

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.

USP



H.265 Compression Technique



4K Decoding



12MP Recording Capacity



Cascading



Adaptive Recording



Camera Wise Recording Retention

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TECHNICAL SPECIFICATIONS	
VIDEO	
Input	16 IP Channels
Output	HDMI (2.0) – 1 Port (Main)
Compression	H.265/H.264/Motion JPEG
AUDIO	
Compression	G.711 μ
THROUGHPUT	
Downlink Throughput	180 Mbps Following Scenarios are Considered: 1. Cameras Streaming to Device 2. Cameras of Cascaded Devices being Viewed on HDMI 3. Streaming from NAS for local/web client
Downlink Throughput	213 Mbps Following scenarios are considered: 1. Cameras Streaming to Device 2. Cameras of Cascaded Devices being Viewed on HDMI 3. Recording in Local HDDs, No NAS Connectivity
Uplink Throughput	180 Mbps Following scenarios are considered: 1. Cameras streaming to web client 2. Storage or backup to NAS 3. Streaming to VMS
Uplink Throughput	205 Mbps Following scenarios are considered: 1. Cameras Streaming to Web Client 2. NVR streaming to cascaded NVRs/VMS
Simultaneous Log-in	9+1(Admin)
DISPLAY	
Local Decoding	2x 4K/8x 1080p/16x 720p/ 36x D1 @ 30FPS
Split(Through LAN/HDMI)	1x1, 2x2, 3x3, 4x4, 1+5, 1+7, 3+4, 2+8, 1+12, 1 \odot +12, 1+9, 4+9,2+12, 5x5, 6x6 and Sequential
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)
RECORDING	
Image Resolution	12MP, 8MP, 5MP,3MP, 2MP, 1080P, 720P, D1, CIF
Pre-Record	Up to 30 Sec

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Post-Record	10-300 Sec
Snapshot Format	JPEG
Recording Format	AVI, Native
Recording Types	Scheduled, Manual, Alarm and COSEC
STORAGE AND BANDWIDTH OPTIMIZATION	
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
PLAYBACK AND BACKUP	
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, Scheduled Backup over USB, NAS and FTP Scheduled Backup over USB through USB 2.0 interface Manual Backup over USB through USB 3.0 interface 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
EVENTS AND ACTION	
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
STORAGE INTERFACE	
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
INTERFACE	

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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
Reset Switch	Yes
Buzzer	Yes
SYSTEM INTERFACE	
Processor	Quad-core 64-bit Cortex-A55 processor
RAM	2GB
Flash	2GB
OS	Embedded Linux
Control Mode	Mouse, Device Client and Mobile Client
CAMERA SUPPORT	
Third Party Camera Support	Cameras with ONVIF 2.0 & above
ENVIRONMENT CONDITION	
Operating Temperature	0°C to +40°C (32°F to 104°F)
Humidity Range	5% to 95% RH Non-Condensing
ELECTRICAL AND MECHANICAL	
Power Input	12V DC, 2A

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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