



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

MIS 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 OdB recording 0.44 V to 4.4 V for OdB 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 pinLEMO

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 I 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 <i>L.Sm</i> - S ft)
70 31114 000	NV-CDI	Digital input adapter (15-pin mini "D" XLR 3-pin female <i>L.Sm</i> - S ft)

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NAGRA V October 02
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