

NEXTIVA HDR 1800 HIGH DEFINITION VIDEO RECEIVER / DECODER

TECHNICAL SPECIFICATIONS

SECURITY SYSTEM

DIVISION – 28 ELECTRONIC SAFETY AND SECURITY

LEVEL 1 __28 20 00 ELECTRONIC SURVEILLANCE

LEVEL 2 __28 23 00 VIDEO SURVEILLANCE

LEVEL 3 __28 23 29 VIDEO SURVEILLANCE REMOTE DEVICES AND SENSORS

PART 2 – PRODUCTS

2.01 GENERAL

- A. All equipment and materials used shall be standard components that are regularly manufactured and utilized in the manufacturer's system.
- B. All equipment and components shall have been thoroughly tested and proven in actual use.
- C. All equipment and components used shall be RoHS compliant and WEEE certified.
- D. All equipment and components used shall be CE-marked and FCC-certified.

2.02 SYSTEM SPECIFICATIONS

- A. The High Definition Receiver (HDR), or the Video Decoder, or simply the receiver shall be compatible with the Nextiva Virtual Matrix application.
- B. The HDR shall be compatible with the Verint Nextiva Edge Device Portfolio

2.03 FUNCTIONAL SPECIFICATIONS

- A. The receiver shall process digitally compressed video into uncompressed analog or digital video ready to be displayed on a video monitor.
- B. The receiver shall display the processed video on LCD, Plasma or Composite monitors.
 - a. The receiver shall be compatible with LCD Monitors with resolution up to 1920x1200.
 - b. The receiver shall be compatible ~~to~~ with Plasma Monitors with resolution up to 1920x1080.
 - c. The receiver shall be compatible with NTSC and PAL composite video monitors.
- C. The receiver shall decode the following video compression format:
 - a. H.264 also known as MPEG-4 Part10 (Baseline and Main Profile)
 - b. MPEG-4 (Part 2)
 - c. MJPEG
- D. The receiver shall be able to decode and render the equivalent of one of the following:
 - a. One (1) H264 video streams with resolution of 1920x1080 pixels.
 - b. Six (6) H264 video streams with resolution of 704x480 pixels.
- E. The receiver shall be able to render video on one or two video monitors, with the following options:
 - a. DVI-D + RGB (VGA)
 - b. DVI-D + Composite
 - c. DVI-D only

- d. RGB (VGA) only
 - e. Composite only
- F. The receiver shall be capable of displaying up to 18 video tiles on two video monitors.
- G. The receiver monitors shall be configurable to display video in one of the following layout:
- a. Single view
 - b. 2x2 (Quad) view
 - c. 3x2 view
 - d. 3x3 view
 - e. 4x4 view
- H. The receiver shall support compressed video streams with resolution from 352x240 pixels to 2048x1536 pixels.
- I. The receiver shall support audio streaming with and line-level output.
- J. Part of a virtual matrix environment, the receiver shall be capable to receive and process PTZ data from CCTV keyboard connected through the serial interface, and to control PTZ dome cameras.
- K. The receiver Video latency between live scene and video rendering shall be less than 190ms
- L. The source to rendering video latency shall be less than 190 ms, excluding network transmission latency
- M. The receiver shall be configurable remotely via the network, from the Nextiva Video Management software.
- N. Multiple receivers shall be able to be centrally managed to form a video wall with several video monitors.
- O. The receiver shall work in a multisite environment and being able to display cameras from remote sites.
- P. The receiver firmware, including the video codec, shall be upgradeable remotely via the network, from the Nextiva Video Management Software.
- Q. The receiver shall have an embedded operating system (OS) running from solid state flash memory and not from hard disk drive (HDD).
- R. The receiver shall possess an internal watchdog to detect and recover from the unlikely occurrence of system lockup.
- S. The receiver shall have an MTBF of at least 80,000 hours.
- T. To improve reliability, the receiver shall be powered by an external power supply.

2.04 INTERFACE SPECIFICATIONS

- A. The composite video output shall consist of 1 composite NTSC or PAL (1 Vpp into 75 ohms) video signals through female BNC connectors.
- B. The digital DVI video output shall consist of 1 female DVI-D connector.

- C. The analog RGB video output shall consist of 1 female DE-15 (VGA) connector.
- D. Two auto-sensing 10/100/1000 Base-T connector (RJ45) shall be part of the receiver, LAN 1 for main connectivity and LAN2 for maintenance activities.
- E. The receiver shall receive video using the RTP/UDP/IP unicast, RTP/UDP/IP multicast or TCP/IP communication protocol.
- F. The receiver shall support the following IP protocols: RTP/IP, UDP/IP, TCP/IP, multicast IP, and FTP.
- G. The receiver shall support an RS-232 asynchronous serial port on DB-9 male connector that can be programmed for data rates up to 230 kbps for CCTV keyboard connectivity.
- H. The receiver shall support an RS-422 asynchronous serial port on DB-9 male connector that can be programmed for data rates up to 230 kbps for CCTV keyboard connectivity.
- I. The receiver shall support 1 USB host port for maintenance purpose.
- J. The receiver audio output shall use a standard 3.5 mm stereo jack and be able to drive line-level outputs.

2.05 PHYSICAL SPECIFICATIONS

- A. The receiver shall be wall or rack mountable and shall occupy no more than 1U of standard 19 inch rack space.
- B. The receiver shall be enclosed in a compact and durable steel enclosure with size not exceeding 11W X 7.5D X 1.7H inches (280W x 190D x 44H mm).
- C. The receiver weight shall be 4.2 lbs (1.9 kg) or less.
- D. The receiver shall operate from an external 19V DC power supply via an industrial pluggable screw-terminal block.
- E. The receiver shall consume less than 30 watts.
- F. The receiver shall be equipped with adjustable fan speed efficiently managing device noise level and power consumption.

2.06 ENVIRONMENTAL SPECIFICATIONS

- A. The receiver shall be specified for operation in temperatures from 0°C to 40°C (32°F to 104°F) without forced air cooling and humidity from 0 to 95% non condensing at 40°C (104°F).

2.07 CERTIFICATIONS

- A. The receiver shall meet the following EMI/EMC certifications and regulations:
 - USA: FCC part 15 subpart B class A
 - Canada: ICES03 class A
 - Europe: CE marking (EN55022, EN55024)

- B. The receiver shall meet the ROHS and WEEE regulations.
- C. The power supply used to power the receiver device shall be energy efficiency level V qualified.

2.08 WARRANTY AND SUPPORT

- A. All systems and components shall be provided with the availability of a toll-free (US and Canada) Technical Support number from the manufacturer. This shall allow for technical assistance and break-fix support for the dealer/integrator/installer or the end user at no charge for the stated warranty period.
- B. Each dealer/integrator/installer and end user shall have access to a password-protected partner portal for Web-based technical assistance on a 24-hour basis. This site will enable downloads of software updates, manuals, review of frequently asked questions.
- C. All systems and components shall have a five to seven business day target turnaround for repair service. This target excludes all customer pending tasks and shipping time and is subject to change due to parts availability and volume. The repair and parts shipping shall be guaranteed by the manufacturer.
- D. Any device that fails within 60 days of shipping is considered a DOA (Dead on Arrival) and will be advance replaced at the manufacturer's cost.
- E. The receiver shall have a 2-year warranty (parts and labor) for Americas.

2.09 VERINT MODEL NUMBERS

- A. NEX-6.1-HDR1800
High-Definition Receiver (video), dual display support, DVI+VGA or DVI+TV out. For Nextiva 6.1 Virtual Matrix solution. Power supply, Rack Mount and Wall Mount kits included.