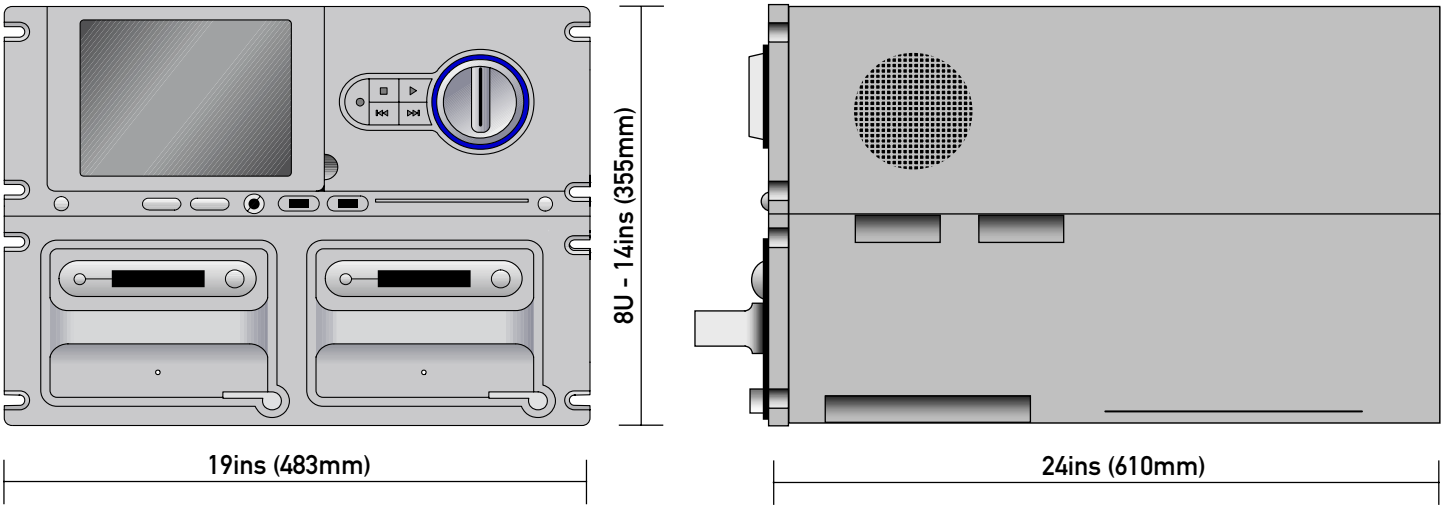
SPECIFICATIONS: RECORDER

Specifications



Power: 115/230V AC
Weight: 35kg (unloaded), 45kg (with 2 DiskPacks)
Operating temperature: 5 – 40° centigrade
Display: tilting 8.4" VGA daylight readable with touchscreen
Optical drive: DVD recorder with support for DVD-RAM, DVD-R/W, DVD+R/W, CD-ROM, CD-R, CD-RW
Front panel connectors: 2 x USB-2.0, ¼" stereo headphone jack
Front panel transport controls: record, play, stop, forward, back, playback shuttle control
Front panel controls: power, display brightness, headphone volume control, DVD eject, 2 x DiskPack locking levers

Video & Audio I/O

2 x BNC HD-SDI input (A and B channels) (dual stream option: additional 2x HD-SDI in)
2 x BNC HD-SDI output (A and B channels) (dual stream option: additional 2x HD-SDI out)
1 x BNC genlock input (HD analogue bi- or tri-level sync)
1 x DVI-I video monitor output (dual stream option: additional DVI-I video monitor output)
3 x XLR AES/EBU digital audio in (6 channels as standard - 2 additional channels in place of LTC in optional)
3 x XLR AES/EBU digital audio out (6 channels as standard - 2 additional channels in place of LTC out optional)
1 x ¼" jack stereo headphone monitor output
1 x XLR LTC timecode input
1 x XLR LTC timecode output
1 x GPI record trigger input
2 x DB-9 RS-422 remote I/O

Optical I/O (4K Option Only)

4 x 1310nm single mode fibre on Tyco Pro Beam Jr connector

Network

2 x 1Gb/100Mb/10Mb Ethernet ports, 1 x 10Gb Infiniband port (option)
1 x 10Gb Ethernet port (option)

Supported video formats

Format:	Colourspace:	Frame Rate:
1920x1080i/sF/p	10-/8-bit YCbYCr 4:2:2 or 10-/8-bit RGB 4:4:4	23.98, 24, 25, 29.97, 30 fps
1920x1080p	10-/8-bit YCbYCr 4:2:2 dual-link	47.95, 48, 50, 59.94, 60 fps
1280x720p	10-/8-bit YCbYCr 4:2:2 or 10-/8-bit RGB 4:4:4	50, 59.97, 60 fps
4096x2048p	14-bit Bayer 2:1:1	23.98 – 30 fps (4K option only)

Dual-stream option available for simultaneous capture from A & B HD cameras
Real-time internal demosaicing of Bayer pattern material and downsampling of 4K material to HD for monitoring purposes

Supported audio formats

16/24-bit at 48kHz, AES or HD-SDI embedded audio as standard

Supported timecode / metadata formats

LTC in/out
VITC (ANC) in/out
RP215A support for extraction of embedded metadata in HD-SDI input signals

Storage

2 x removable 720GB or 1.4TB (Terabyte) DiskPacks with RAID-3 protection against drive failure
DiskPacks can be paired for real-time mirroring of all data
Optional real-time or dual-system mirroring support (requires Infiniband option)
Battery-powered DiskPack display shows health, status, free capacity and shot information when removed from system

Example 1.4TB pack capacities: 1 x DiskPack holds approx 54 mins of 4K 24fps material
1 x DiskPack holds approx 100 mins of 1920x1080sF 10-bit RGB 4:4:4 24fps material

Interface

Touchscreen-based graphical user interface
Image thumbnail or database-style view of all data on system
Shot-logging and management facilities - add camera/lens/shot/continuity metadata to all takes
Interface can be run locally, or can be run remotely on a laptop computer or PDA via secure wireless connection

Virtual File System

Network access via NFS or Samba
Flexible file / directory permissions
Fully customizable directory and file-naming based on shot metadata
User-configurable file-format view over network - each user can choose in which format they wish to view the same data
Examples of supported file-types: MXF, DPX, QuickTime, AVI, BMP, JPG, WAV
Data conversions processed on-the-fly by powerful twin dual-core processor system
Optional image resizing, colourspace conversion and LUTs
Optional image compression

For further information on the Codex Digital Media Recorder, contact:

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