

# SATATYA NVR1601XS P2

16 Channel NVR with 1 SATA Port



- **Compression:** H.265
- **Decoding:** 4K
- **Channel:** 16 Channels
- **Storage:** 1 SATA Port(10TB)
- **Throughput:** 360 Mbps

Matrix NVRs are packed with high end processors to deliver all the functionalities like high resolution recording, playback, simultaneous local and remote monitoring along with storing for higher number of days. Furthermore, these latest NVRs are also backed with an intelligent software to detect threats and send instant notifications for real-time security. All in all, these comprehensive, flexible, reliable, integrated NVRs provide a proficient, persistent and a preventive security solution suitable for enterprises and multi-location offices.

## KEY FEATURES



H.265 Compression



4K Decoding



12MP Recording Capability



Cascading



Adaptive Recording



Camera-wise Recording Retention

## CERTIFICATION



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| TECHNICAL SPECIFICATIONS |   |
|--------------------------|---|
| <b>VIDEO</b>             |   |
| Input                    | 16IP Channels   |
| Output                   | HDMI (2.0) – 1 Port (Main)  |
| Compression              | H.265/H.264/Motion JPEG   |
| <b>AUDIO</b>             |   |
| Compression              | G.711 $\mu$   |
| <b>THROUGHPUT</b>        |   |
| Downlink Throughput      | 180 Mbps<br>Following Scenarios are Considered:<br>1. Cameras Streaming to Device<br>2. Cameras of Cascaded Devices being Viewed on HDMI<br>3. Streaming from NAS for local/web client      |
| Downlink Throughput      | 213 Mbps<br>Following scenarios are considered:<br>1. Cameras Streaming to Device<br>2. Cameras of Cascaded Devices being Viewed on HDMI<br>3. Recording in Local HDDs, No NAS Connectivity |
| Uplink Throughput        | 180 Mbps<br>Following scenarios are considered:<br>1. Cameras streaming to web client<br>2. Storage or backup to NAS<br>3. Streaming to VMS   |
| Uplink Throughput        | 205 Mbps<br>Following scenarios are considered:<br>1. Cameras Streaming to Web Client<br>2. NVR streaming to cascaded NVRs/VMS  |
| Simultaneous Log-in      | 9+1(Admin)  |
| <b>DISPLAY</b>           |   |
| Digital Zoom on Live     | Yes   |
| Snapshot                 | Yes (JPEG)  |
| Multiple Camera Viewing  | Through Cascading (upto 20 devices)   |
| OSD                      | Channel Number and Name, Status, Video Loss, Recording and Disabled Channel (As per camera support)   |
| <b>RECORDING</b>         |   |
| Image Resolution         | 12MP, 8MP, 5MP, 3MP, 2MP, 1080P, 720P, D1, CIF  |
| Pre-Record               | Up to 30 Sec  |
| Post-Record              | 10-300 Sec  |
| Snapshot Format          | JPEG  |
| Recording Format         | AVI, Native   |

# SATATYA NVR0401XS P2

4 Channel NVR with 1 SATA Port



|   |   |
|---|---|
| Recording Types                           | Scheduled, Manual, Alarm and COSEC  |
| <b>STORAGE AND BANDWIDTH OPTIMIZATION</b> |   |
| Adaptive Recording                        | Automatically Reduces the Number of Frames Captured Per Second Where There is No Motion, Thereby Saving Storage Space.  |
| Bandwidth Optimization                    | Automatically Adapts Optimized Resolution on Local Display through HDMI   |
| <b>PLAYBACK AND BACKUP</b>                |   |
| Synchronous Playback                      | 16 Channels @ 1080P (via HDMI)  |
| Search Mode                               | Date and Time, Camera, Recording Type, Recording Drive  |
| Playback Modes                            | Fast Forward, Slow Forward, Slow Reverse, Fast Reverse at Different Speed Control, Next-Previous Frame  |
| Backup                                    | Manual Backup over USB and NAS,<br>Scheduled Backup over USB, NAS and FTP<br>Scheduled Backup over USB through USB 2.0 interface<br>Manual Backup over USB through USB 3.0 interface<br>Quick Backup over USB, NAS and Local PC             |
| Configuration Backup                      | Yes   |
| Network Protocols                         | TCP/IP, DHCP, PPPOE, DDNS, Free Matrix DNS, FTP, SMTP, NTP, RTP/RTSP, CIFS/NFS, Network Acceleration, UDP   |
| Maximum User                              | 128   |
| Remote Operation                          | Monitor, PTZ Control, Playback, System Setting, File Download, Log Information, Upgrade   |
| <b>EVENTS AND ACTION</b>                  |   |
| Trigger Events                            | Motion Detection, View Tampering, Tripwire, Object Intrusion, Audio Exception, Missing Object, Suspicious Object, Loitering, Object Counting, Recording Start, Recording Fail, Camera Offline, Camera Online                                |
| System Events                             | Manual Trigger, On Boot Alarm, Storage Alert, Disk Volume Full, Disk Fault, Scheduled Backup Fail   |
| Actions                                   | Recording on Selected Channel, Upload Images on FTP/Email server, Email Notification with Snapshot, TCP Notification, Recall PTZ Preset Position, Turn On/Off Alarm Outputs, Buzzer Notification, SMS Notification, Calling from Mobile App |
| <b>STORAGE INTERFACE</b>                  |   |
| SATA Interface                            | 1 SATA III (10TB per port)  |
| NAS                                       | 2 NAS (CIFS, NFS)   |
| RAID                                      | Single Disk   |
| Recording / Backup Retention              | Camera wise, HDD usage % wise, Day wise   |
| <b>INTERFACE</b>                          |   |
| Network Interface                         | 1 Port x Ethernet (RJ-45) 10/100/1000Mbps   |
| USB                                       | 2 Ports (1x USB 3.0, 1x USB2.0)   |
| LED                                       | System Status LED, Power LED  |

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4 Channel NVR with 1 SATA Port



|                                  |  |
|----------------------------------|--|
| Reset Switch                     | Yes                                    |
| Buzzer                           | Yes                                    |
| <b>SYSTEM INTERFACE</b>          |  |
| Processor                        | Quad-core 64-bit Cortex-A55 processor  |
| RAM                              | 2GB                                    |
| Flash                            | 4GB                                    |
| OS                               | Embedded Linux                         |
| Control Mode                     | Mouse, Device Client and Mobile Client |
| <b>CAMERA SUPPORT</b>            |  |
| Third Party Camera Support       | Cameras with ONVIF 2.0 & above         |
| <b>ENVIRONMENT CONDITION</b>     |  |
| Operating Temperature            | 0°C to +45°C (32°F to 113°F)           |
| Humidity Range                   | 5% to 95% RH Non-Condensing            |
| <b>ELECTRICAL AND MECHANICAL</b> |  |
| Power Input                      | 12V DC, 2A                             |
| Dimensions(LxBxH)                | 266 X 157 X 44 mm                      |
| Weight                           | 490 g approx                           |

\*Note: Specifications are subject to change without prior notice\*

## ABOUT MATRIX

Established in 1991, Matrix is a leader in security and telecom solutions for modern businesses and enterprises. Matrix, an innovative, technology driven and customer focused organization, is committed to keep pace with the revolutions in security and telecom industries. With more than 40% of its human resources dedicated to the development of new products, Matrix has launched cutting-edge products such as Unified Communications, IP-PBX, Universal Gateways, Convergence, VOIP Gateways, GSM Gateways, IP Video Surveillance, Access Control and Time-Attendance. These solutions are feature-rich, reliable and conform to the international standards. Having global footprints in Europe, North America, South America, Africa, and Asia through an extensive network of more than 1000 system integrators, Matrix ensures that the products serve the needs of its customers faster and longer. Matrix has gained trust and admiration of customers representing the entire spectrum of industries. Matrix has won many national and international awards for its innovative products.



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