

Deva 16

The **Deva 16** is a 16 track hard disk audio recorder for film and television production. With 8 hardware faders and built in hard drive, DVD-RAM and flash memory slot the **Deva 16** is a complete solution of recording, mixing and effects in one package.



features

- 16 track recording on built in hard disk, DVD-RAM or flash media
- 8 hardware faders
- 12 Analog input, 8 Mic / Line + 4 Line balanced with 48V phantom power
- 8 Digital inputs
- 8 digital direct outputs
- Built-in 16 channel mixer
- EQ, notch filter, compressor and delay on each channel
- Mix to disk or outputs pre or post fader
- Record to external fire wire drive w/no additional computers
- Full metadata entry directly on Deva
- Intuitive integrated color touch screen interface
- Sample rate converting AES inputs

Zaxcom

Deva 16



- Fault tolerant multi-disk recording with automatic file recovery ensures that you deliver every bit of recorded audio even up to the point of an unexpected power failure. As an extra precaution, power switches automatically from external to internal in the case of external power loss.
- The **Deva 16** has three internal recording mediums ensuring you can always have a copy of your recorded audio on set allowing production to instantly reference previous recordings. Disputes with post regarding recording issues can be immediately cleared up and extra copies of recorded audio can be produced in the case of lost, damaged or stolen material.
- The **Deva 16** is small and light enough to be comfortable in over the shoulder applications. The display, controls and 8 hardware faders are mounted on the top of the unit making over the shoulder and cart use convenient.
- The color touch screen makes the **Deva** the most intuitive and powerful recorder available. It is the most intuitive and flexible method to control a location recorder. Large high-resolution color meters provide a precise indication of recording levels not available on any other recorder.
- With pre-record you'll never miss the start of a take; it allows for up to 10 seconds of audio to be recorded before the record button is pressed. Time code is automatically recalculated to assure sub frame accuracy.
- **Deva** offers direct Avid™ and Protools™ compatibility, saving a tremendous amount of time loading files in post production.
- Scene, Take, Note and roll number metadata can be entered into the **Deva** using the color touch screen display, the **Deva Mix-12** or an external PS2 keyboard. This data becomes part of the file and is automatically imported into the Avid post production system. All metadata is easily edited on the **Deva** to assure post gets the correct info for each take.
- Circle takes and false starts can be quickly noted with dedicated hardware keys.
- Infinitely flexible internal 16 input and 24 bus digital mixer is a must for surround recording. Analog input limiters provide protection against harsh digital clipping.
- Each channel on the **Deva 16** is equipped with EQ, notch filter, compressor and delay.
- The **Deva** incorporates the necessary phase coherent digital mixing and fader master capability to successfully record surround in the field. 3D sound reproduction is very dependent on time, phase and amplitude. A surround microphone and the **Deva** is all that is necessary to capture the audio world in 3D.
- Flexible headphone monitoring including M-S matrix, numerous factory presets, personal presets and a Soundfield™ Decoder let you listen to what you need to hear.
- The 8 digital outputs can be individually switched between output bus configuration and direct digital out. The direct digital outputs allow input channels to be seamlessly routed to feed external backup recorders.

Deva 16 specifications



input

12 Analog: 8 Mic/Line + 4 Line balanced with 48V phantom power

Connector: XLR

Dynamic Range: 120dB

Mic Level Range: -56dBu to -26dBu

Line level range: -26dBu to +8dbu

Digital: 4 AES pairs (8 channels) with SRC

Frequency Response: 20Hz to 22kHz

THD + Noise: 0.001%

Input Clipping Level: +28dBu

Input Limiters: 8

High Pass Filter: 30Hz to 240Hz adjustable, 6dB per Octave

output

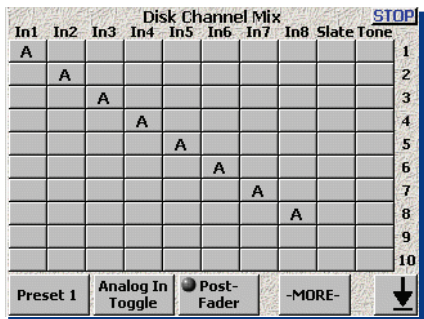
6 Analog: Balanced 0dBu at -20dB FS digital

Connector: DB25 with XLR breakout

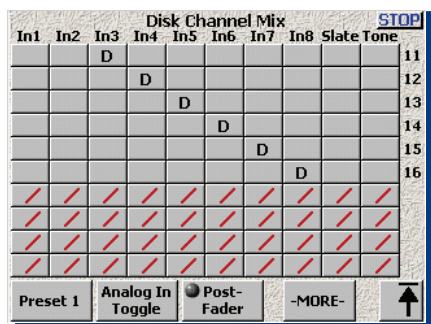
Digital: 4 AES pairs (8 channels)

Line Output Clipping Level: +20dBu

AES Output: user selectable, Mix or Direct out



Output Mix Screens



230 West Parkway, Unit 9 Pompton Plains, NJ 07444
(p) 973.835.5000 (f) 973.835.6633 www.zaxcom.com

internal mixer

Mixer type: 32 bit floating point DSP

Mixer cross point: 16 input x 24 output
(Pre-fader / Post-fader / Phase Inversion)

A-D / D-A Conversion size: 24 bit

Head Room: Selectable 12-20dB

effects

EQ: 3 band parametric selectable shelving or peak type

Notch filter: 2 band 20Hz to 20kHz frequency range adjustable

Compressor type: Soft Knee

Compressor adjustments: Attack, Release, Threshold, Ratio, Make-up Gain

Expander Adjustments: Attack, Release, Threshold, Ratio

recording

Track Count: 16

Pre-record: 0-10 seconds

data storage

Internal: Hard Drive, Internal DVD-RAM drive and Compact Flash media slot

External: Disk interface: IEEE 1394 firewire port with host mode control (supports many DVD-RAM and external hard drives)

Firewire host power: 15 Watts

file formats

Internal Hard Drive: Mobile Audio Recording Format (MARF) II

Internal DVD-RAM / CF Slot / External: Fat 32 writing Broadcast Wav mono or poly or .Zax

File Resolution: 24 bit or 16 bit selectable

Sample rate: 44100, 47952, 48000, 48048, 88200, 96000, 96096, 192kHz

misc.

Display: Full color LCD

Meters: Vertical or horizontal, user selectable

Word clock output to drive external mixers

Full featured timecode reader / generator

Timecode rates: 23.976, 24, 25, 29.97 DF, 29.97 NDF, 30 DF, 30 NDF

Built-in Slate Mic

Operating Temperature: -20 C to 60 C

Weight: 7.4 lbs w/out battery

Dimensions: 10.5" x 8" x 3.75"

PS2 Port: Supports Zaxcom recommended PS2 compatible keyboards

power

Internal NP1 12-18 V - 6 hours usage (Li-ion)

External 10-18 VDC

Battery meter on LCD display

optional accessories

Hard drive caddy

Analog Output cable

Also available: Deva Mix-12

