

bonsai
DRIVE

ROSENDAHL



LESS WORK - MORE PLAY

The new Rosendahl **bonsaiDRIVE**

is a miniature high quality portable video and multitrack audio hard disc recorder aimed at the film and video post production, video assist and multimedia markets. As an instant access stand alone recorder, it will certainly also find its place in the video monitoring and security industry.

bonsaiDRIVE was born from the idea of having a complete stand alone, synchronisable hard disc recorder as a portable media storage device, instead of a removable hard disc of comparable size and weight.

Running on mains or 12 volts DC, the unit records uncompressed 4:2:2 PAL or NTSC

video together with 10 audio channels on standard IDE hard disc drives.

A Huffman codec provides a lossless video compression of 2:1 resulting in a superior video picture and a data transfer rate of 10 Mbyte/s, which is well within the capabilities of standard IDE drives.

The audio channels are arranged as an analog stereo pair and a digital 8-channel ADAT stream and are 24-bit at 48 kHz sample rate.

Professional synchronisation I/Os include timecode, Sony 9-pin remote control, MTC, MMC, video sync input, word clock output and GPIOs to allow perfect integration in postproduction or multimedia installations.

The front panel can be removed from the machine and used as a separate remote control with a standard 9-pin cable connection. A second 9-pin connector allows an additional external machine controller to be connected.



All configuration menus and settings are implemented as an interactive on screen video display, together with insertion of timecode and audio levels in the program video if required.

As each frame is recorded individually, jog, shuttle and playback from 0 to +/- 200% can be realised with playback

similar to a professional, analog VTR. Sync audio is output in all modes including reverse, jog and shuttle giving a »Tape playback« feeling.

bonsaiDRIVE's firmware can be updated through any serial port of a computer (Midi or COM). Loader programs for PC or MAC as well as the firmware files are available at www.bonsaidrive.com

All recordings are organized as unique clips and can be arranged as a movie playback with an EDL. The timecode start value and timecode framerate (eg 24 Fps 30 Fps telecine) can be selected independent of the recording format.

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SPECIFICATIONS

Analog Video Inputs

Composite video 1 x BNC, or S-video (Y/C) 2 x BNC, or Component-video 3 x BNC.

A/D: 10-bit uncompressed video

Analog Video Outputs

Composite video 1 x BNC and S-video (Y/C) 2 x BNC, or Component-video 3 x BNC.

D/A: 10-bit uncompressed video

Analog Audio Interface

Stereo input +6dB

2 x RCA/Cinch.

Outputs +6dB,

2 x RCA/Cinch.

AD/DA: 48kHz, 24-bit uncompressed audio

Digital Audio Interface

1 x ADAT 8-channel optical input, 1 x ADAT 8-channel optical output, 48 kHz, 24-bit uncompressed audio

Storage Media

Single 3.5" IDE drives, ATA-133, 28 or 48-bit LBA address mode

Sync Reference

Internal, External Black and burst video (1 x BNC) or selected video input

Word Clock Output

48KHz, 3.5 Vpp @ 75ohm, 1 x BNC, clock jitter < 1ns

Timecode

LTC input -40 to +20 dBu, 1 x RCA /Cinch. LTC output 1Vpp, 1 x RCA/ Cinch

Midi

MTC, MMC and Rosendahl sysex for firmware updates
Midi input 5-pin DIN, Midi output 5-pin DIN

RS422-Remote

Sony P2 protocol, Rosendahl Bonsaitalk, 3 x 9-pin D-SUB

GPI/O

4 x TTL input, 4 x TTL output (50mA source and sink) 15-pin D-SUB

Dimensions

227mm W x 62mm H x 191mm D, Weight 1.6 kg without hard drive

Power

Two versions available:
Mains-version 90-260 VAC, 50-60Hz, 25 Watts, IEC.
DC-version 10-18V, 2A, XLR 4-pin



CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN

90-260 VAC
50/60 Hz



DESIGNED AND MANU-
FACTURED IN GERMANY

adat[®]
OPTICAL

DIGITAL
AUDIO

OUT IN

MIDI

OUT IN

ANALOG VIDEO OUTPUT

C/V Y/U CVBS/Y

ANALOG VIDEO INPUT

C/V Y/U CVBS/Y

OUT

WORD

IN

SYNC

OUT IN

TIME CODE

R L

AUDIO OUT

R L

AUDIO IN



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