Rainier **3G** Plus

The Rainier 3G Plus multiviewer allows monitoring a mix of 3G/HD/SD-SDI and CVBS signals on a single screen. Its 1RU modular enclosure can house four multiviewer cards of two types. The 3G Plus-1 card supports quad-view with free-scaling windows and flexible layout control. The 3G Plus-Q card delivers a quad-split only solution with full screen capability. Both cards feature HDMI and SDI dual outputs with 1080 clarity.

Through internal cascade, individual cards can be flexibly grouped and display up to 16 sources over a single multiviewer output. Duplicated multiview display can be simultaneously monitored from any of the grouped cards without the need for external DA.

User can easily expand the system by externally cascading up to 10 units. Managed from a single point of control, the cascaded system facilitates monitoring up to 160 sources per display. This scalable design ensures a cost-effective multiviewer solution that dynamically adapts to growing studio and production requirements.

FEATURES

→ 1RU chassis houses up to four independent and field-serviceable multiviewer cards (3G Plus-1 & 3G Plus-Q card)

→ Support any combination of SDI (3G/HD/SD) and CVBS (NTSC/PAL) signals auto-sensed at the inputs

→ Each card features HDMI and SDI dual outputs for local/remote display or downstream equipment (SDI outputs at 1080p or 720p)

→ Internal cascade allows grouping of any 2/3/4 3G Plus-1 cards for displaying 8/12/16 sources on one screen; or duplicated onto multiple screens without external DA

→ Multiple units cascade (up to 10 units) via SDI cabling expands multiview display up to 160 sources (only available with 3G Plus-1 cards)

→ Video controls include free-scaling windows (for 3G Plus-1 only) and aspect ratio control, adjustable safe area, and various OSD settings

→ Audio output supports HDMI/SDI embedded and analog audio output with delay adjustment

→ Dynamic software control from distance over TCP/IP; or use the built-in LCD panel for local operation

→ Redundant dual DC power supply with user-definable power failure alarming scheme

→ Up to 14 presets can be saved and recalled per card

→ Pass MIL-STD-810G test method 514.6 for US truck under random vibration while in operation

VIDEO & AUDIO CONTROL

→ Free-scaling windows (full-screen and PiP overlay display) (only for 3G Plus-1 card)

→ Image Gain: automatic or manual adjustment

→ Image cropping and panning

→ Support SDI embedded audio

→ **Audio Output**
  • HDMI/SDI embedded or stereo phono jack analog audio

→ Adjustable audio delay (0 ~ 2700 ms)

ON-SCREEN DISPLAYS

→ **Border**
  • Image border
  • Video border

→ **Label**
  • BMP label
  • UMD

→ **Alarm Detection**
  • Video loss/black/freeze
  • Audio loss/high/low/phase
  • Power failure

→ Active Format Description (AFD) detection

→ Closed Caption (CC) detection

→ Tally (up to 3 tallies per image window)

→ Audio meter

→ Digital clock/User logo (only for 3G Plus-1 card)

→ **Time Code**
  • External Linear Time Code (LTC) display (only for 3G Plus-1 card)
  • SDI Embedded Time Code display

→ Safe area and aspect ratio detection

→ Configurable background color

ACCESSORIES

→ 24V DC power adapter

→ Rack mount kit with power adapter tray

→ RS-485 cascading cable

  (optional — when purchasing 2 or more Rainier 3G Plus)

SPECIFICATIONS

CHASSIS		Up to 4 Cards in 1RU
FRONT PANEL		1 × LCD panel
REAR PANEL	Input	1 × RJ-45 (Ethernet)
		1 × RJ-45 (RS-232 for TSL UMD protocol control)
		1 × RJ-45 (RS-485 for communication cascade input)
		1 × BNC (LTC input)—only for Rainier 3G Plus-1 card
		1 × BNC (for video cascade input)—only for Rainier 3G Plus-1 card
	Output	1 × Stereo Phono Jack (stereo/headphone)
		1 × RJ-45 (RS-485 for communication cascade input)

Rainier 3G Plus-1 (free-scaling) & 3G Plus-Q (quad-split/full-screen) Card

	Input	4 × BNC
		Automatic sensing input signals of
		SDI (3G/HD/SD) / CVBS (NTSC/PAL)
	Output	1 × HDMI (video/audio)
		Max. Resolution — 1920 × 1200 (WUXGA) @50/60 Hz
		1600 × 1200 (UXGA) @75 Hz
		1 × BNC
		Resolution at 1080p and 720p @50/60Hz

POWER REQUIREMENTS	100–240V AC / 24V DC Adapter / Max. 110 Watt
DIMENSION (L×W×H)	17.28 x 12.20 x 1.75 inch (43.90 x 31.00 x 4.44 cm)
WEIGHT	9.26 lbs (4.2 Kg)
SAFETY REGULATIONS	FCC, CE, C-Tick, Class A

RAINIER 3G PLUS SERIES COMPARISON

Feature Availability	3G Plus-Q	3G Plus-1
SDI (3G/HD/SD) / CVBS (NTSC/PAL) Input	✓	✓
HDMI Output	✓	✓
Max. Output Resolution (HDMI)	1920×1200 @60 Hz	1920×1200 @60 Hz
SDI Output	720p @50/60 Hz 1080p @50/60 Hz	720p @50/60 Hz 1080p @50/60 Hz
SDI Embedded Audio Input	✓	✓
Stereo Phono Jack Audio Output	✓	✓
Multiview Display	Quad-split/Full-screen	Free-scaling Windows
Digital Clock/User Logo	—	✓
LTC/SDI Embedded Time Code Display	SDI Embedded Only	✓
BMP/UMD Label, Border & Audio Meter	✓	✓
OSD, Video Loss/Freeze/Black, AFD, CC, and Audio Loss/High/Low/Phase	✓	✓
Dual DC Power Supply	✓	✓
LCD Panel for Recall of Preset and Control	✓	✓
Support TSL via RS-232	✓	✓
Phoenix-Q Software Support	✓	✓
Avitech ASCII Protocol Support	✓	✓

Specifications and data are subject to change without notice.

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Multiviewers | KVM Switchers | Wall Processors | Converters | Extenders | HDMI/SDI Switchers | Distribution Amplifiers