

# SATATYA NVR1602X

## 16 Channel NVR with 2 SATA Port



- **Compression:** H.265
- **Decoding:** 4K
- **Channel:** 16 Channels
- **Storage:** 2 SATA Port (10TB each)
- **Throughput:** 512Mbps

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.

### USP



H.265 Compression Technique



4K Decoding Technique



12MP Recording Capacity



Cascading



Adaptive Recording



RAID Support

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TECHNICAL SPECIFICATIONS	
<b>VIDEO</b>	
Input	16 IP Channels
Output	HDMI (2.0) – 1 Port (Main)
Compression	H.265/H.264/Motion JPEG
<b>AUDIO</b>	
Input	1 Channel, RCA Port (2.0Vp-p), Range (-2dBu to 22dBu)
Output	1 Channel, RCA Port Mono, Unbalanced Output, (2.0Vp-p), Range (-2dBu to 22dBu)
Compression	G.711μ
Two Way Audio	Yes
<b>THROUGHPUT</b>	
Downlink Throughput	256Mbps Following Scenarios are Considered: 1. Cameras Streaming to Device 2. Cameras of Cascaded Devices are Being Viewed on Local 3. Streaming from NAS for Local/Web Client
Uplink Throughput	256Mbps Following scenarios are considered: 1. Cameras Streaming to Web Client 2. Storage or Backup to NAS
Simultaneous Log-in	9+1(Admin)
<b>DISPLAY</b>	
Split (Through LAN/HDMI)	1x1, 2x2, 3x3, 4x4, 1+5, 1+7, 3+4, 2+8, 1+12, 1⊕+12, 1+9, 4+9,2+12, 5x5, 6x6, 8x8 and Sequential
Local Decoding	4x 4K/10x 3MP/16x 1080p/64 x D1
Digital Zoom on Live	Yes
Snapshot	Yes
Multiple Camera Viewing	Through Cascading (up to 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, 720P, D1, CIF
Pre-Record	Up to 30 Sec
Post-Record	10-300 Sec
Snapshot Format	JPEG
Recording Format	Native
Recording Types	Scheduled, Manual, Alarm and COSEC
<b>STORAGE AND BANDWIDTH OPTIMIZATON</b>	
Adaptive Recording	Automatically Reduces the Number of Frames Captured Per Second Where There is No Motion, Thereby Saving Storage Space.
Bandwidth	Automatically adapts optimized resolution on local display through HDMI
<b>PLAYBACK AND BACKUP</b>	
Synchronous Playback	16 Channels @ 1080P (via HDMI)

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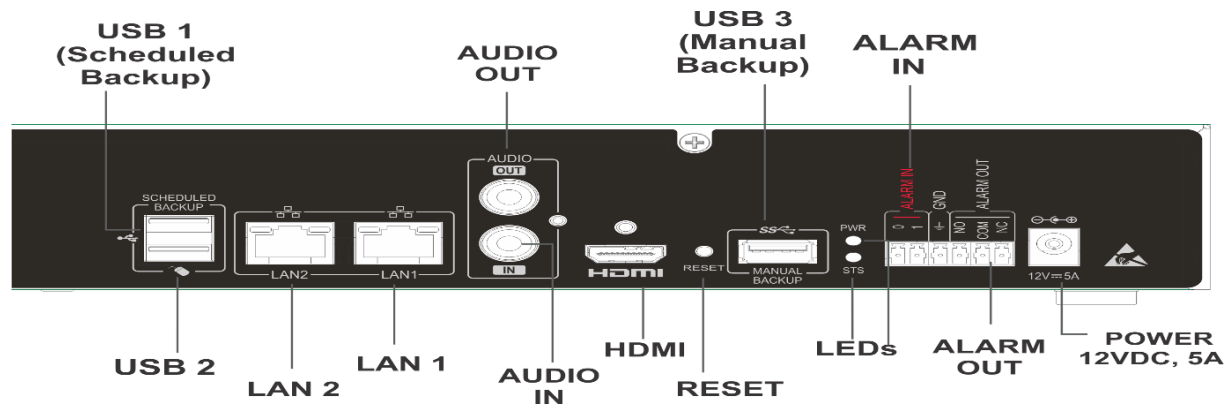
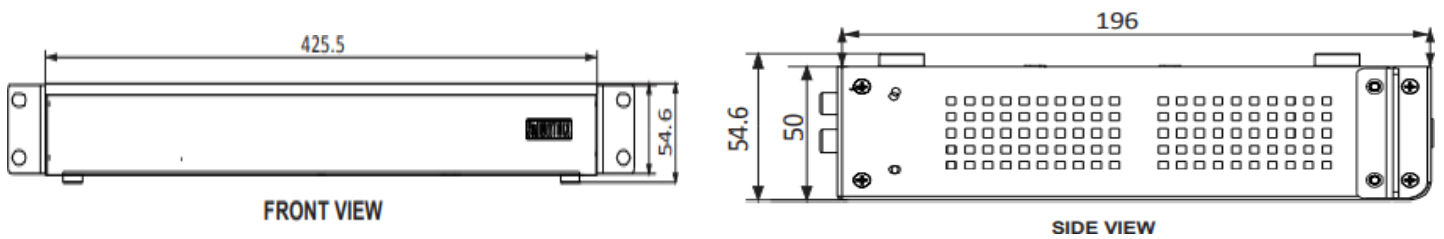
Search Mode	Date and Time, Camera, Event, Recording Type
Playback Modes	Fast Forward, Slow Forward, Slow Reverse, Fast Reverse at Different Speed Control, Next-Previous Frame
Backup	Manual Backup over USB and NAS, Scheduled Backup over USB, NAS and FTP Schedule Backup over USB through USB2.0 Interface Manual Backup over USB through USB3.0 Interface Quick Backup over USB, NAS and Local PC
Configuration Backup	Yes
Network Functions	TCP/IP, DHCP, PPPOE, DDNS, Free Matrix DNS, FTP, SMTP, NTP, RTP/RTSP, CIFS/NFS, Network Acceleration, UDP
Maximum User	120
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, Schedule Backup Fail
Actions	Recording on Selected Channel, Upload Images on FTP/Email Server, Email Notification with Snapshot, TCP Notification, SMS Notification, Calling from Mobile App
<b>STORAGE INTERFACE</b>	
SATA Interface	2 SATA III (10TB per port)
NAS	2 NAS (CIFS, NFS)
USB	1 TB USB Drive
RAID	RAID-0, RAID-1
Retention	Camera wise, HDD usage % wise, Day wise
<b>INTERFACES</b>	
Network Interface	2 Ports x Ethernet (RJ-45) 10/100/1000Mbps
USB	3 Ports (1x USB 3.0, 2x USB2.0)
LED	System Status LED, Power LED
Alarm Input	2
Alarm Output	1
Reset Switch	Yes
Buzzer	Yes
<b>SYSTEM INTERFACE</b>	
Processor	ARM Cortex A17 Quad-Core
RAM	4GB
Flash	2GB
OS	Embedded Linux
Control Mode	Mouse, Web Client and Mobile Client
<b>CAMERA SUPPORT</b>	
Third Party Camera Support	Cameras with ONVIF 2.0 and above

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ENVIRONMENT CONDITIONS	
Operating Temperature	0°C to +50°C (32°F to 122°F)
Humidity range	5% to 95% RH Non-Condensing
ELECTRICAL AND MECHANICAL	
Power Input	12VDC, 5A
Dimension(W×H×D)	425.5 (without clamp) × 54.6 × 196
Weight (Kg)	1.68kg

### DIMENSIONS



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### 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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