

# HView™ SX Pro

## Multi-Display Management System

MULTIVIEWERS // HVIEW™ SX PRO



Harris introduces the HView™ SX Pro – our latest multiviewer option for the Harris® Platinum™ routing frame. Easily the industry's most scalable, highest-density multiviewer, HView SX Pro delivers all the best that today's advanced multiviewers have to offer. In a smaller, sharper and smarter design.

With HView SX Pro, you get more sources and outputs in fewer rack units. Advanced scaling technology for unsurpassed picture quality. Unmatched display output options. Built-in wall control functionality. Superior redundancy. And a vast range of user-friendly configuration and control options.

### PRODUCT DETAILS

#### Maximum functionality, Minimum real estate

The HView SX Pro multi-display management system offers versatile, modular solutions capable of monitoring from 16 to 512 sources in a space-, cost- and power-saving package. Here's how it works.

HView SX Pro is an output module that operates in any current Platinum router chassis (5, 9, 15 or 28RU). Occupying from one to four slots, the module can reside alone in a Platinum frame and function exclusively as a multiviewer, or can be combined with routing cards for ultimate flexibility.

A single HView SX Pro card is capable of driving up to three unique displays, with the dual- and quad-slot versions capable of driving up to six. Depending on the size of the frame, up to 64 HView SX Pro modules can be placed in one chassis.

What do these facts and figures mean for your operation? Here's an example: Using HView SX Pro, you can monitor up to 512 baseband input signals and drive up to 192 independent displays via a single 28RU chassis. And if your business outgrows your monitoring capability, two frames can be easily linked together to further increase the output capacity — up to an unprecedented 384 displays in 56RU!

#### Peerless picture quality

While cost and space savings are top of mind in any infrastructure deployment, they can't be achieved at the expense of picture quality in today's discriminating monitoring environments. Advanced video wall/multiviewer combinations enable not only monitoring, but also control of devices from one central location — and picture quality is vital when it comes to making critical judgment calls.

### FEATURES

- Pristine quality images – ideal for production environments
- Less than one frame of processing delay
- Monitoring of up to 512 sources over 192 displays
- Virtual wall functionality – Treat up to six displays as single-display surface
- Support for 3G/HD/SD/Composite signals
- Simultaneous HDMI and HDSDI outputs
- SFP fiber output option
- Alarming on audio, video and metadata faults
- Monitoring of embedded, AES, analog or MADI audio
- Audio monitor output
- On-screen clocks and timers
- LTC, NTP and VITC timecode
- Dynamic aspect ratio management
- Safe area and aspect ratio markers
- Closed Caption decode and display
- Support for dynamic UMD and Tally protocols
- On-screen mouse control

Combining the best in multi-image processing technology with the game-changing advantages of the Platinum router series, the HView SX Pro is more than merely a "multiviewer." It is a powerful, highly reliable, space-saving multi-display management system that is easy to deploy, consumes less power, and reduces overall integration and operating costs. And it is, quite simply, a better way to handle signal monitoring in today's fast-paced world of live production.

HView SX Pro raises the bar with its new Harris-developed MicroFine scaling technology, which uses an advanced polyphase scaling algorithm in tandem with adaptive deinterlacing to maintain the finest detail even on the smallest of PiPs. In addition, HView SX Pro features ultra low-latency processing to deliver the lowest possible frame delay — imperative in today's competitive live broadcasting environments.

#### Smarter design, Simpler operation

Implementing a powerful, sophisticated monitoring solution will be a costly decision if nobody knows how to use it. That's why ease of use was a key factor in the design of HView SX Pro.

For maximum flexibility, every individual Platinum output slot is configurable, enabling you to design a system that exactly matches your needs. Display options include simultaneous HDMI and HDSDI and virtual wall functionality, which enables you to treat up to six displays as a single-display surface. Monitoring is made simple by an extensive offer of fully integrated capabilities such as automatic video, audio and metadata alarming, on-screen ballistic meters and SNMP-based notification.

HView Designer, a built-in, highly intuitive Microsoft® Silverlight®-based editing and configuration tool, allows easy access to the system control via a web browser. A range of other control choices are available, including on-screen mouse control, GPI options, Harris Magellan™ router control panels, and CCS Navigator™ network monitoring and control software.

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### SPECIFICATIONS

Specifications and designs are subject to change without notice.

#### Video Inputs

Input Standards . . . . . 3 Gb/s: SMPTE 424M (2.97, 2.97/1.001 Gb/s)  
 HD: SMPTE 292M (1.485, 1.485/1.001 Gb/s)  
 SD: SMPTE 259M-C (270 Mb/s, 525/625)

Input Resolutions . . . . . 1080p 59.94/50/23.98psf, 1080i 59.94/50,  
 720p 59.94/50, SDI 525, SDI 625, PAL, NTSC

#### Video Outputs

HDMI

Number of Outputs . . . . . 3 to 6

Output Resolution . . . . . 1920x1200p 59.95/50, 1920x1080p 59.95/50,  
 720p 59.95/50

Connector . . . . . HDMI

#### HDSDI

Number of Outputs . . . . . 3 to 6

Output Resolution . . . . . 1920x1080p 59.95/50, 1080i 59.95/50, 720p  
 59.95/50

Connector . . . . . HD-BNC

#### Fiber (option)

Number of Outputs . . . . . 3 to 6

Output Resolution . . . . . 1920x1080p 59.95/50, 1080i 59.95/50, 720p  
 59.95/50

Connector . . . . . LC

#### Audio Outputs

#### AES

Number of Outputs . . . . . 1 (selected models)

Output Standard . . . . . AES3, SMPTE 276M

#### Control

Configuration . . . . . HView Designer – web-based control and  
 configuration software

Hardware Panels . . . . . Magellan control panel

Network Monitoring . . . . . CCS Navigator

GPI . . . . . Support up to 64 GPI inputs

**Ancillary Data Decode** . . . . . Closed Caption decode and display (EIA 608, 708)  
 VITC decode and display  
 Source ID (SMPTE 291M)  
 WSS decode  
 AFD

**UMD Protocol Support** . . . . . TSL 3.1, 4.0, 5.0  
 Image Video  
 Ross contribution protocol  
 Thomson ASCII

**Graphics Overlay** . . . . . Customizable backgrounds  
 Stylized video window skins  
 In-picture embedded audio bargraphs  
 Choice of analog/digital clock style  
 Up/down timers  
 4 tally lamps - red, green, yellow, blue  
 Dynamic UMD/tally

#### Fault Detection And Alarms

**Video** . . . . . Loss of video  
 Frozen picture  
 Black picture detection  
 Loss of V-chip rating  
 Loss of closed captioning data  
 Loss of VITC data

**Audio** . . . . . Audio over-level  
 Audio under level/silence  
 Loss of embedded channels

**Status Indicators** . . . . . Input standard  
 Closed Caption standard  
 Source ID  
 V-chip status

**Environmental** . . . . . Operating temperature: 41° to 95° F (5° to 35° C)  
 Storage: 32° to 122° F (0° to 50° C)  
 Humidity: 70% maximum

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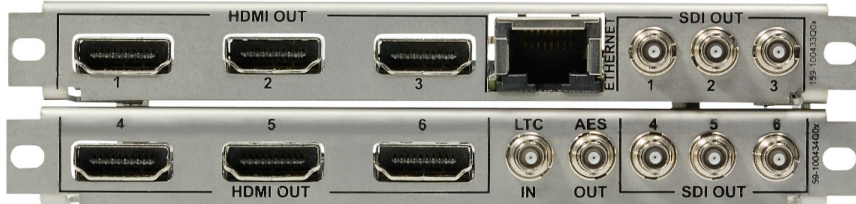
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### IMAGES AND DIAGRAMS

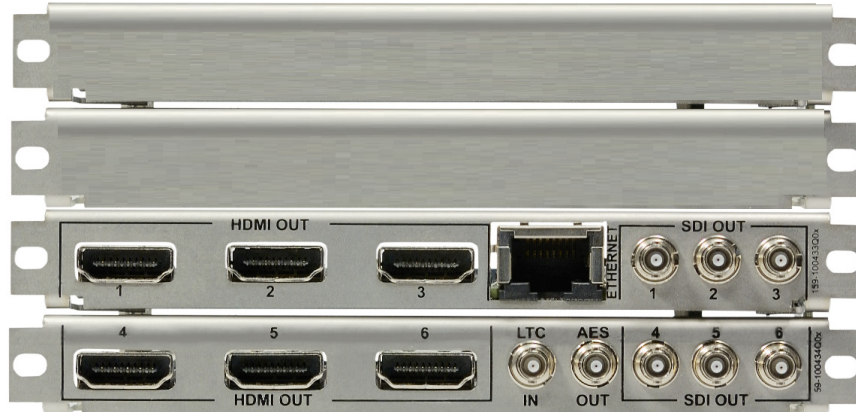
**HView™ SX Pro 16x3 Back Panel**



**HView™ SX Pro 32x6 Back Panel**



**HView™ SX Pro 64x6 Back Panel**



### ORDERING INFORMATION

|                 |   |                    |   |
|-----------------|---|--------------------|---|
| HV-SXP-16x3     | Multiviewer option for 5/9/15RU Platinum frames, featuring 16 unique 3G/HD/SD signals across 3x HDMI and 3xHDSDI outputs  | HV-SXP-16x6-FR28   | Multiviewer option for 28RU Platinum frames, featuring 16 unique 3G/HD/SD signals across 6x HDMI and 6xHDSDI outputs  |
| HV-SXP-32x6     | Multiviewer option for 5/9/15RU Platinum frames, featuring 32 unique 3G/HD/SD signals across 6x HDMI and 6xHDSDI outputs  | HV-SXP-32x6-FR28   | Multiviewer option for 28RU Platinum frames, featuring 32 unique 3G/HD/SD signals across 6x HDMI and 6xHDSDI outputs  |
| HV-SXP-64x6     | Multiviewer option for 5/9/15RU Platinum frames, featuring 64 unique 3G/HD/SD signals across 6x HDMI and 6xHDSDI outputs  | HV-SXP-8x3-0-FR28  | Multiviewer option for 28RU Platinum frames, featuring 8 unique 3G/HD/SD signals across 3x Fiber and 3xHDSDI outputs. Requires SFP modules supplied separately  |
| HV-SXP-16x3-0   | Multiviewer option for 5/9/15RU Platinum frames, featuring 16 unique 3G/HD/SD signals across 3x Fiber and 3xHDSDI outputs. Requires SFP modules supplied separately | HV-SXP-16x6-0-FR28 | Multiviewer option for 28RU Platinum frames, featuring 16 unique 3G/HD/SD signals across 6x Fiber and 6xHDSDI outputs. Requires SFP modules supplied separately |
| HV-SXP-32x6-0   | Multiviewer option for 5/9/15RU Platinum frames, featuring 32 unique 3G/HD/SD signals across 6x Fiber and 6xHDSDI outputs. Requires SFP modules supplied separately | HV-SXP-32x6-0-FR28 | Multiviewer option for 28RU Platinum frames, featuring 32 unique 3G/HD/SD signals across 6x Fiber and 6xHDSDI outputs. Requires SFP modules supplied separately |
| HV-SXP-64x6-0   | Multiviewer option for 5/9/15RU Platinum frames, featuring 64 unique 3G/HD/SD signals across 6x Fiber and 6xHDSDI outputs. Requires SFP modules supplied separately | OP+SFP+TT+13+13    | Dual SFP 1310nm fiber transmitter   |
| HV-SXP-8x3-FR28 | Multiviewer option for 28RU Platinum frames, featuring 8 unique 3G/HD/SD signals across 3x HDMI and 3xHDSDI outputs   | HV-GPI24E          | GPIO interface for HView SX multiviewers  |