SAT 3000 TRANSPORT™

More data, Better proxy, Faster workflow

powered by SAT *Smart Acquisition Technology™*

NLT's Smart Acquisition Technology revolutionizes the High Definition non-linear acquisition process with SmartLogging™ - apply constrained metadata to your video in a tapeless Avid DNxHD™ Digital Video workflow...

The Transport, powered by SAT Technology, targets the needs of the broadcast, film and production industries by providing richer metadata entry, a more powerful process for capturing video and acquiring data by recording digital, and staying digital through-out the entire process.

The Transport captures digital video direct to disk with no generation loss. With an easy-to-use color touch screen interface, the Transport is the DVR of choice in the industry, accepting HD-SDI video, 422 deck control and real-time metadata entry using the Multi-Transport Controller (SAT-MTC using a TCP/IP network).

Windows Media™ Compatible Simultaneously create Windows Media™ formatted content as a proxy while recording high resolution media

MXF™ MXF™ video file format, an open industry standard that provides for embedded metadata.

Features:

- **Incorporates SmartLogging™ and CamCutter™** Technology
- **Proxy (Option)** Simultaneously record high resolution and Windows Media™ video content to a FieldPak
- **AC or DC power** automatically switches to DC operation when power fails
- **FieldPak®** compatible with 160GB and Solid State FieldPaks
- **HD-SDI video input** built-in down converter provides SDI and Composite output connections
- **4 channels of digital audio** input and output, select from SDI embedded audio or AES audio
- **Touch screen interface** built-in confidence monitor and speaker
- **2 FieldPak bays** provide over 5 hours of video storage
- **Deck control** Sony BVW or SAT-MTC
- **EZ-Metadata keyboard entry**
- **Lightweight** under 10lbs

Benefits:

- **Ready to use** Avid high resolution and Proxy video, edit faster with metadata
- **Faster workflow** by capturing direct to FieldPaks and eliminate digitizing
- **Annotate Live** capture metadata during video acquisition
- **Native Avid DNxHD™** "Professional Grade" recording without generational losses
- **Multiple video formats**
  1080   50i /59.94i
  1080   23.976P
  720   50P /59.94P
- **Preview/Playout video** on LCD TFT immediately after acquisition
- **Large capacity recording,** over two hours of video on each 160GB FieldPak

Post Production:

MTC *Multi Transport Controller* Use multiple Transport recorders with Retro-Loop™ recording and live constrained metadata entry with a wireless network

- **Interoperability** using MXF™ open file format, supports multiple NLE workflows

HD Video

HD SDI Video In	BNC, SMPTE 292M
HD SDI Video Loop Out	BNC, SMPTE 292M
HD SDI Video Out1, Out2	BNC, SMPTE 292M

Video Down Converter

The internal HD down converter produces 3:2 pull down when 23.98FPS input is received. Down Converter quality level is monitor grade.

Composite Video Out	BNC, 1.0V-PP, negative sync, terminated at 75 ohms 525/60 NTSC, NTSC-J or 625/50 PAL
SDI output	BNC, SMPTE 259M

Compression
Avid DNxHD™

Project Format	Resolution	Frame Size	Bits	FPS	Bitrate (MBPS)
1080i / 59.94	DNxHD 220X	1920 x 1080	8/10	29.97	220
1080i / 59.94	DNxHD 145	1920 x 1080	8	29.97	145
1080i / 50	DNxHD 185X	1920 x 1080	8/10	25	185
1080i / 50	DNxHD 120	1920 x 1080	8	25	120
1080p / 23.976	DNxHD 175X	1920 x 1080	8/10	23.976	175
1080p / 23.976	DNxHD 115	1920 x 1080	8	23.976	115
1080p / 23.976	DNxHD 36	1920 x 1080	8	23.976	36
720p / 59. 94	DNxHD 220X	1280x720	8/10	59.94	220
720p / 59.94	DNxHD 145	1280x720	8	59.94	145
720p / 50	DNxHD 185X	1280x720	8/10	50	185
720p / 50	DNxHD 120	1280x720	8	50	120

Genlock

The HD SDI video output will be Genlocked to a Black Burst source or a Tri-Level Sync source. The Genlock input is looped to an output BNC using a passive circuit.

Timecode

Timecode is derived from one of two sources the embedded TC in SDI or the LTC input. The unit may also generate timecode as a master.

HD SDI Embedded	TC IN/OUT [SMPTE RP188]
LTC IN	BNC, analog TC
LTC OUT	BNC, analog TC

Audio

Four channels of audio are recorded by selecting from the 8 audio inputs: AES CH1234 or SDI Embedded CH1234.

Embedded HD SDI audio	4 CH, 16 bit, 48khz, embedded input and output stream
AES Digital Audio In	4 CH, 16 bit, 48khz, AES digital input BNC x2
AES Digital Audio Out	4 CH, 16 bit, 48khz, AES digital output BNC x2
Speaker	Mono Mix of left and right headphone selections
Headphone	Analog Stereo Output, Left mix of CH1/CH3, Right mix of CH2/CH4, +0dBu Nominal, Low Impedance, Variable output, Headphone replaces speaker output when ¼" phono headphone plug is engaged, Stereo audio volume adjustable.

Interfaces

Deck Control	D-sub 9 pin female, RS-422 Slave VTR emulation
Ethernet	RJ45 100baseT, deck control, real-time metadata entry using
RS232	D-sub 9 pin male, Maintenance Port
USB	2 TYPE A connectors, USB 2.0, keyboard and disk support

Power

Front panel on/off switch, rear panel AC power switch
AC operation 100 – 240VAC, 50/60Hz
DC 11-17VDC, XLR 4 pin, secondary priority to AC operation
Power Consumption 40 Watts

Dimensions

7.5 x 8.5 x 15 inches

Weight

Approximately 10 lbs