



NiceVision® NVSAT

SMART VIDEO
PROVEN VALUE

SMART VIDEO CODEC

NiceVision NVSAT is a smart video CODEC for encoding and streaming high-quality video over IP networks, as well as performing real-time distributed video analysis. Combining transmission and recording elements, NiceVision NVSAT is designed for high-quality monitoring applications, targeting customers that require effective video streaming over long distances using a dedicated or shared IP infrastructure.

Product highlights

- **2-8 video inputs at 25/30 fps, with audio support** – Dynamically changing frame-rates, resolutions and compression levels
- **Distributed real-time video analysis** – Detecting and tracking vehicles, baggage, people and intruders
- **High resolution video transmission** – 4CIF, 2CIF and CIF resolutions, at low latency
- **Smart monitoring and alarm management** – Instant investigation, streaming video upon alarm and effective bandwidth utilization
- **In-unit storage as well as centralized recording** – Enhanced resiliency to network failure
- **Advanced LoS control and multicasting**

Features

- 2-8 video inputs (at 25/30 fps)
- Frame rate, resolution and video quality change upon alarm or schedule
- 4CIF, 2CIF and CIF resolutions
- Real-time video analysis applications
- Advanced compression algorithm - MPEG4 Main Profile
- Local, internal storage of up to 500 GB
- Networked storage (NAS architectures) - up to 30TB per networked recorder
- Storage availability upon network failure – up to 5 days of local storage and video transmission upon network recovery
- Smart monitoring with instant event investigation (scenario reconstruction)
- Advanced GUI with multi-screen viewing (2x2, 3x3, 4x4 and more), maps and user-defined views (pages)
- Advanced video coding supporting both low bandwidth and low latency
- Small size form factor with optional rack/ceiling mounting
- Direct interface for PTZ keyboard control
- Integrated dry-contacts
- Advanced video authentication
- Audit-trail for tracking users system management activities
- SNMP-based event notifications
- Multi-language application
- Open API for third-party integration
- Same application for controlling all NiceVision products

Specifications

| | |
|---|---|
| Recording capacity (configuration dependent) | <ul style="list-style-type: none"> • 2-8 video inputs per unit • 1 audio input per unit |
| Video processing & compression | <ul style="list-style-type: none"> • Compression – MPEG4 Main Profile • Selectable compression rates per camera - 16Kbps to 8Mbps • Up to 30fps (NTSC) / 25fps (PAL) per camera • CIF, 2CIF and 4CIF resolutions • Video authentication |
| Video input and output | <ul style="list-style-type: none"> • Analog composite video input – NTSC/PAL 75 ohms • Digital video playback and monitoring over IP • Ethernet 10/100 with IP QoS & multicasting capabilities, supporting SNMP and NTP • Analog and VGA monitoring • OSD on each output (time, date, camera name and number; view status) |
| Video event triggers | <ul style="list-style-type: none"> • Video Motion Detection (VMD) per camera • Directional Motion Detection (based on advanced Object Tracking technology) • Video Analytics (Detection of Intruders, Baggage & Vehicles; Tailgating; Line control, People counting) • 8 input/output TTL interfaces • 2 output relay interfaces • Application Programming Interface (32-bit API) • Popup video upon alarm – instant investigation and smart monitoring capabilities |
| Audio | <ul style="list-style-type: none"> • Compressions - PCM • Digital audio monitoring and playback over IP |
| Storage media & architecture | <ul style="list-style-type: none"> • 500GB of internal hard drive storage • Up to 22.5 TB of networked storage (per recorder) • Centralized storage over IP networks (NAS) |
| Search capabilities | <p>Event-driven and time-driven searches, based on multiple criteria:</p> <ul style="list-style-type: none"> • Camera name or number • Date and time • Alarm trigger • External data • Comments • MotionTrak - offline motion tracking tool |
| PTZ Support | Integrated direct PTZ control supporting leading cameras, domes and PTZ controllers |
| Dimensions | <p>Width: 300mm. (11.8 inches) Depth: 270mm. (10.6 inches) Height: 94mm. / 2U (3.7 inches) Weight: From 5Kg (11 lbs.) to 7.5Kg (16 lbs.)</p> |
| Power source | 110/220VAC 60/50 Hz single phase |
| Power consumption & dissipation | <p>Peak AC watts: 200W Peak AC amps: 1A/220V, 2A/110V Power Dissipation: 500 - 800 BTU</p> |
| Ambient operating temperature | Operating temperature: 5°C to 40°C (40°F to 110°F) Operating humidity: 20% to 80% (non-condensing) |
| Safety standards | EN60950, UL 60950 |
| EMC standards | EN55022 Class-A, 55022, 55024, EN 61000-3-2/3, FCC Part 15 Class A |



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