **Legendary Ross Fader Handle**

 Simply the best - Backed with a lifetime warranty.

#### **Preset Black**

• Quickly sets up a transition through black.

#### **Transition Limit**

- Used to establish a mid-transition stop point.
- Great for squeeze-backs!

#### **Downstream Fade-To-Black**

- With ridges to prevent accidental activation.
- Flashes red when in FTB mode.

#### **Downstream Kever Transitions**

- Dedicated DSK CUT and DISSOLVE buttons.
- Red on air indicator.

#### **Pop-Up Help**

• Help messages automatically appear on the preview monitor if you hit an invalid button sequence.

#### **Transition "Zinger"**

 Bright green LED shows location and direction of fader handle or auto transition.

Hold down DISS, WIPE, DVE while















# Head Spinning Effects! CCL



Page Turn



**2 Sided Slab** 



Wave



**Slats** 



Defocus





Mirror



Melt



Mosaic



10 adds

S







**Colorization** 

# The Engineering Details

# S100-001 (Synergy 1) Rack Frame Rear View

• GVG 100/110 control panel

 Analog control panel connectors (used with analog upgrades only)

Captive locking

- General purpose interface (GPI) for simple editor control and remote memory recall
  - Preview outputs (x2)

Rack frame tal-

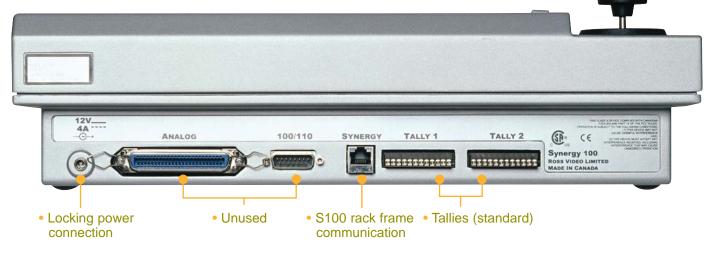
- RS-422/232 serial editor interface (GVG-100/110 or GVG-4000 protocol, optional)
  - Unused on S100 (Synergy 1 only)

power cord lies (optional) (Used for GVG digital upgrade) GPI I/O -----.... 11 12 13 14 15 16 0 0  $\bigcirc$ .... S100 control panel 8 auxiliary bus outputs • Program outputs (x2) 16 digital inputs communication (Aux busses 1 & 2 not used on S100) Power diagnos- Positionable clean feed Digital reference input Aux panel tic LEDs

(optional)

# **S100 Control Panel Rear View**

communication



# **S100 Assignable Aux Bus Control Panel**

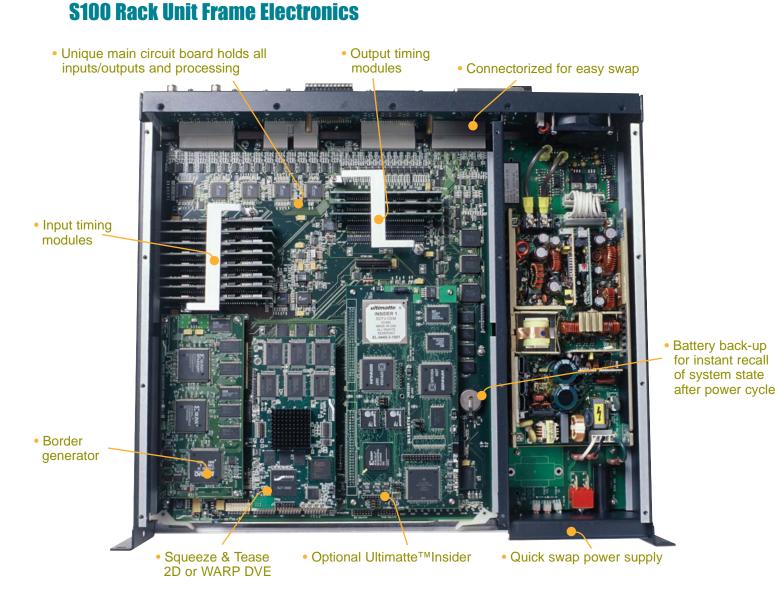


# **S100 Single Aux Bus Control Panel**

ROSS

BLACK		0	0	8	20	8	2	2							
MLE	DVE SEND	CLEAN FEED	POM			1000						۲			

- Camera CCU joystick override is supported on Aux Bus Control Panels.
- Aux control panels can be daisy-chained up to 8 deep.



# **S100 Rack Shelf Unit**



- Sturdy construction and smooth operation make this sliding rack shelf the right choice for many applications, including: smaller live production or editing suites and mobile trucks, where the control panel can be easily accessed or stored with the flip of a lever.
- 2 position locking mechanism allows the shelf to be secured in either a stowed or in-use position.

- Systems	Syst	Systems & Options						
S100-001BK		gital Production Switcher, Classic Black						
S100-001SL S100-001YL	Synergy 100 Digital Production Switcher, Tech Silver Synergy 100 Digital Production Switcher, Sport Yellow							
3100-0011L								
	System O	ptions						
	S100-023A	Conversion Frame (DFR-8110A, Includes One Power Supply)						
	S100-023A-C	Conversion Frame, As Above with Cooling Fan Unit in Door						
	S100-028	Ultimatte™Insider Matting Device						
	S100-031	Clean Feed						
	S100-140	Squeeze & Tease 2D						
	S100-142A	Squeeze & Tease WARP						
	S100-141	DSK Border Generator						
	S100-052	Dedicated Remote Aux Panel (Includes 10 Meter Control Cable)						
	S100-053	Assignable Remote Aux Panel (Includes 10 Meter Control Cable)						
	S100-054	Custom Cable for Aux Panel (Per Meter, Replaces 10 Meter Cable)						
	S100-060	Editor Interface						
	S100-073	Spare Parts Kit						
	S100-075	Custom Cable for Main Control Panel (Per Meter, Replaces 10 Meter Cable)						
	S100-076	Spare Power Supply (Panel)						
	S100-077	Spare Power Supply (Rack Frame)						
	S100-079	Rack Frame Tallies						
	S100-008	In-Desk Mounting Bracket						
	S100-009	Rackmount Sliding Shelf						
	S100-081	Additional Operators Manual						
	S100-082	Additional Installation Manual						
	S100-083	Additional Maintenance Manual						
	S100-090	Synergy On-site Operational Training - 1st Day						
	S100-091	Synergy On-site Operational Training - Additional Day						
	S100-092	Synergy On-site Technical Training (2 Days)						
	S100-093	Synergy On-site Commissioning (2 Days)						
	S100-999	Synergy 100 Extended Warranty (Adds One Year)						





Purchase a Synergy 100 and Conversion Gear and get a Ross 2RU Digital DA Frame and Power Supply for C1

- Call Ross Video for details. (613) 652-4886
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  GVG is a trademark of Thomson Multimedia.

www.rossvideo.com

# **Ross Video Technical Services**

• A complete range of technical services is available from Ross Video to ensure that your Synergy 100 installation is a success.

#### Operational Training Commissioning Technical Training Extended Warranties Technical Support

- Operational Training is available either at Ross or on-site at your location. Experienced Ross operators will teach your staff to get the most out of your new switcher.
- Commissioning is a service to help get your switcher configured and up and running. It is performed by factory trained Ross technical staff.
- Technical training can be provided at the Ross Video factory in Iroquois, Ontario or on-site at your location. Technical training will teach your engineering staff the technical details of the system you have purchased. Signal flow, system configuration and routine maintenance procedures are some of the topics covered.
- The Synergy 100 comes equipped with a 3 year comprehensive warranty. Extended warranties are available for an annual fee.
- Technical advice is available free for the life of your switcher simply by telephone, fax or email to Ross Video.



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