CREATING
ARCHIVE
INNOVATIONS

*ingest*LINE™

PROCESSORS FOR THE TRANSCRIPTION
OF ARCHIVE CARRIERS

WWW.NOA-ARCHIVE.COM

*ingest*LINE™

> **"I WANT TO BE SURE THAT I HAVE NOT INTRODUCED NEW ERRORS AT THE TRANSFER OF 100.000 HOURS OF ARCHIVE MATERIAL. A WRONG AZIMUTH TRANSFER OR A WRONGLY SERVICED VTR IS SOMETHING WHICH WOULD BE AN INACCEPTABLE LOSS."**

WHAT IS ingestLINE™?

The ingestLINE™ media transcription system from NOA allows users to digitize extensive media archive collections without introducing NEW errors from faulty transfer parameters.
ingestLINE™ software components notify users of critical transfer problems during transcription. This quality-related transfer information – collected at the moment of ingest – is then stored within ingest reports of PicoService or the more sophisticated distributed jobDB™ or mediARC™ systems for further workflow management.

INGESTLINE COMPONENTS FOR DIFFERENT MEDIA TYPES

	NOARecord	MediaLector	CDLector	FrameLector
Typical Carrier Types	Analog Tape, Vinyl, Cassette, 78s, Records	DAT, MiniDisc, Cassette	CDs	Betacam/SP, DigiBeta, 1", 2", IMX etc.
Parallel Transfers	4	8	8	2
Workflow	PicoService jobDB™ mediARC™	jobDB™ mediARC™	jobDB™ mediARC™	PicoService jobDB™ mediARC™
NOA Hardware	N6000A* N7000c	N7000c (optional)	NOA certified CD Drive	VTRi
Transfer Control	Audio Algorithmic, Tape Light Barrier BitProof™	Audio Algorithmic, BLER	Audio Algorithmic, C2 Errors	RF Logging Low Level Machine Status Reports

* supported but discontinued

Transfer control data gives an immediate hint on problematic signal zones, such as loss of bandwidth due to smeared heads, phase flip due to mis-phased replayers and/or tapes, as well as direct indication of transfer anomalies from low level reporting such as RF tracing of videotape, BLER analysis for DAT, or C2 logging for CD.

NOA GmbH, Johannagasse 42, A - 1050 Vienna, Tel. +43.1.545 27 00

*ingest*LINE™

NOARecord

Multi-Stream Ingest and Transcription Software for Analog Audio Legacy Sources with full QC Control. Including BitProof™ Support – the end to silent interstitial errors.

FEATURES

- Automatic monitoring of all active stations for continuous quality assessment
- Load multiple settings to accommodate various replayer situations typical of most archives
- Inbuilt monitoring matrix with level control, mute, mix, and solo
- Remote-controlled replayer allowing you to operate the machine directly from your desktop
- Supports N6000A and N7000c Audio Frontend
- BitProof™ Support – the end to interstitial errors (in combination with N7000c)
- DANTE™ and AES Support with N7000c
- Sample rates up to 192kHz
- 64bit internal precision
- Integrated A/D converters can change their EQ and gain based upon workflow controls
- Algorithmic audio analysis available for all sources with different setups
- Azimuth warning indication
- Parallel viewing of peak meter from all stations
- EDL-based segmentation of carriers (see actLINE™ and jobDB™ /mediARC™ workflow systems)
- Single-station (Pico) and multiple-station (Pico, job-DB™ and mediARC™) setup available
- Cut and splice detection from tapes (N6035A)
- Support for automatic gluing of spliced tapes via AutoCut
- Classification per comment
- Available as stand-alone system: NOARecord™ Pico

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

Different setups are supported with the same license, allow scaling from 1 to 4 parallel ingests with a wide variety of replayer support.

NOA GmbH, Johannagasse 42, A - 1050 Vienna, Tel. +43.1.545 27 00

*ingest*LINE™

NOA

NOARecord

Transfer Analysis with NOARecord

Characteristic events give an immediate hint on problematic transfer zones, such as loss of bandwidth due to smeared heads, phase flip due to mis-phased replayers and/or tapes, as well as direct indication of anomalities of noisefloor raise. An especially viable azimuth analysis helps transfer technicians to align the azimuth correctly during the transfer on the replayer itself.
Besides quality events, traces illustrate a complete analysis of events along the audio file. Traces, as well as all quality-related events, are directly linked to the audio file and behave in the NOA players as zoom-able and linked information to give – also in an asynchronous parallel transfer – an immediate overview of the quality of the audio file no matter which carrier has been ingested.
This quality-related information – collected at the moment of ingest – is then stored in the Pico™, jobDB™ or mediARC™ workflow system, allowing for both a centralized quality assessment and export from the workflow system to mediARC™ or to a foreign MAM system.

EVENT-RELATED PARAMETERS

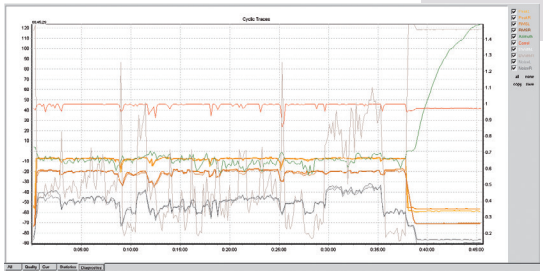
- Clicks L/R
- Digital overload on A/D Converter L/R
- Azimuth Overs (Threshold)
- Mute L/R
- Tape Condition (via N6035A)

TRACES

- Bandwidth L/R (x10 kHz)
- Correlation (-1/+1)
- Azimuth (degree shift @10 kHz)
- Level (RMS) L/R (dBfs)
- Level (Peak) L/R (dBfs)
- Noise L/R (dBfs)

OVERALL STATISTICS

- Number of Mutes L/R
- Number of Clicks L/R
- Mean Noise L/R
- Mean RMS L/R
- Mean Bandwidth L/R
- Max Peak L/R at Position
- Mean Correlation



Traces show an integrated value for bandwidth, noise, correlation, levels, and azimuth.

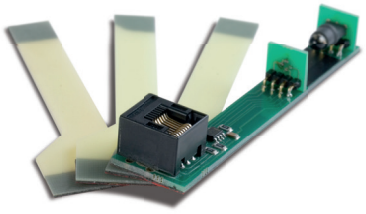
N6035A TAPE LIGHT BARRIER

Recognition of

- → Red tape (38 cm/s, mono)
- → Red white tape (38 cm/s, stereo)
- → Blue tape (19 cm/s, mono)
- → Blue white tape (19 cm/s, stereo)
- → Splices
- → Magnetic layer loss

Unique analysis tool for taperecordings that uses advanced transparency analysis to recognize different colors and scratches, as well as magnetic-layer loss.

It connects to N7000c and the N6232A card. The gathered time-code information from yellow tape allows for semi automated tracksplitting (e.g. of masters).



NOA GmbH, Johannagasse 42, A - 1050 Vienna, Tel. +43.1.545 27 00

*ingest*LINE™

NOARecord

N7000c Audio Ingest Frontend

N7000c perfectly meets the high quality criteria of archival audio transfers and adds a set of unique features which makes it extremely cost-effective.

Whenever excellent intermodulation distortion performance, outstanding dynamic range as well as excellent sonic behaviour are required, NOA's N7000c is the solution of your choice.
With an extended input sensitivity range and the support of digital de-emphasis filters it makes the purchase of phono pre-amplifiers obsolete, when used with audio discs.
Different interface options for replayers are available via RS232 or 9pin protocol.
N7000c - whereas c stands for "compact" - is both suitable for high fidelity archival transfers as well as to serve you as excellent high fidelity ADDA interface to your host.

N7000c AT A GLANCE:

- 8ch balanced analog inputs
- 2x balanced analog outputs
- 4x AES/EBU inputs with Sample Rate Converter (SRC)
- 2-ch. Digital AUX monitoring input (TOSLINK with SRC)
- Word Clock in / out
- Dynamic Range 122dB (A-weighted), typ.
- DANTE™ interface (8 in / 8 out)
- Monitoring matrix / mixing (5 in 1)
- Lowest jitter VCXO-based re-clocking
- BitProof™ Support: end-to-end data protection from the audio interface to the recorded file
- 24 bit anti-parallel double A/D conversion
- Sample Rates: 44.1 / 48 / 88.2 / 96 / 176.4 / 192 kHz
- Switchable input sensitivity: 18|12|6|0|-6|-12|-18|-24 dB (nominal input level relative to 0dBfs)
- Direct MM Phono connectivity
- Real-time de-emphasis (RIAA, Columbia LP, Decca78, EMI LP, FFRR LP, custom filter)
- Differential de-emphasis (e.g. convert RIAA to Blumlein)
- 4x N6035A optical tape sensor connectors
- 4x RS232 remote
- 4x RS422 remote
- USB peripheral connector
- IASA TC04 compliance
- Cascadeable for parallel ingest

NOA GmbH, Johannagasse 42, A - 1050 Vienna, Tel. +43.1.545 27 00

*ingest*LINE™

NOARecord

The AD Conversion - The New Era in Archives

Nowadays archival transfers with a typical dynamic range of 65dB can be easily put into a dynamic range of 122dB without the need of readjusting gains, leaving enough foot- and headroom also for later restorations.

NOA's N7000c gives you the ease to leave dynamic adjustments to simple server side normalisation which can be done without raising the noise floor in the analog domain, thus saving valuable time in transfer workflows.

N7000c COMES WITH:

BitProof™ SUPPORT CONTROL
Interstitial errors and inconsistent samples are now past - a DSP in the AD converter creates a checksum which is passed over to the ingest system and counterchecked against the written wavefile in the recording application NOARecord™.

8CH SYMMETRICAL ANALOG INPUTS
- Electronically balanced XLR
- Allow to connect up to four stero replayers of different kind with completely different needs of amplification and equalisation
- Input Sensitivity is switchable in a range of 18|12|6|0|-6|-12|-18|-24 for 0dBfs sensitivity

122dB DYNAMIC RANGE
Two AD chips are constantly compared via a DSP in an antiparallel design and give highly linear signals with respectable low noise level.

DANTE™ INTERFACE & AES
Simply connect your laptop to the network and access 8 uncompressed 192kHz linear streams without requiring additional PCI soundcards. NOA BitProof™ gives additional security on sample and bit accuracy.

IASA TC04 COMPLIANCE
Personalized data sheet to prove IASA TC04 compliance on request.

CASCADEABLE FOR UP TO 16 CHANNELS
Two N7000c hardwares can be cascaded sharing the same clockmaster for 16 channels recording.

NOA GmbH, Johannagasse 42, A - 1050 Vienna, Tel. +43.1.545 27 00

*ingest*LINE™

NOARecord

N7000c FEATURES

DIGITAL INTERFACE

Highest flexibility in connecting various different analog and digital sources due to 4 AESin connections with onboard Sampling Rate Converters.

- AES in-connections 4x SRC
- WordClock In / Out
- Sampling Rate Support: 32/44.1/48/88.2/96/176.4/192 kHz
- De-emphasis Support for 32/44.1/48

CONFIDENCE MONITORING AND D/A CONVERSION

The D/A section of the N7000c allows routing selected signals to their analog symmetrical output. An auxiliary TOS-LINK input allows additional sources to be merged in order to get only one signal to the connected speakers.

- 15dBu symmetrical OUT analog
- 114 dB Dynamic Range
- S/PDIF (TOSLINK) Optical In

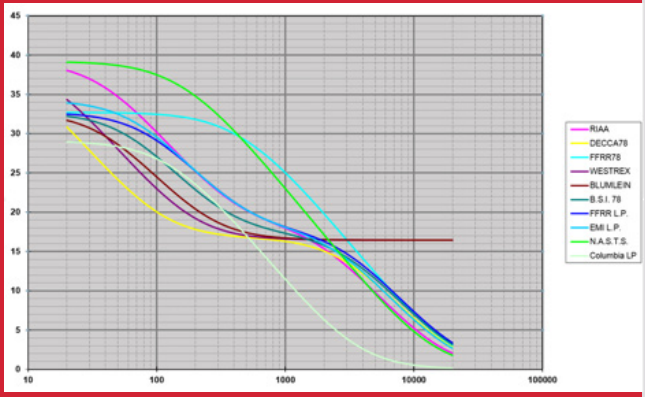
LOWEST JITTER VCXO-BASED-RECLOCKING

Addresses clock degradation aspects of modern layer-3 audio-networking in the most elaborate way to maintain perfect jitter-free audio clocking.
Sample Rates: 44.1/48/88.2/96/176.4/192 kHz
Bit Rate: 24 bit

PHONO SUPPORT:

Connect your different phono re-players to the N7000c, applying inverse RIAA curve and re-applying a historical equalization curve to your recording with built in 48bit algorithms.

- Selectable Phono Preamp Curves (RIAA, Westrex, Decca, Blumlein, Columbia, HMV...)
- Decurve the standard RIAA (i.e. EMT) output to apply selected historical phono presets
- Create filter coefficients from your own research (Rolloff, Turnover)



ARCHIVE REPLAYER SUPPORT

- 4x RS232 (Studer configuration: Studer A807MKI, A807MKII, A810, A812, A816, A820)
- 4x interface to Tape Light Barrier (N6035A)
- 4x Sony 9-Pin: attach your analog vintage replayers via 3rd party 9pin adapter or connect any replayer with 9-Pin support

NOA GmbH, Johannagasse 42, A - 1050 Vienna, Tel. +43.1.545 27 00

*ingest*LINE™

NOA

NOARecord

N7000c TECHNICAL SPECS

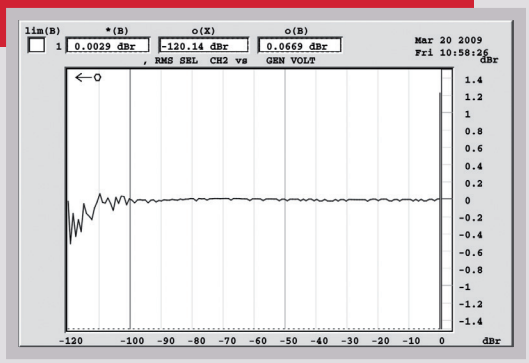
- → **Input Sensitivity:**
  @0dBFs: 18l12l6l0l-6l-12l-18l-24 dB
- → **Input Impedance:**
  Symmetrical: 56 kOhm
  Asymmetrical Phono (auto-detect): 47 kOhm
- → **Frequency Response:**
  @fs48kHz, Bandwidth 20Hz-20kHz: 0.05dB
  @fs96kHz, Bandwidth 20Hz-40kHz: 0.05dB
  @fs192kHz, Bandwidth 20Hz-40kHz: 0.05dB
- → **Amplitude gain linearity:**
  @997 Hz, range -120 dBfs to 0dBfs: 0,4 dB
- → **Intermodulation Distortion:**
  @12kHz and 14kHz, -1dBfs: -110dB
- → **Dynamic Performance:**
  THD+N (-1dBfs)
  @fs=96kHzl997HzlAnalogGain=0dB: **-110dB (min.) l -111dB (typ.)l -112dB(max)**
  @fs=44.1kHzl997HzlAnalogGain=0dB: **-109dB (min.) l -110dB (typ.) l -111dB(max)**
  THD+N (-20dBfs)
  @fs=96kHzl -20 dBfsl997HzlAnalogGain=0dB: **-99dB (min.) l -99.5dB (typ.) l -99,8 dB(max)**
  @fs=44.1kHzl -20 dBfsl997HzlAnalogGain=0dB: **-98dB (min.) l -98.5dB (typ.) l -99dB(max)**
- → **Dynamic Range:**
  @fs=96kHz Bandwidth 20Hz-20kHz, -60dBfs
  A-weighted: **121.5dB (min.) l 122dB (typ.) l 122.5dB(max)**
  @fs=44.1kHz Bandwidth 20Hz-20kHz, -60dBfs
  A-weighted: **122dB (min.) l 122.5dB (typ.) l 122.8dB(max)**
  @fs=96kHz Bandwidth 20Hz-20kHz, -60dBfs
  unweighted: **119dB (min.) l 119.5dB (typ.) l 119.8dB(max)**
  @fs=44.1kHz Bandwidth 20Hz-20kHz, -60dBfs
  unweighted: **118.5dB (min.) l 118.8dB (typ.) l 119dB(max)**

- → **Spurious Aharmonic Signals:**
  @997Hz, -1dBfs: **-130dB**
- → **Interface Jitter:**
  @fs=96kHz, 997Hz, -1dBfs: **1,8ns**
- → **Synchronisation/SampleRate:**
  internal oscillator 44.1/48/88.2/96/176.4/192 kHz
- → **Resolution:** 24 bit
- → **Power Connection:** 110/220V (switching)
- → **Dimensions:** 1U, 19", 483x44x201 (BxHxW)
- → **Power Consumption:** 10W

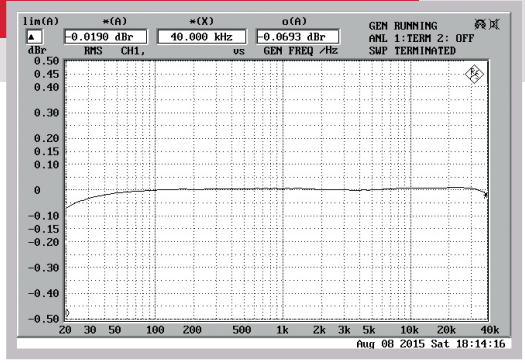
MINIMUM REQUIREMENTS PC

- 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

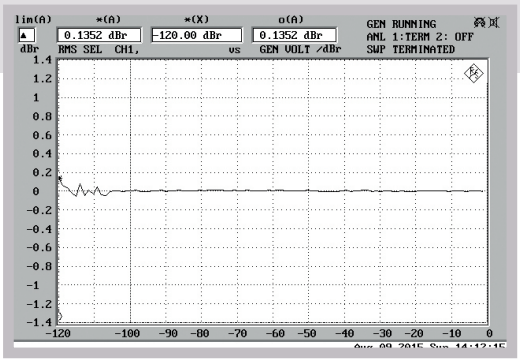
Target storage unit; size depending on project:
Stereo 24 bit @ 48 kHz will amount to app. 990 MB (or 0,96 GB) per hour



THD+N @ 96kHz (-1dBfs)



Frequency Response @ 96kHz



Amplitude Linearity @96kHz

NOA GmbH, Johannagasse 42, A - 1050 Vienna, Tel. +43.1.545 27 00

*ingest*LINE™

MediaLector

Scalable, Quality-Controlled Mass Migration for Digital Tape

MediaLector™ is NOA's ingest tool for quality-controlled mass migration of DATs and MiniDiscs from one to eight parallel stations. Running on the N6073 host, it is capable of transferring up to eight stereo sources in parallel at 44.1-48 kHz resolution, extracting the audio information, and annotating relevant subcode while scanning the signal using NOA's algorithmic detection.
MediaLector™ also constantly monitors the status of error-correction stages in the DAT drives and annotates the quality-relevant data synchronously to the audio stream with Sony DAT machines. The result is a 100% documented audio transfer with a digitization proof-stamp written to the database along with the audio material.

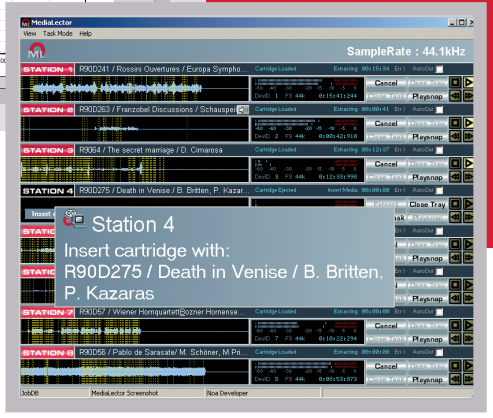
BENEFITS

- Tracks interpolations and DAT mutes
- Collects block error rates (BLER) in an easy-to-read trace
- Tracks playback condition
- Outputs start IDs
- Detects and optionally corrects eventual pre-emphasized audio

Even one single DAT error can be found within 1 hour recording with one single glance: Graph Overview with BLER indication.

UNIQUE FEATURES

- Batch transcription maximizes throughput by outputting only the erroneous transcripts for QC (optional)
- MediaLector1 through MediaLector8 software versions available
- Load task for jobDB™ or mediARC™
- Create and edit cue and quality points during recording
- Set all-time undo trim points for start and stop of the audio
- Manual load mode; Auto mode (upon pre-sorted lists); Barcode mode
- Automatic carrier manipulation (hands-off operation)
- Audio stream resolution: 16-bit (32-bit)/44.1 kHz or 48 kHz
- Pre-emphasis auto correction
- Requires jobDB™ or mediARC™ workflow backbone



NOA GmbH, Johannagasse 42, A - 1050 Vienna, Tel. +43.1.545 27 00

*ingest*LINE™

MediaLector

EVENT-RELATED PARAMETERS

- Clicks L/R
- Digital overload
- Mute L/R
- Digital mutes (7040 & R500)
- Digital interpolations (7040 & R500)
- Physical read problems (7040 & R500)
- Sample rate changes (7040 & R500)
- Subcode index (7040 & R500)
- Start, stop, end ID

TRACES

- Bandwidth L/R (x10 kHz)
- Correlation (-1/+1)
- Azimuth (degree shift @10 kHz)
- RMS L/R (dBfs)
- Peak L/R (dBfs)
- Noise L/R (dBfs)
- BLER L/R traces

OVERALL STATISTICS

- Number of Mutes L/R
- Number of Clicks L/R
- Mean Noise L/R
- Mean RMS L/R
- Mean Bandwidth L/R
- Max Peak L/R at Position
- Mean Correlation

SUPPORTED CARTRIDGE PLAYERS

- → **Tascam 801 MD Deck***
- → **Tascam Cassette MC 322***
- → **Tascam 322 double cassette deck***
- → **Sony DAT PCM 7040**
- → **Sony DAT R500 with NOA R500 hardware**

*requires A/D converter

MediaLector COMPONENTS

N6073 WORKSTATION

- Connection for up to eight RS232 devices
- Up to eight digital AES/EBU I/O with asynchronous SRC
- One analog Output

Technical specs

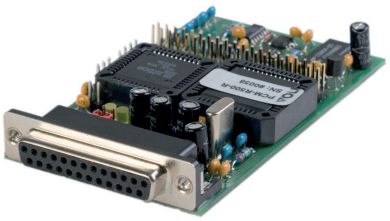
- → QuadCore processor
- → 8 GB ECC RAM
- → 10/100/1000 Mbit Connection
- → 256 GB SSD internal Drive, >1TB SATA data drive
- → Dual graphic adapter
- → 19-inch, 4-RU rackmount computer case
- → Win7 Pro English installed
- → Optimized for data transfer and stability

NOA R500 ADAPTATION KIT

Adaptation kit with test software and wiring info.

Benefits

- → BLER traces
- → Digital mutes
- → Digital interpolations
- → Physical read problems
- → Sample rate changes
- → Subcode index



NOA's adaptation kit for Sony R500 DAT machines makes it possible for the replay device to document BLER, mute, digital errors, and read problems on the hardware level. The Sony R500 DAT, one of the newer DAT machines, supports 32 kHz and reasonable tolerant ATF tracking. A specific CPU mounted on the adaptation board collects the low-level drive information by tapping into specific wiring and translates it into readable RS232 data, which collected and displayed from the MediaLector™ software over a standard 8x.

NOA GmbH, Johannagasse 42, A - 1050 Vienna, Tel. +43.1.545 27 00

*ingest*LINE™

CDLector

Mass CD-Ripping
Which Makes a Jukebox Obsolete

NOA's CDLector™ station is a mass CD-ripping system that is capable of handling up to eight parallel drives. Designed to extract audio from CDs into digital audio objects with perfect control over interpolation, it delivers optimal results even for heavily damaged items. CDLector™ prompts you to insert the right carrier into the drive with automatic opening/closing of the corresponding drive in automatic mode. Alternatively, the system can use the carrier barcode to fetch the corresponding metadata item to be digitized. As it is harder and harder to get reliable CD ripping drives with proven C2 behaviour, NOA delivers specifically selected CD drives which are proven to get best results in interpolation quality.

CDLector™ includes algorithmic analysis as well as advanced metadata retrieval, and supports four read modes:

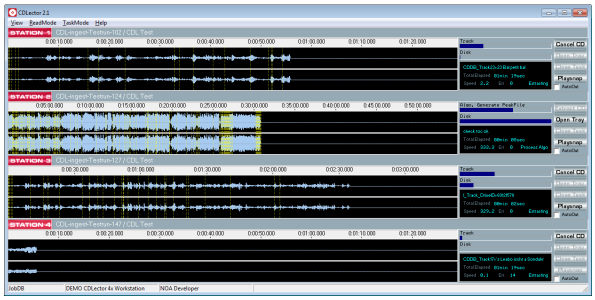
ARCHIVE MODE
Reads all sectors up to 64 times and will only move on to read the next sector if it has an exact match between two read results (recommended for archives).

BURST C2 MODE
Reads in Archive Mode until a C2 error is detected. From there on it switches its reading mode progressively to C2 mode and upon further failure into Burst mode, annotating the read mode changes. The last mode is kept until the end of the current carrier, switching back to Archive Mode on the start of the next.

ALTERNATE MODE
Alternate Mode starts in Archive Mode and switches into burst Mode upon uncorrectable read errors, annotating the read mode change until the end of the current track. On the start of the next track, it switches back to Archive Mode automatically.

BURST MODE
Can be used for CDs when no other method of grabbing will lead to a result. Burst Mode is a single-pass mode with the highest speed (typically 28x) and no transfer security, except for algorithmic traces.

In Archive Mode, NOA CDLector is able to extract up to 50.000 CDs in less than a year. With CDLector, you can load CDs in any order without worrying about mistakes in the loading process or cross-checking content with the metadata. And since CDLector can handle 8 CDs in parallel at 2 minutes each, human interaction is required only every 15 seconds, which is a major advantage over jukebox solutions.



CDLector™ digitizing CDs on 4 stations - upgradeable to 8 stations.

NOA GmbH, Johannagasse 42, A - 1050 Vienna, Tel. +43.1.545 27 00

*ingest*LINE™

CDLector

FEATURES

- Up to 1.000 CDs per day (two shifts, 55 mins/CD, eight CD-ROMs, archive mode readout)
- Extraction of ISRC and CD text
- Consulting of (selectable) Internet database for track information
- Reads most copy-protected CDs
- Play while grab
- Supports up to eight external CD drives
- C2 indirect analysis
- Access all algorithmic quality information in real time and over traces

- Load task from mediARC™ or jobDB™
- Manual load mode
- Auto mode via barcode (upon pre-sorted lists)
- Partial or concatenated extraction via XML/EDL import in jobDB™ or mediARC™
- Automatic carrier manipulation (hands-off operation)
- Single or continuous file encoding
- Preselected drives for optimized grabbing results
- Requires jobDB™ or mediARC™ workflow backbone

EVENT-RELATED PARAMETERS

- Clicks L/R
- Digital overload
- Mute L/R
- CD-Read errors (E32 indication)

TRACES

- Bandwidth L/R (x10 kHz)
- Correlation (-1/+1)
- RMS L/R (dBfs)
- Peak L/R (dBfs)

OVERALL STATISTICS

- Number of Mutes L/R
- Number of Clicks L/R
- Mean Noise L/R
- Mean RMS L/R

CDLector HARDWARE COMPONENTS

N6072 WORKSTATION

→ Connection for up to eight USB drives
→ One professional digital AES/EBU, analog I/O, and optical I/O interface
→ Delivery with four to eight preselected CD-ROM drives

Technical specs

→ Minimum DualCore processor
→ Minimum 6 GB RAM
→ 10/100/1000 Mbit Connection (CIFS)
→ Minimum 160-GB SATA internal Drive,160-GB SATA data drive
→ Dual-head graphic adapter
→ 19-inch, 4-RU rackmount computer case
→ Win7 Pro English installed
→ Optimized for data transfer and stability

NOA CD DRIVES

→ Reliable error reporting behavior
→ Tested with industrially normed test CDs
→ Proven ISRC, TOC, and emphasis read out
→ Meets strong RedBook specifications
→ Single drives in USB enclosures
→ Optionally available as 4-RU

NOA GmbH, Johannagasse 42, A - 1050 Vienna, Tel. +43.1.545 27 00

*ingest*LINE™

FrameLector

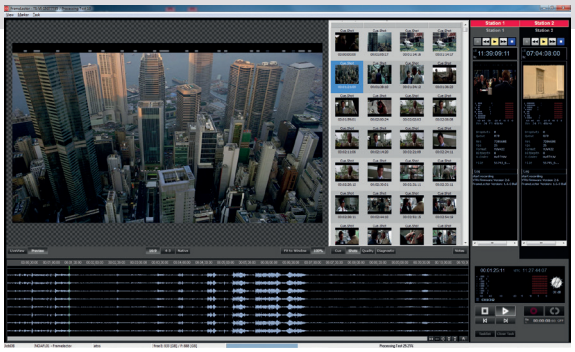
The SD-Video Ingest Module for Archives

FrameLector™ is a workflow integrated (jobDB™, mediARC™) or standalone (Pico) ingest client that provides a simple and intuitive user interface for efficient and quality controlled mass transcription of video tapes.
As an easy-to-use ingest tool that combines built-in shot detection and a mathematically lossless open-source recording/mezzanine format in either 8bit or 10bit, FrameLector™ allows users to capture SD material – along with its required metadata such as VITC and LTC timecode – without compromising quality. Other features include remote control and an infinitely scalable multi-stream parallel solution with complete previewing.
FrameLector™ is the result of NOA's experience with large video migration projects successfully accomplished in the past and provides transcription quality information based upon multiple parameters including RF logging via a dedicated hardware.

The hardware supports two parallel ingest sources and connects peripherals through SDI. A separate customized NOA hardware (VTRi) provides RS422, RS232, and RF readout via a simple USB connection.

TECHNICAL SPECS

- → 2 separate PAL/NTSC inputs via SD-SDI 625i25, SMPTE 259M, 10 bit, BNC
- → Output: (workflow engine output)
  AVI container
  PAL/NTSC resolution:
  720 x 576 / 720 x 480
  720 x 608 / 720 x 502 (VITC)
- → Mezzanine video codec:
  HuffYUV / FFvHuff for 8bit/10bit YUV422
- → Final Archive Format (e.g. IMX D-10, FFV1, DVCPro50) rendered via PicoService or MediaButler.
- → Supported Formats: see MediaButler and PicoService
- → Audio codec: PCM 24 bit/48 kHz
- → Time code support: LTC, native VITC
- → Play while record
- → Shot Detection
- → Top tail trimming after recording
- → Connects to workflow system jobDB™ & mediARC™



FrameLector™ displaying relevant SDI source information and descriptive metadata about timecode and quality of recorded content on one single screen.

RF Traces plotted during ingest, indicating problematic transfer (e.g. due to damaged tape or smeared reading head of VTR).

NOA GmbH, Johannagasse 42, A - 1050 Vienna, Tel. +43.1.545 27 00

*ingest*LINE™

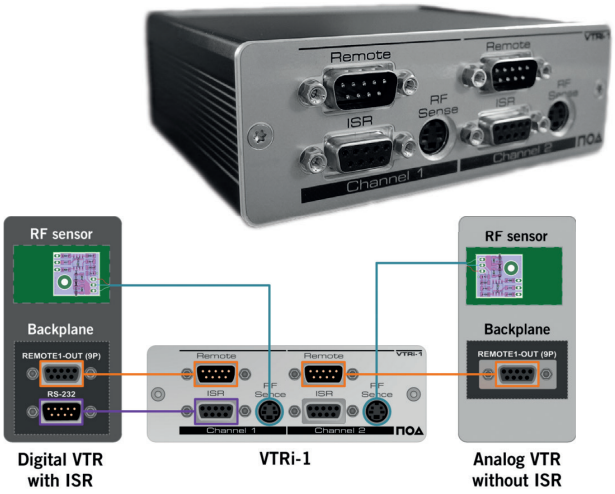
FrameLector

FrameLector

FEATURES

- Analog and digital sources - SD material archiving in 4:2:2, (720 x 576, 720 x 608), 8/10 bit
- Lossless digitization in open-source archive formats (HuffYUV, FFvHuff)
- Target production formats chosen via MediaButler (see MediaButler product sheet)
- Built-in shot detection
- ISR and RF Logging towards Diagnostics trace
- USB Extension box for RF-signals/RS422/RS232*
- Multichannel audio up to eight channels in 48 kHz/24 bit
- Fully workflow-integrated video archiving client
- Connects to jobDB™ and mediARC™ ProcessorHost
- Support as standalone ingestsystem with PicoService
- Dual-channel ingest system on one workstation
- Multipreview of incoming streams and large preview in RGB mode
- Optional annotation during recording
- Play while record
- MultiChannel (2/4/8ch) Audio Monitoring to standard stereo output
- Automatic TimeCode marker function via TC Cue List import
- Option for setting different TC References (VITC/LTC)
- Fully automated metadata collection of processing parameter
- Archive conform VITC readout over VBI area picture analysis
- Ingest parameter setup via DTD
- Local HDD recording and transfer via FileMover to GeneralPublicPath (GPP) of jobDB™ or mediARC™ for retranscoding

VTRi HARDWARE



Connecting VTRs to the VTRi hardware for remote control and ISR/RF readout in FrameLector.

FEATURES

- Remote controlling of VTRs using Sony 9-pin protocol
- Read-out of Sony Interactive Status Report protocol while ingest (information of audio/video condition and errors)
- Read-out of RF-levels from the VTR tape while ingest via the separately delivered VTRiS modules
- VTRi control via FrameLector™ over one connection (compatible with USB1.1 and USB2.0)

N6080 FrameLector WORKSTATION

Technical specs

- → Rackmounted 4U low noise Host QuadCore Processor
- → Dual Graphic Card
- → 10/100/1000 Mbit Connection
- → 2x 500 GB 10k drives (recording)
- → 1x 128 GB SSD drive (system)
- → English Win7 version installed
- → 2-channel OEM SDI Videocard included

*RF Logging is currently not available for Color-Under VTRs, ISR is available on machines featuring the ISR™ logo.

NOA GmbH, Johannagasse 42, A - 1050 Vienna, Tel. +43.1.545 27 00

ingestLINE™

NOA's Product Family

NOA's ingestLINE products are combined either with PicoService -to form single standalone ingest workstations- or with jobDB or mediARC and appropriate actLINE modules for more complex projects with elaborate requirements.

	PICO	jobDB	mediARC
Single station / Standalone setup	+		
Multiseated and task-distributed project environment		+	+
NOARecord	+	+	+
FrameLector	+	+	+
CDLector		+	+
MediaLector		+	+
actLINE Module Support		+	+
Transfer control during ingest	+	+	+
Predefined standard workflows	+	+	+
On demand ingest	+	+	+
Quality assured process incl. processlog	+	+	+
API available	+	+	+
Multi User enabled	+	+	+
Individually designable workflows		+	+
Retraceable and resettable workflows		+	+
Centralized quality control and logging		+	+
Multiple output formats		+	+
Multiuser access management			+
Freely Defineable Metadata Model			+
Multiple order formats			+
Remote access for users			+
Media Archive Asset Management			+

For more information on how to combine NOA's products or on how to upgrade your project from Pico to jobDB or mediARC, please feel free to contact a NOA sales representative or visit www.noa-archive.com.

NOA GmbH, Johannagasse 42, A - 1050 Vienna, Tel. +43.1.545 27 00

CREATING
ARCHIVE
INNOVATIONS

jobDB™ ⟷ ingestLINE™ ⟷ mediARC™

jobDB™ WORKFLOWS.

mediARC™ METADATA – MEDIA – WORKFLOWS.

ingestLINE AT A GLANCE

- → Connects to PicoService, jobDB™ and mediARC™
- → OPEX cost reduction helps achieve ROI in just a few months
- → Enables a transfer quality controlled archive migration, which is the only sensible way to migrate an archive

ABOUT NOA

NOA is the leading global provider of flexible turn-key solutions for quality-controlled digitizing, archiving, description, and retrieval of AV and other media content. Scalable to suit collections of all sizes, NOA's product families - ingestLINE™, actLINE™, jobDB™, and mediARC™ as well as NOA's Pico entry systems - not only help ensure long-term preservation of media, but also support enterprise-wide collaboration, efficiency, and productivity by enabling fast and accurate identification and retrieval of clips from the full range of an enterprise's archive. NOA's easy-to-use proprietary technologies are today installed in some 30 high-profile enterprises worldwide, including Austrian National Broadcaster ORF, Sveriges Radio Förvaltnings (SRF), Yleisradio Finland (YLE), Radiotelevizija Slovenija (RTV), Fonoteca Nacional de Mexico, the Vlaamse Radio- en Televisieomroep (VRT), and many more. With headquarters in Vienna, Austria, NOA is committed to the ongoing development of innovative technologies to ensure the maintenance of invaluable cultural heritage for future generations.

For detailed information please visit the NOA website at www.noa-archive.com

CREATING
ARCHIVE
INNOVATIONS

jobDB™ ingestLINE™ actLINE™ mediARC™

NOA GmbH
Johannagasse 42
A-1050 Vienna
Phone +43.1.545 27 00
office@noa-archive.com

www.noa-archive.com