

ClearOne® VIEW® Pro | Multimedia Streaming & Distribution

ClearOne's VIEW Pro multimedia streaming devices deliver the ultimate in high-quality, low-latency, 4:4:4 R'G'B' true color digital media over existing IP networks.



All VIEW Pro solutions employ H.264/MPEG4 Part 10 (AVC) compression – the common video encoding standard used by Adobe® Flash® Player, Blu-Ray™ disc players, iTunes®, Microsoft® Silverlight®, YouTube™, Vimeo, and HDTV signals over broadcast TV, satellite, and cable. ClearOne StreamNet® technology embedded within VIEW Pro encoders and decoders also facilitates automatic discovery, control, monitoring, and distribution.

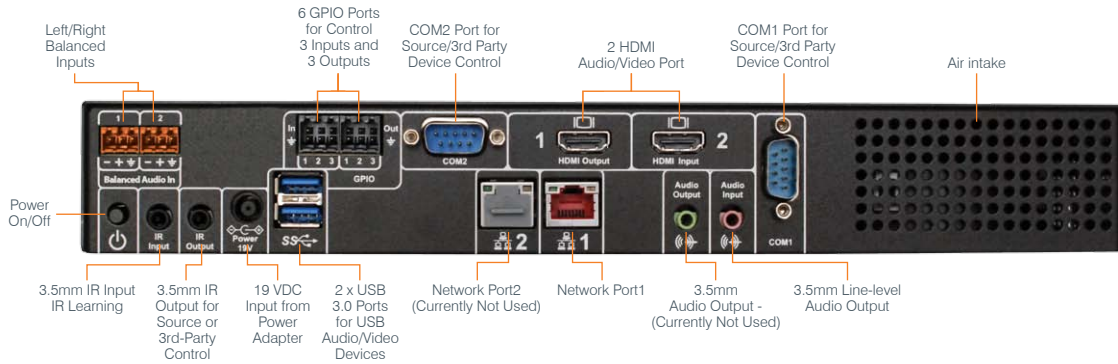
Venues

Corporate Communications
Hospitality and Entertainment
Education
Healthcare
Houses of Worship
Digital Signage

Features

- + Efficient H.264-based multimedia streaming with lossless compression, high-profile encoding
- + Very low end-to-end latency
- + Standard computer resolutions hot-swap supported, up to 1920x1200@60, scaling by decoder to match the connected display
- + High-quality video with 4:4:4 and 4:2:0 color space support and video scaling
- + Standards-based streaming formats: (RTP/RTSP)
- + Downloadable Software Licenses add powerful core capabilities to VIEW Pro
- + Compatible with StreamNet technology for auto-discovery and selection, configuration, and simple control using TouchLinX and VIEW Virtual Matrix software
- + RS232, GPIO, and IR support for trigger and control events
- + Full HDCP support
- + Control software on Windows®, Android™ & iOS

> VIEW PRO ENCODER E120 REAR PANEL



Functional Specifications

VIDEO

DIGITAL VIDEO CONNECTION(S)
X2 HDMI 1.4a inputs

SUPPORTED RESOLUTIONS

VGA 640x480, SVGA 800x600, XGA 1024x768, SXGA 1280x1024, WXGA 1440x900, SXGA+ 1440x1080 & 1440x1050, WSXGA+ 1680x1050, UXGA 1600x1200, HD720 1280x720, HD1920 1920x1080, WUXGA 1920x1200*, up to 60Hz
X2 via HDMI Input ports
(*scaled resolution)

COMPRESSION STANDARD

H.264/MPEG4 Part 10 (AVC) Baseline, Main, High profiles up to 4.2
Bit Rate: 1-150 Mbps
Rate Control: CBR, VBR

COLOR SPACE SUPPORT

24-bit, RGB 4:4:4, YCbCr 4:2:0

HDCP 2.1 SUPPORT

X2

SCALING SUPPORT

AUDIO

2 CH AUDIO ENCODING

LPCM (Uncompressed) MPEG4 AAC-LC
Sample Rate: (Khz); 11, 22, 24, 32, 44.1, 48, 96, 128, 192
Bit Rates: (Kbps); 32, 96, 128, 192, 320

2 CH BALANCED ANALOG AUDIO INPUT

THD+N = .006% @20dBu
Dynamic Range: 106dB
Frequency Response: +/- 0.5dB (20->20KHz)
Crosstalk: -80dB
Removable Phoenix 3.55mm (3 pos x 2)

2 CH UNBALANCED ANALOG AUDIO INPUT

THD+N = -84dB, Dynamic Range = 90dBA
SNR = 95dBA
Crosstalk = -80dB, 3.5mm phone jack (T/S/R 3 pos.)

DIGITAL AUDIO I/O

X2 input via HDMI ports

USB AUDIO

X1 Input

NETWORKING, CHANNELS AND PROTOCOLS

10/100/1000 RJ45
X2 Gigabit ports

VIDEO STREAMS (CHANNELS)

Up to 2 1080p@60Hz or 1920x1200@57Hz

AUDIO STREAMS (CHANNELS)

Stereo or multi-ch pass through
4 Streams (2 Analog (Stereo) and 2 Digital (Stereo or multi-ch))

UNICAST STREAMING STANDARD(S)

RTP/RTCP (RFC 3550)

STREAMNET DISCOVERY & CONTROL

Requires StreamNet 02.90.12 or higher

CONTROL

SERIAL RS232 PORT
Yes, DB9

IR OUTPUT

3.5mm phone jack (T/R 3 pos.)
(Compatible with StreamNet and other IR Emitters)

IR INPUT

3.5mm phone jack (T/S/R 3 pos.)
(Compatible with StreamNet IR Sensor only)

USB 3.0, 2.0

Future

GPIO INPUTS

X3, removable Phoenix 3.55mm (6 pos x 1)
Contact Closure sensor input

GPIO OUTPUTS

X3, removable Phoenix 3.55mm (6 pos x 1)
Latching Relay Contact Closure output 20V@1A Max

GENERAL

POWER

19VDC / @2A Normal Operation / @6A Max

REAR PANEL POWER BUTTON

Short press safe power cycle / long press forced shut down

POWER LED COLOR STATUS

State	LED Color
Normal	Blue
Boot	Green
Error	Red
Upgrade	Amber

MECHANICAL

DIMENSIONS (W x H x D)

12.2" (310mm) x 7.4" (188mm) x 1.75" (44.4mm)

MOUNTING

1 RU ears included, optional wall mount & VESA 100x100 bracket

THERMAL

0c to 40c (32F to 104F)

WEIGHT (UNIT)

5.3Lbs (2.4Kg)

PART NUMBER

VIEW Pro Encoder E120: 910-0000-001

SOFTWARE LICENSES

StreamNet Audio license: 910-0000-002
PANORAMA™ Video composition license: 910-0000-004
Multicast RTSP/UDP License: 910-0000-005

FUTURE UPGRADE OPTIONS

4K RESOLUTIONS QUXGA 3200X2400, UHD 3840X2160
Future upgrade options

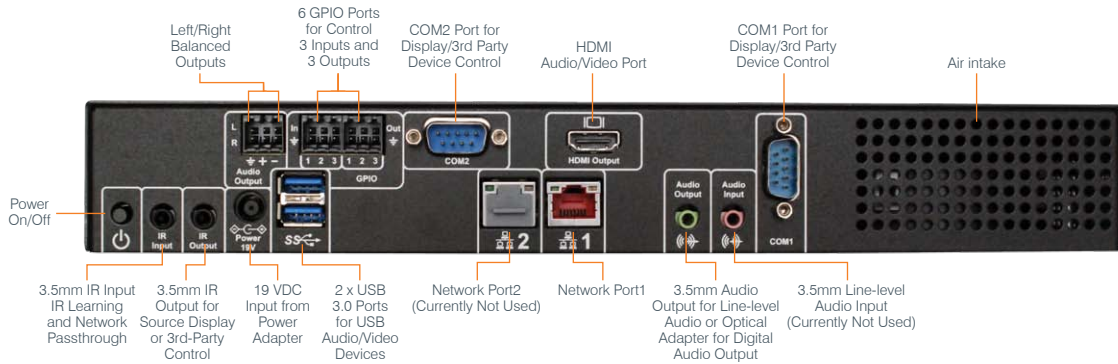
AUDIO MIXING FEATURES

Future license

USB HID FEATURES

Future license

> VIEW PRO DECODER D110 REAR PANEL



Functional Specifications

VIDEO

DIGITAL VIDEO CONNECTION

X1 HDMI 1.4a output

SUPPORTED RESOLUTIONS

VGA 640x480, SVGA 800x600, XGA 1024x768, SXGA 1280x1024, WXGA 1440x900, SXGA+ 1440x1080 & 1440x1050, WSXGA+ 1680x1050, UXGA 1600x1200, HD720 1280x720, HD1920 1920x1080, WUXGA 1920x1200*, up to 60Hz
X1 via HDMI Output port
(*scaled resolution)

COMPRESSION STANDARD

H.264/MPEG4 Part 10 (AVC) Baseline, Main, High profiles up to 4.2
Bit Rate: 1-150 Mbps
Rate Control: CBR, VBR

COLOR SPACE SUPPORT

24-bit, RGB 4:4:4, YCbCr 4:2:0

HDCP 2.1 SUPPORT

SCALING SUPPORT

AUDIO

2 CH BALANCED ANALOG AUDIO OUTPUT

Maximum Input Amplitude: 20dBu
THD+N = .006% (20dBu input)
Dynamic Range: 106dB
Frequency response: +/- 0.5dB (20->20KHz)
Crosstalk = -80dB
Removable Phoenix 3.55mm (6 pos x 1)

2 CH UNBALANCED ANALOG AUDIO INPUT

THD+N = -84dB, Dynamic Range = 90dBA
SNR = 95dBA
Crosstalk = -80dB, 3.5mm phone jack (T/S/R 3 pos.)
Future 3.5mm phone jack (T/S/R 3 pos.)
(Currently not used)

2 CH UNBALANCED ANALOG AUDIO OUTPUT

THD+N = -84dB, Dynamic Range = 95dBA
SNR = 95dBA
Crosstalk = -80dB, 3.5mm phone jack (T/S/R 3 pos.)

DIGITAL AUDIO I/O

X2 output via HDMI port & 3.5mm mini TOSLINK
(Requires 3.5mm to TOSLINK adapter)

USB AUDIO

X1 Output

NETWORKING, CHANNELS AND PROTOCOLS

10/100/1000 RJ45

X2 Gigabit ports

VIDEO STREAMS (CHANNELS)

1 1080p@60Hz or 1920x1200@57Hz

AUDIO STREAMS (CHANNELS)

Stereo or multi-ch pass through
Configured as 3 outputs of 2 Stereo analog, or 1 Stereo or multi-ch digital

STREAMNET DISCOVERY & CONTROL

Requires StreamNet 02.90.12 or higher

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SERIAL RS232 PORT

Yes, DB9

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MOUNTING

Wall mount included, optional 1RU rack ears and VESA 100x100 bracket

THERMAL

0c to 40c (32F to 104F)

WEIGHT (UNIT)

5.3Lbs (2.4Kg)

PART NUMBER

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SOFTWARE LICENSES

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PANORAMA™ Video composition license: 910-0000-004
Multicast RTSP/UDP License: 910-0000-005

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Future upgrade options

AUDIO MIXING FEATURES

Future license

USB HID FEATURES

Future license

ClearOne Contacts

North America
Tel: +801.975.7200
Toll Free: +800.945.7730
Sales: +800.707.6994
Fax: +801-303-5711
sales@clearone.com

Europe & Oceania
Tel: +44.1454.616.977
global@clearone.com

Asia Pacific
Tel: +852.3590.4526
global@clearone.com

Latin America
Tel: +1.801.974.3621
global@clearone.com

Middle East
Tel: +852.3590.4526
global@clearone.com