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.

**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

**Venues**

Corporate Communications
Hospitality and Entertainment
Education
Healthcare
Houses of Worship
Digital Signage
**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+ 1440x1050, SXGA+ 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**
  - 2CH Balanced Analog Audio Input
  - 2CH Balanced Analog Audio Input
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  - 2CH Balanced Analog Audio Input
- **USB AUDIO**
  - X1 Input
- **NETWORKING, CHANNELS AND PROTOCOLS**
  - 10/100/1000 RJ45
  - 4Gigabit 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

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**SUPPORTING SOFTWARE**

**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

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**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
**Functional Specifications**

**VIDEO**
- **DIGITAL VIDEO CONNECTION**
  - X1 HDMI 1.4a output

**SUPPORTED RESOLUTIONS**
- VGA 640x480, SVGA 800x600, XGA 1024x768, SXGA 1280x1024, WUXGA 1920x1200, UXGA 1600x1200, HD720 1280x720, HD1920 1920x1080, WUXGA 1920x1200*, up to 60Hz
- X1 via HDMI Output port

**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**
- Yes

**SCALING SUPPORT**
- Yes

**AUDIO**
- **2 CH BALANCED ANALOG AUDIO OUTPUT**
  - Maximum Input Amplitude: 20dBu
  - THD+N = -0.006% (20dBu input)
  - Dynamic Range: 106dB
  - Crosstalk = -80dB
  - Removable Phoenix 3.55mm (6 pos x 1)

- **2 CH UNBALANCED ANALOG AUDIO INPUT**
  - THD+N = -84dB, Dynamic Range = 95dB
  - SNR = 95dB
  - Crosstalk = -80dB, 3.5mm phone jack (T/S/R 3 pos.)
  - Future 3.5mm phone jack (T/S/R 3 pos.)
  - Contact Closure sensor input

- **2 CH UNBALANCED ANALOG AUDIO OUTPUT**
  - THD+N = -84dB, Dynamic Range = 95dB
  - 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)

**NETWORKING, CHANNELS AND PROTOCOLS**
- 10/100/1000 RJ45
- X2 Gigabit ports

**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
  - 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**
- 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**
- VIEW Pro Decoder D110: 910-0001-001

**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