CREATING
ARCHIVE
INNOVATIONS

*ingest*LINE™ PICO

NOARecord PICO

NOARecord Pico bundles software and hardware to form a stand-alone digitization system for legacy audio carriers. The combination of NOA's ingestLINE™ application NOARecord™, the N7000c audio ingest frontend, and the included PicoService enables the use of proven industry standards at highest possible quality for audio digitization projects of all size.

AT A GLANCE

- 1 to 4 stereo channels audio ingest system
- Complete transfer control via Tape Light Barrier, algorithmic and statistical analysis
- Standalone ingest system
- Support of various export formats incl. BWF
- BitProof™ - end-to-end data protection from the audio interface to the recorded file
- 122 dB outstanding dynamic
- Includes phono preamp and digital de-emphasis for historical gramophone recordings
- Remote control of most typical replayers
- Runs with pre-definable capturing workflows
- Dante™ interface for audio over ethernet

BENEFITS

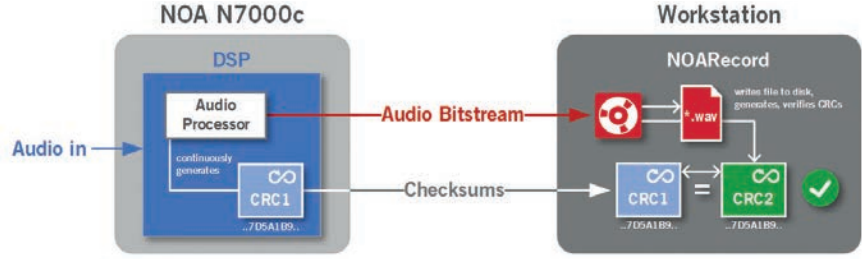
- Prevents you from erroneous transfers
- Eases your on demand archival ingests
- Combines multiple devices in one unit: A/D converter, AES interface with CRC, phono preamp, remote control, monitoring, optical tape recognition

CONSISTS OF

- NOARecord Software
- N7000c Audio Ingest Frontend
- PicoService
- Tape Light Barrier (optional)

UNIQUE FEATURE: NOA BitProof™

NOA BitProof™ constantly secures audio blocks recorded with NOARecord against interstitial errors. For all signals traversing the N7000c audio ingest frontend, a cyclic checksum is created and forwarded to the NOARecord software. The recording is then validated by NOARecord by creating a second cyclic checksum on the written file and comparing it with the one received from the N7000c. BitProof works continuously in realtime during the active recording - with no additional operational overhead or intervention by an operator. Should an error occur, it will be detected and reported reliably, enabling the operator to react immediately. A domain of trust is established, starting from the A/D converter covering the complete transfer chain towards the recorded archive facsimile.



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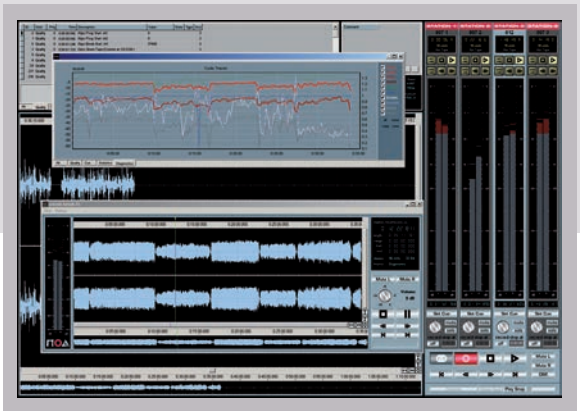
NOARecord

NOARecord™ is NOA's recording software for analog and digital audio, which supports control of all functionalities in a clear-structured and user-friendly way. It allows to manage jobs, operate up to four digitizations in parallel, and validate the results in realtime.

Integrated with the N7000c audio ingest frontend, the user enjoys a single point of operation from where he can remote control attached replayers and monitor the incoming audio, while he is assisted with unique and efficient quality analysis functions and status reports.

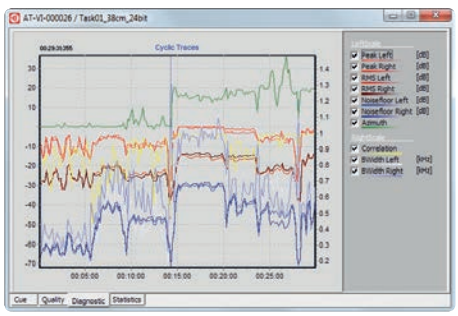


NOARecord's clearly structured user interface displays relevant recording and playback parameters of all stations on a single screen.

FEATURES AT A GLANCE

- 1 to 4 stereo transfers in parallel (e.g. 1/4", DAT, cassettes, 78s, vinyl etc.)
- Monitoring matrix (level control, mute, mix, solo)
- Concurrent transfer control (status, level, signal)
- List-based task processing
- Flexible integration of legacy replayers
- Remote control of replayers (via RS232, 9pin)
- Realtime manipulation of de-emphasis filters
- Realtime analysis of transfer status (e.g. DAT BLER, azimuth, analog/digital over, end of tape etc.)

Any setup of up to four replayers is supported.



Realtime algorithmic and statistical analysis during recording (Azimuth, Noisefloor, Correlation, Bandwidth, Correlation, BLER etc.) enables immediate assessment of transfer quality.

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N7000c

NOA's N7000c perfectly meets the high quality criteria of archival audio transfers and brings a set of unique features which allow for especially economic operation. Whenever excellent intermodulation distortion performance, outstanding dynamic range as well as sonic behaviour are required, NOA's N7000c is the solution of your choice. It features different interface options for replayers via RS232 or 9pin protocol. With an extended input sensitivity range and the support of digital de-emphasis filters it renders the purchase of phono pre-amplifiers obsolete.

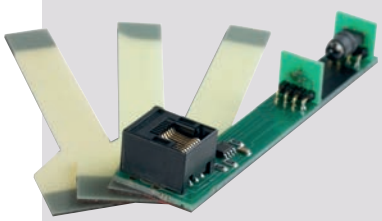
FEATURES AT A GLANCE

- BitProof™ data protection
- 122 dB dynamic range (A-weighted), typ.
- Digital realtime de-emphasis with customizable filter curves
- 24 bit anti-parallel double A/D conversion
- Switchable input sensitivity: 18|12|6|0|-6|-12|-18|-24 dBu (nominal input level relative to 0dBFS)
- Monitoring matrix / mixing (5 in 1)
- Lowest jitter VCXO-based re-clocking

CONNECTIVITY

- 8x balanced analog inputs
- 2x balanced analog outputs
- 4x AES/EBU inputs with Sample Rate Converter (SRC)
- Dante™ interface for audio over ethernet
- Built-in MM phono preamplification
- Word clock in / out
- 4x tape light barrier connectors (see below)
- 4x RS232/RS422 remote connectors

TAPE LIGHT BARRIER



**This optionally available optical tape analysis module is a unique tool for tape recordings, using advanced transparency analysis to recognize different colors and scratches, as well as magnetic layer loss.
It connects directly to the N7000c and allows for highly specific tape status detection even at 76 cm/s. The information can be used for purposes such as track splitting of masters as well as for consistent archive description.**

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DIGITAL DE-EMPHASIS, DIRECTLY AT THE DSP

With digital de-emphasis, selection of the correct de-emphasis curve for transfer of historical disc recordings is no longer an issue. Within the NOARecord software, freely configurable filter curves of first order (e.g. RIAA, Blumlein, Columbia etc.) can be set to be applied to a recording by the N7000c audio ingest frontend (directly at the DSP) in realtime. The subsequent automatic annotation of filter characteristics reduces complexity in file handling and eases the archivists workflow. Storing of filter coefficients (e.g. in the header of a BWF file) enables exact reversibility for eventual corrections in the future.

The digital de-emphasis feature can also be used to reverse filter curves of analog preamplifiers with limited de-emphasis capabilities by importing measured values of the appropriate device.

PicoService

PicoService is what turns your PC into a single stand-alone digitization and workflow system. Workflows within PicoService allow to produce a list of current digitization jobs, process digitization tasks as required, and manage automated post processing and delivery. You can choose from pre-configured templates or edit them to your requirements.

For efficient operation of the NOARecord Pico system NOA recommends following minimal specifications for the workstation:

- Windows 7 OS
- CPU equivalent to Intel Core i-3220 or better
- 4GB RAM
- Separate hard drives for system and data, or large SSD
- Gigabit Ethernet, separate interface for Dante™ recommended
- Target storage unit, size depending on project

FEATURES AT A GLANCE

- Runs and controls pre-definable capturing workflows
- Easy to use, easy to install, easy to maintain / low hardware requirements
- Administration over simple management console
- Status updates over REST API available
- Customizable metadata exports of all process relevant steps
- Interface for custom transcoding via command-line with rich parametrization

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