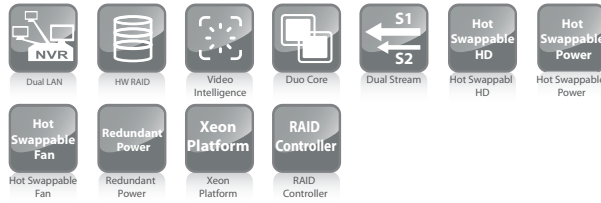# NVR2000 Series

### Enterprise Megapixel RAID NVR

- Optimized for Megapixel Video Recording
- Maximum 64CH Megapixel Video Recording
- Expandable to 160TB
- Hardware RAID Subsystem
- Data Protection, RAID 5, 6
- Built-in Surveon Enterprise VMS
- Installation & Integration Free
- 3 Year Warranty

| | | | | | | |
|---|---|---|---|---|---|---|
| NVR Dual LAN | HW RAID | Video Intelligence | Duo Core | S1 S2 Dual Stream | Hot Swappable HD Hot Swappabl HD | Hot Swappable Power Hot Swappable Power |
| Hot Swappable Fan Hot Swappable Fan | Redundant Power Redundant Power | Xeon Platform Xeon Platform | RAID Controller RAID Controller | | | |

3 Year Warranty

## ▍VMS Specifications

| | |
|---|---|
| **Live View** | • Real-time network camera discovery<br>• Versatile views of various screen divisions<br>• HTML and image overlays<br>• Multiple views supported<br>• View patrolling for single or multiple views<br>• Real time vidoe/event alarm display<br>• Instant playback<br>• Video clip bookmarking |
| **eMAP** | • Drag-n-drop camera manipulation<br>• Directional camera display<br>• Hierarchical map structure<br>• Real time event alert<br>• Instant live video of camera<br>• Multiple maps supported |
| **PTZ** | • Pan, tilt, zoom operations (dependent of camera)<br>• Built-in, floating PTZ control panel<br>• Preset position (dependent of camera)<br>• Scheduled or continous camera patrolling<br>• Event-driven camera patrolling<br>• On Screen PTZ control |
| **Multiple Displays** | • Up to 8 monitors<br>• Supports live view, playback, eMap functions<br>• Direct display to secondary monitor(s) |
| **Investigation** | • Search by date, time, camera<br>• Search by pre-defined recent time<br>• Search by VI event combinations<br>• Search over multiple days<br>• Search over multiple cameras<br>• Video clip bookmarking and commenting<br>• Search via built-in VI analyzer<br>• Customizable bookmark<br>• Intuitive, video thumbnail search results<br>• Cue-in, cue-out and repeat<br>• Quick playback by video thumbnail<br>• 1/8, 1/4, 1/2, 1x, 2x, 4x, 8x play, pause, stop<br>• AVI-formated video clip export<br>• 4-channel synchronized playback |
| **Instant Playback** | • Supported in video alarm, event alarm, view functions<br>• Pre-defined playback durations<br>• Video clip bookmarking |
| **Video Intelligence** | • General motion detection<br>• Missing object detection<br>• Foreign object detection<br>• Intrusion detection<br>• Forbidden area detection<br>• Tampering detection<br>• Virtual fence<br>• Object counting |

| | |
|---|---|
| **Recording Policy** | • Continuous recording<br>• Manual recording<br>• Scheduled recording on daily or weekday basis<br>• Event-driven recording along with rules<br>• Pre-alarm recording up to 45 minutes<br>• Post alarm recording up to 45 minutes |
| **Rule Manager** | • Conditional recording/alert/notification<br>• Email, FTP, SMS, phone notifications<br>• Sound, alarm, round-the-clock alerts |
| **Remote Management** | Full functional operation & management via standalone VMS Client |
| **Remote Client** | • Web Client<br>• iPhone Client |
| **3rd Party IPCAM** | ACTi, Arecont Vision, Asoni, AVTECH, AXIS, Bosch, Dahua, HIKVISION, IQinVision, Lilin, MOBOTIX, Panasonic,SAMSUNG, SONY, VIVOTEK |
| **Storage Expansion** | • Supports Infortrend RAID storage<br>• Built-in RAID storage management |
| **General & Misc** | • Video codec: H.264, MPEG4, MJPEG<br>• Image enhancement<br>• Video privacy mask<br>• Digital zoom in, zoom out<br>• Log viewer<br>• Windows lockup<br>• Client auto login<br>• Digital I/O management<br>• Automatic storage recycling<br>• Client-server architecture<br>• Guaranteed performance of long period recording<br>• Customizable appearance of Surveon logo<br>• Supports up to 64 channels megapixel recording<br>• Configurable video retention period<br>• Digital watermark proofing<br>• Language supported: English, French, German, Portuguese, Spanish, Simple Chinese, Traditional Chinese, Italian, Japanese, Russian, Slovak, Czech, Dutch and Polish<br>• Support DDNS Function<br>• Support CH Products USB joystick<br>• Support etherent I/O device*<br>• Support NTP Server synchronized* |

\* Available soon

www.surveon.com

**Surveon**
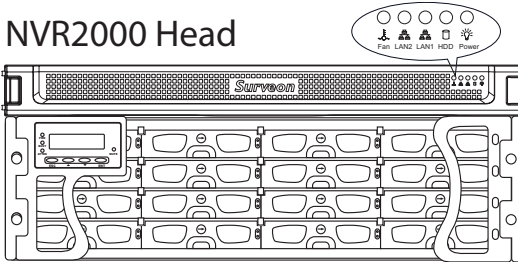Complete Megapixel Solutions

# NVR2000 Series

Enterprise Megapixel RAID NVR

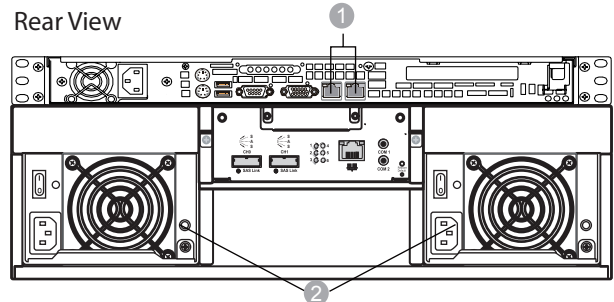## Functions

Front View

### NVR2000 Head



### RAID Subsystem

Rear View



**1** 2 x Ethernet Port

**2** Redundant Power Supply & Redundant Thermal Fan

## Package Content (NVR2000 Head)

| Contents | Quantity |
|---|---|
| NVR2000 Series Network Video Recorder | 1 |
| Client Installation CD/DVD | 1 |
| Quick Installation Guide | 1 |
| Slide Rails | 2 |
| Slide Bracket | 2 |
| Cable Tie | 2 |
| Power Cord | 2 |
| RAID Subsystem* | 1 |

## Ordering Information

| Part Number | Description |
|---|---|
| NVR2016<br>NVR2016-12B<br>NVR2016-16B | 16CH, 10 days recording, up to 8TB<br>16CH, 30 days recording, up to 22TB, RAID5<br>16CH, 40 days recording, up to 30TB, RAID5 |
| NVR2025<br>NVR2025-12B<br>NVR2025-24B | 25CH, 7 days recording, up to 8TB<br>25CH, 20 days recording, up to 22TB, RAID5<br>25CH, 40 days recording, up to 44TB, RAID5 |
| NVR2032-12B<br>NVR2032-24B<br>NVR2032-36B | 32CH, 15 days recording, up to 22TB, RAID5<br>32CH, 30 days recording, up to 44TB, RAID5<br>32CH, 45 days recording, up to 66TB, RAID5 |
| NVR2048-12B<br>NVR2048-24B<br>NVR2048-36B | 48CH, 10 days recording, up to 22TB, RAID5<br>48CH, 20 days recording, up to 44TB, RAID5<br>48CH, 30 days recording, up to 66TB, RAID5 |
| NVR2064-12B<br>NVR2064-24B<br>NVR2064-36B<br>NVR2064-48B | 64CH, 7 days recording, up to 22TB, RAID5<br>64CH, 15 days recording, up to 44TB, RAID5<br>64CH, 20 days recording, up to 66TB, RAID5<br>64CH, 30 days recording, up to 88TB, RAID5 |

* Recording of megapixel, bit rate=4 Mbps, 24 hr per day, based on 2TB HDD.
** HDD is not included in the above P/N.

## Optional Accessories

| Part Number | Description |
|---|---|
| H72A2XA2XX-0030 | Enterprise, 3TB SATA HDD |
| H72A1XA3XX-0030 | Enterprise, 2TB SATA HDD |
| H72A2XA3XXDX-0030 | Desktop, 3TB SATA HDD |
| H72A1XA3XXDX-0030 | Desktop, 2TB SATA HDD |

## Hardware Specifications

| NVR2000 Head | |
|---|---|
| System | Client-server architecture, Chassis: 1U 19" Rack |
| Server Processor | Intel® Dual Core @2.5GHz |
| System Memory | 4GB, DDR2 |
| I/O Interface | • RJ-45: 2xGigabit Ethernet<br>• SAS Expansion port |
| Electrical | • Input voltage :115 V AC @ 6 A/240 V AC @ 3 A<br>• Frequency: 47 to 63 Hz<br>• Power: Single 250 watt |
| Power Consumption | Rated output power: 300 W |
| Weight | Gross weight: 17.3 kg (38 lb.) |
| Dimensions | 50.4(W)x 43.7(D)x 4.3(H) cm (19.85 " x 17.2 " x 1.7 ") |
| Environmental | Temperature:<br>• Operating: 10 °C to 35°C (50 ° F to 95 ° F)<br>• Non-operating: -40 °C to 70°C (-40 ° F to 158 ° F)<br>Humidity:<br>• Operating: 5 % to 95 %, non-condensing<br>• Non-operating: 5 % to 95 % non-condensing |
| Certificates | FCC Class A, CE, CB, UL60959/ IEC 60950, CCC |
| **RAID Subsystem** | |
| Host Connectivity | 1 or 2 SAS 4x wide ports per controller |
| Drive Connectivity | SAS/SATA-II disk, 12 or 16 drives per system, hot swappable |
| Form Factor | 2~3U, 19 inch rackmount |
| RAID Functionality | RAID 0, 1 (0+1), 3, 5, 6, 10, 30, 50, 60, hot-spare, online expansion, RAID migration, intelligent drive handling |
| Environmental | Operating temperature:  5° to 40°C (35°C if battery is applied)<br>Non-operating temperature: - 40° to 60°C<br>Humidity: 5 to 95%, non-condensing |
| Dimensions | 12 Bay: chassis without handles: 446(W) x 88(H) x 490(D) mm; chassis with handles: 482 (W) x 88(H) x 505(D) mm<br>16 Bay: chassis without handles: 445(W) x 130(H) x 488.2(D) mm; chassis with handles: 482.6(W) x 131(H) x 504.3(D) mm |
| Weight | Gross weight : 12 Bay:25kg ; 16 Bay: 30.5kg |
| Certification | CE, FCC Class B, BSMI, UL, GOST-R |

**Surveon**
Complete Megapixel Solutions