

# cinedeck **RX**



Avid DNxHD

CineForm

ProRes

UNCOMPRESSED 422

UNCOMPRESSED 444

## CINEDECK RX

The world's most versatile, multi-format, multi-channel, rack-mountable HDSDI recorder—specifically designed for outside broadcast and mobile production environments.

### RECORD:

Capture natively in all leading production formats to cost effective SSD media. Records all Avid DNxHD formats (MXF), all Apple ProRes formats including 4444, CineForm and uncompressed 444 (10-bit) or 422 (8 or 10-bit).

Unique "double dual-stream" feature provides simultaneous redundant file capture, each to a pair of disks. Flexibility to capture two channels at a time with one codec (multicam), each writing redundant disk copies simultaneously or capture one channel with two different codecs with redundant disk copies of each. [For example: 1 Avid DNxHD, 1 Apple ProRes]

### MONITOR:

Monitor video in realtime with the high-resolution 7" display while using an array of onscreen image analysis tools such as edge focus, clipping, waveform, vectorscope and histogram to seize perfect control of your recording. Monitor audio via the headphone jack and toggle between audio inputs while simultaneously viewing the on-screen recording level display. Intuitive touchscreen user interface eliminates confusion and ramp up time.

### PLAYBACK:

Review your shots instantly in any order via VTR-style controls on the high quality screen or realtime on an external monitor. Utilize image analysis tools on playback to ensure quality control.

## DESIGNED TO SAVE TIME AND MONEY

Cinedeck RX offers unsurpassed codec choice, flexible connectivity, and incredible production versatility presented in a simple and elegant user interface.

- **It's indispensable.** It's a network accessible recording deck and preview/playback monitor in a compact 4RU half-rack package. It does realtime up/down/cross conversion. It even captures stereoscopic 3D via HDSDI or HDMI.
- **It's mobile.** It's designed for the mobile production environment, where space is at a premium and things like cooling and power draw are of utmost importance. The rugged milled aluminum case is built for the road. Multicam mode doubles the productivity in the same half-rack footprint.
- **It's massively compatible and fast.** Footage is immediately ready for editing in Apple Final Cut Pro, Avid Media Composer, Adobe Premiere Pro, Sony Vegas, and GV Edius. Time consuming and costly ingest and transcoding have been eliminated.
- **It connects.** The choice of video, audio, and IT connections including two 3G HDSDI, HDMI and LAN means it works for any production.
- **It's secure.** Redundant file creation on separate discs and redundant hot swappable power supplies protect your capture.
- **It's under control.** Manage files either by touchscreen or via remote TCP/IP record/playback Cinedeck Controller application. A single user interface can control up to 24 channels (12 Cinedeck RX systems).
- **It protects your investments.** It extends camera life by enabling cameras with high quality sensors to bypass their lesser quality onboard tape or media recorders. Also, its architecture is designed to be able to upgrade to new features or codecs.

## CINEDECK RX I/O

### FRONT PANEL I/O:

- 2.5" Removable SSD Drive (4)
- Configurable 4-pin GPI/O
- USB 3 (2)
- USB 2 (1)
- eSATA (1)
- Stereo mini headphone jack
- Mini mic in
- Mini line in

- Ambient Timecode LEMO (optional)
- eSATA connector
- Redundant Power LEMO Connections
- Balanced 2 CH Audio I/O
- Per-Channel Line/Mic & Phantom Power Switches For On-Board Audio Input



REAR PANEL

- 3G Single or Dual Link HDSLI
- Second camera I/O (multicam mode)
- HDMI v1.4 Record In & Monitor Out
- Dual GigE NIC
- AES Audio I/O
- IRIG and LTC Timecode
- Analog Component; Composite; Y/C
- Sync

## CINEDECK RX SPECIFICATIONS

### FORM FACTOR

- 7" h x 8.5" w x 9" d (17.8cm x 21.6cm x 22.9 cm); 4 RU half rack, 10lbs (4.5kg)
- Four removable 2.5" SSD disk drives, front accessible
- Redundant wide input DC power: 12-28V (via dual wall adapters)
- Rugged anodized aluminum enclosure for extreme durability
- Less heat, less power, less weight, less size, more capability than other decks

### MONITORING

- Simultaneous pass thru of incoming signal for on-set monitoring
- Realtime HD to SD downconvert
- Realtime SD to HD upconvert
- All video outputs available for monitoring / signal pass thru
- Stereo headphone jack for audio monitoring, front accessible

### RECORDING

- Unique "double dual-stream" feature provides simultaneous redundant file capture, each to a pair of disks
  - Capture two channels at one time, with one codec, each writing 2 disk copies (master/safety) simultaneously OR
  - Supports full mix/match of simultaneous recording of one channel to any two codecs with redundant disk copies of each [For example: 1 Avid DNxHD, 1 Apple ProRes]

### DISPLAY

- Large 7" high-res (1024x600) touchscreen display for realtime preview, focus, and review; 800 NITS brightness; Adjustable viewing angle
- Realtime composite and per-channel waveform, vectorscope and histogram for accurate quality control; available in overlay or full screen mode
- On-screen reticule overlays: grids, crosshairs, safe frames, metadata, and letterboxing (opaque mask mode available)
- Intuitive gestural touch-screen interface designed for ease of use... most overlay functions available during record

### SUPPORTED CODECS

- Apple ProRes: 4444, 422 (HQ), 422, 422(LT), 422 (Proxy)
- Avid DNxHD: 175/185/220x, 175/185/220, 115/120/145, 36/45 recording MXF OP-Atom or .MOV
- CineForm: Neo (for 3D), FilmScan1, FilmScan2, Keying, High, Medium, Low
- Uncompressed 444 (10-bit) or 422 (8 or 10-bit) recording .MOV (via single or dual-link 3G HDSLI and HDMI)

### SUPPORTED RESOLUTION AND FRAME RATES

- HD
  - 1080 50/60i
  - 1080 23.98/24/25/29.97/30 P/PSF
  - 1080 50/59.94/60 P/PSF
  - 720 P 50/59.95/60
- SD—PAL/NTSC

*Note: Stereoscopic support for all resolutions and frames rates up to 10-bit 422 uncompressed; uncompressed 444 records single channel only.*

### OTHER FEATURES

- Ready to edit content recorded to disk: simply eject an SSD and put it in your editing system for a rapid (eSATA or USB) file copy to Mac or PC
- Included record/playback control application drives one or multiple CineDeck RX systems via TCP/IP from workstation
- Network-accessible browse and playback via dual GigE ports
- Front accessible USB2, USB3 (two) and eSATA connections for copying to external storage
- Realtime upconvert/downconvert/crossconvert between more than a dozen resolution/frame rate combinations
- Upgradeable architecture designed for feature or codec expansion
- SDI Link, choice of LTC or IRIG, and internally generated timecode support on ingest with on-screen timecode display and programmable offset/start values
- Optional Ambient™ Master Clock option for jamsync to external clock source