



PESA
XSTREAM
C58



*Multi-port HD-IP
Streaming System*

The new standard for audio and video streaming

The PESA XSTREAM re-writes the standards for affordable streaming with more video, more audio and more signal format management than any other product on the market. From a compact 1RU package, the rear panel is filled with connector options -simplifying integration and configuration of your audio and video sources. With this high definition video encoder, front end video formats such as NTSC/PAL, SDI, HD-SDI and 3G-SDI can be combined with decoded IP video sources to create the best combination of up to 5 simultaneous full screen streams and one Quad-View stream. Latency and timing issues are a thing of the past because, unlike other streaming appliances, the PESA XSTREAM allows up to 8 audio input sources to be combined, synchronized and mixed in real time with any or every video stream. Added features include USB 2.0 and two local HDMI monitoring connections.



Built to perform





Stream

Video webcasting, IP broadcasting, video teleconferencing, custom applications, network control rooms, and real-time surveillance, or just capturing everyday life events; all rely on getting exactly the right content at the right time.

PESA's XSTREAM captures user content from a variety of sources. In order to effectively transmit live and pre-recorded events via IP video streams, both live cameras and stored content must be available to local and remote viewers simultaneously. The XSTREAM is a cost effective and comprehensive package for digital media capture, processing, distribution and storage in an ultra-compact form factor, at a very affordable price.

Share

With the PESA XSTREAM, you have a single solution to deliver and record rich media content to audiences on site or in remote locations across a LAN or WAN network. Integration into fixed network systems is both easy to deploy and to manage.

With local HDMI or BNC outputs* and network connection, operators now have the ability to stream live content over IP with H.264 while simultaneously providing live digital content to a local quad-view display and/or full screen display.

The PESA XSTREAM captures multiple high-resolution sources simultaneously, such as 720p or 1080p SDI cameras, NTSC/PAL devices, and H.264 encoded cameras; and prepares multiple high bandwidth broadcast streams (MPEG-4 / H.264) for enterprise distribution and archiving. During live viewing or replaying of an "event", the video and audio streams remain associated and synchronized.

Create

Supporting multiple input signal formats, the PESA XSTREAM allows you to access video signal sources ranging from IP cameras over a network up to professional broadcast video and audio sources for the highest quality streaming productions.

A single 1RU frame provides up to five independent video inputs and up to eight audio signal inputs from analog, digital or IP sources. With its built-in eight-channel audio mixing capability and integrated A/V synchronization, the PESA XSTREAM delivers more format versatility, processing power and I/O capability than any other multi-channel streaming device available anywhere.

Welcome to the most versatile way to create streaming media.

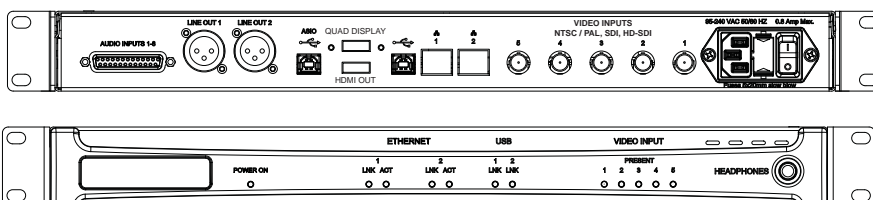
Monitor your sources in real time with the local HDMI or BNC outputs*, preview or record to a PC through the USB 2.0 port while simultaneously streaming in realtime through the Gig-E interface.

** BNC outputs are optional using available accessories*

Connect

All set-up and control of the PESA XSTREAM is through an intuitive Web browser based management and control interface. The management system provides complete remote capabilities, which creates the opportunity to reduce on site personnel.

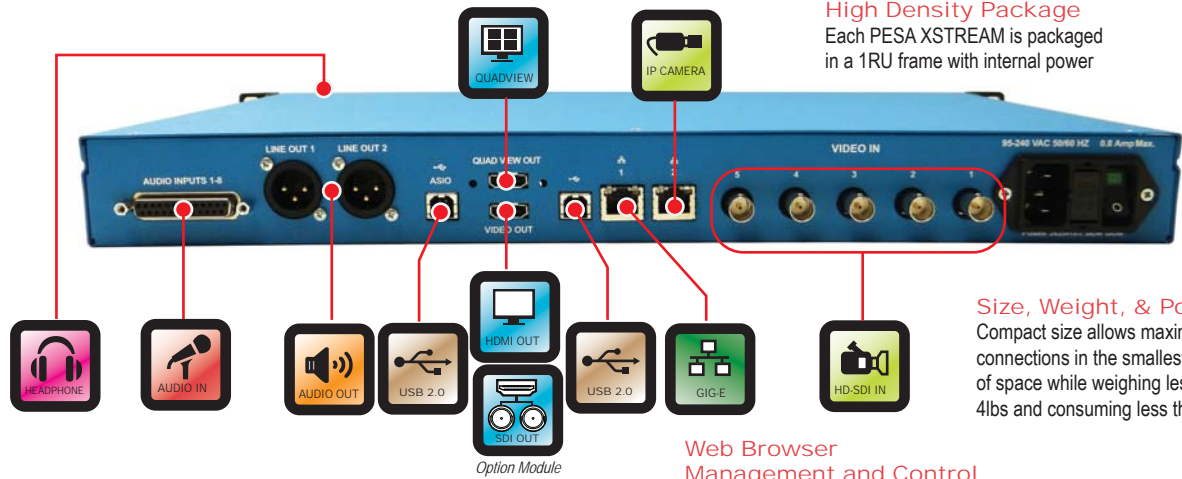
Application developers and system integrators can utilize the embedded API to enable cost effective value-added video and audio capabilities to any solution.



Part Numbers

Model C58-001: Includes 5 SDI inputs, 8 audio inputs, 2 audio outputs, USB 2.0 for local application connections, HDMI output, Quadview output, two Gig-E connections, built in audio mixer and diagnostics monitoring, Web-based control software, manual, and power cord.

Get more connections for the price of a single in / single out solution



High Density Package
Each PESA XSTREAM is packaged in a 1RU frame with internal power

Size, Weight, & Power
Compact size allows maximum connections in the smallest amount of space while weighing less than 4lbs and consuming less than 150 watts

Web Browser Management and Control
Integrated Web Server allowing for full remote capability. No personnel required on site for streaming content to a production facility.

XSTREAM fits these and many other market segments

JUSTICE / GOVERNMENT

- * Automated court recording
- * Depositions
- * Interrogation
- * Forensics
- * Crime Scene
- * VTC
- * Legislative Sessions

ASSET PROTECTION

- * Emergency Management
- * Bank Security
- * First Responders
- * Casino Security
- * Prison Security

ENTERTAINMENT/SPORTS

- * Broadcast Webcasting
- * Sporting Events
- * Staging and Rental Events
- * News Gathering
- * Mobile Production

MEDICAL / EDUCATION

- * Video on Demand
- * Distributed Learning / MOOC
- * Operating Rooms
- * Telemedicine
- * Virtual Classrooms



Up to Eight Audio Inputs
Via an eight port XLR break-out cable, include up to 8 audio sources per channel



Audio Line Outputs
Connect up to two line level audio outputs on the rear panel with XLR and one front panel output with headphone jack



USB 2.0 Connection
Transport stream of all 6 video channels with audio for PC/Mac/Storage applications



HDMI Multiviewer Output
HDMI output allows up to four video inputs to be displayed in a quadview display

HDMI Display Output
HDMI output for full screen display of any one of the live video feeds or from connected IP cameras

OPTION: HDMI to SDI BNC
Breakout module for HDMI to BNC for HD-SDI previews (with embedded audio)



Up to Five Video Sources
Connect five video sources supporting either NTSC/PAL or SDI in 720p, 1080i, and 1080p resolutions



Gig-E Network Connection
Concurrently stream up to six H.264 streams to networked devices, setup control and configuration with PESA's web-based GUI interface, and set the variable rate of transport to accommodate any type of network traffic. Select any IP camera connected to the network and combine with local video sources prior to streaming.

Specifications

VIDEO INPUTS

Number 5 Video processing channels
Source BNC input or decoded from IP stream

BNC

Number 5 BNC connectors
Type Standard 75 Ohm, self-terminating
Formats Analog: NTSC/PAL
Digital: SMPTE ST-292 (720p, 1080i), ST-424 (1080p)
Return Loss $\geq 15\text{dB}$ 1MHz to 1.5GHz; $\geq 10\text{dB}$, 1.5GHz to 3GHz.
Equalization 200m auto-equalization Belden 1694A or equivalent at 1.5Gbps;
140m auto-equalization Belden 1694A or equivalent at 3.0Gbps

IP VIDEO

Connection RTP/RTSP
Format H.264 (MPEG 4/Part 10)
Connector 2 RJ-45 for 100/1000 Gig-E port

Supported IP Cameras*

**Additional camera support is being added on a regular basis;
Contact PESA to see if the specific camera you are using is supported.*

AUDIO INPUTS

Source Analog audio, Line/mic level, 8 channels
De-embedded from SDI video input, up to 10 available sources
AAC audio decoded from IP stream paired to IP video input signal,
up to 5 available sources
Test tone, internally generated
Number 8 Audio processing channels, selected from any of the above sources

ANALOG AUDIO

Type 25 Pin D connector
Optional XLR breakout cable for 8 connections available
Format Balanced
Audio Level Mic level with user selectable "phantom power" or
line level inputs
Gain Adjustment +12dB to -40dB line level/+59dB to 0 dB mic level

IP STREAMING

IP Streams

Number 6 Individually addressable IP streams: five streams each
containing video from one of the five input processing channels
plus any/all audio signals paired to each video channel; the sixth
stream containing signal from quadview processor plus audio signal
paired to quadview channel
Connection RTMP, RTP/RTSP, Unicast, Multiple Unicast, Multicast (IGMP v3)
Format Video - H.264 (MPEG 4/Part 10)
Audio - AAC
Resolution 720p, 1080p
Streaming (selectable) .5Mb, .75Mb, 1Mb, 2Mb, 4Mb
Connector 2 RJ-45 for 10/1000 Gig-E Ethernet port

Warranty:

The PESA XSTREAM is designed and manufactured by PESA for performance and reliability. PESA warrants this product for a period of one year.

Services:

Customer support is available 24 hours a day, 7 days a week by calling (800) 323-7372.

International customers call

+1 (256) 726-9222

In addition to our customer service support center, we offer extended warranties and online technical resources via our web site at:

www.pesa.com

On site or factory training is available for control system operations, technical, and maintenance training. Contact our technical support group for additional information.

Specifications subject to change without notice.

AUDIO & VIDEO OUTPUT CONNECTIONS

HDMI

Number 1 Full screen (selectable from any video and audio source)
1 Quadview (video quadview and any selectable audio source)

USB (VIDEO + AUDIO)

Type USB 2.0
Content Local output / selectable single channel or six simultaneous

USB (AUDIO)

Type USB 2.0
Content 8 pre-mix channels in uncompressed format

SDI (available with external HDMI to HD-SDI converter kit)

Number 2
Type 75 Ohm BNC's, using available accessories
Resolution Viewable Format: 720p, 1080
Power external unit uses 5VDC, 90-220VAC wall plug
NOTE: requires allocation of one HDMI connector on the frame

AUDIO

Type Analog
Number 2 (XLR line level – balanced)
Headphone 1/4" Stereo jack – front panel mounted
Audio Out 1 on left channel output and Audio Out 2 on right channel output

NETWORK CONNECTIONS

Number 2 RJ-45
Type Gig-E (100/1000)
Control Protocol HTTP, HTTPS (web control management software)

MECHANICAL

Form Factor 1RU
Mechanical 19.00W X 1.75H X 10.50 D
482.6 mm X 44.45 mm X 266.7 mm
Weight 4lbs

ENVIRONMENTAL and MISCELLANEOUS

Control Ethernet
Control Connection RJ-45
AC Input Connections IEC 320C14 socket (accepts IEC 320C13 line cord)
Network Control Supports PESA web-based control or by SDK kit
Input Voltage 90-260 VAC, 47-63Hz
Operational Temp 0-40 degrees C
Operational Humidity 90% Non-condensing

ACCESSORIES & OPTIONS

PRO-HDMI2HD-C Converts signals from HDMI port to SDI outputs
81902806970 Cable Assembly: Audio XLR to DB25M, 3m
81902806910 Cable Assembly: Ethernet Cable, 1m
81902807090 Cable Assembly: HDMI Cable, 3m
81902807100 Cable Assembly; USB Type A to Type B, 3m
call Storage Drive; 2.5" SATA, removable

ORDERING INFORMATION

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