

**NAGRA**

NAGRA V

Order # 70 31001 000

24 bit Linear Location Recorder

Features

2 channels (24 bit, 96 kHz AD / DA)	Pre-recording buffer
Post-production compatible (BWF files)	LCD display
SMPTE Time Code	Self-contained
Affordable medium (2.5" Hard drive disk)	Lightweight
Built-in matrix and MS decoder	Reliable

Applications

The NAGRA V is designed as the successor to the NAGRA IVS-TC and a replacement for R-DAT. NAGRA V is a light, compact and reliable recorder manufactured to suit on-the-shoulder / on-location engineer needs. Its high quality also makes it a good alternative for music recordings.

Recording Medium

The removable 2.5" hard drive allows more than 20 hours of 48 kHz 24-bit recording (for a 20 GB, price around 100 €). The hard drive drawer can simply be connected to a PC or a Mac using: USB2 / PCMCIA / Firewire adapter. They also can be plugged into a 3.5" IDE bay. Transfer is made easy, fast and at an affordable price.

Broadcast Wave Format

BWF is a Wav file that includes information such as Time Code. BWF is normalized by the EBU (European Broadcast Union) and recommended by the AES31 (AES 31-3-1999).

While BWF is recognized by both PC and Mac as a standard WAV a professional software and workstation will see the TC related information (compatible with: AATON Indaw ver 6 under NT, Digidesign Protools since version 5, Merging Technologies Pyramix, Fairlight MFX and QDC, Sadie). For more information, please download our Nagra V post-production document "Nagra V post".

Time Code option

The TC option (Order # 70 31120 000) offers both a synchronizer and a generator. Fully SMPTE compatible, it includes all current frame rates. The TC card can be installed at any time by a Nagra certified technician.

Special features

M/S decoder	Available on the headphone as well as the analogue outputs
Limiter	Optional limiter board on microphone preamplifier (Order # 70 31113 000)
Dithering	On the AES output, dithering from 24 to 16 bits for back-up on a DAT or a CD recorder
Pre-recording	User programmable up to 20 sec
Camera return	Stereo monitoring on a 1/4" jack plug

Specifications

General

Data storage medium	2.5" hard drive disk, Fat 16 / 32 formatted
Recording format	Linear PCM
A/D and D/A conversion	24 bit Sigma-Delta
Sampling frequency	44,1 – 96 kHz (optional 88,2 and 96 kHz Order # 70 31145 000)
File format	BWF (Broadcast Wave Format)
Filters	"LFA" and "SPEECH"

Inputs

Mic inputs	2 x XLR (Dynamic, "T" Powering and +48V Phantom)
Sensitivity	2, 10 and 40 mV/Pa
Line input	15 pin SUB "D" connector
Line input sensitivity	1.5V to 4.4V for 0 dB recording 0.44 V to 4.4 V for 0 dB recording
Digital input	Using special cable on 15 pin SUB "D" connector
External reference	15 pin SUB "D" connector or BNC. (Word clock, video etc)

Outputs

Analogue line outputs	2 x XLR (4,4V max)
THD at 1 kHz	0.1 %
Frequency response	30 - 20 kHz (-3 dB in EE mode) 30Hz to 20 kHz (+0 dB -1 dB) at 48 kHz
Total dynamic range	Typical 98dB
Headphone	Stereo ¼" Jack Stereo with level adjustment
Digital output	AES 3 pin XLR
Time Code In / Out	5 pin LEMO

Power supply

Li-ion pack	7 hours of operation (also works 5 hours on 8 "D" cells)
DC Power	6 – 13,8 V on 4 pin XLR's

Physical

Dimensions	290 x 220 x 115mm (11.4 x 8.6 x 4.5")
Weight	2.75 kg (6 lb) without battery box (3.5 kg with Li-ion battery / 7.6 lb)
Quality control	Every machine is tested: 1 cycle -10°C to +60°C for 12 hours
Humidity	From 10% to 99% (non condensing)

Optional accessories

External accessories

70 19111 000	NA-BB8B	Battery Box for 8 "D" cells
70 31110 000	NV-LIB	Battery box with Lithium ion battery pack 65W
20 31150 000	NV-PSU	Mains power supply for NAGRA V and charger for NV-LIB
20 99190 000	NA-SCC4	Soft carrying case for ARES-C with Li-ion battery box
20 99197 000	NA-SCCXL	Extra large Soft carrying case for ARES-C with 8 cells battery box
70 31150 000	HD-20G	Removable drawer equipped with a 20 GB IDE Toshiba hard disk
70 31152 000	HD-40G	Removable drawer equipped with a 40 GB IDE Toshiba hard disk
70 31153 000	HD-60G	Removable drawer equipped with a 40 GB IDE Toshiba hard disk
20 97937 000	HD-USB	Adapter IDE drawer / USB2
20 97939 000	HD-FW	Adapter IDE drawer / FireWire (IEEE 1394)
70 31100 000	NV-COM	PC software for NAGRA V (Windows version)
70 10540 000	ND-PCA	RS232 / 422 adapter for linking PC to NAGRA recorder

Cables

20 95970 000	CXLR-FM	3-pin XLR Cable male-female 1.5 m (5 ft)
20 95974 000	C-LIN-FF	Line input adapter (15-pin mini "D" 2 XLR 3-pin female 1.5m - 5 ft)
70 31114 000	NV-CDI	Digital input adapter (15-pin mini "D" XLR 3-pin female 1.5m - 5 ft)

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