

SATATYA NVR1602X P2

16 Channel NVR with 2 SATA Ports



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

Matrix NVRs are packed with high-end processors to deliver functionalities like recording images of high resolution, playback, local and remote monitoring, and many more. The images captured can be stored for a higher number of days. Furthermore, these latest NVRs are also backed with 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 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	
VIDEO	
Input	16 IP Channels
Output	HDMI (2.0) – 1 Port (Main)
Compression	H.265/H.264/Motion JPEG
AUDIO	
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.711 μ
Two Way Audio	Yes
THROUGHPUT	
Downlink Throughput	180Mbps The following Scenarios are Considered: 1. Cameras Streaming to Device 2. Cameras of Cascaded Devices being Viewed on Local 3. Streaming from NAS for local/Web Client
Downlink Throughput	Downlink Speed -213 Mbps The following Scenarios are Considered: 1. Cameras Streaming to Device 2. Cameras of Cascaded Devices being Viewed on Local 3. Recording in Local HDDs, No NAS connectivity
Uplink Throughput	180Mbps The following Scenarios are Considered: 1. Cameras Streaming to Web Client 2. Storage or Backup to NAS
Uplink Throughput	Uplink Speed - 205 Mbps The following scenarios are Considered: 1. Cameras Streaming to Web Client 2. NVR streaming to cascaded NVRs/VMS
Simultaneous Log-in	9+1(Admin)
DISPLAY	
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 and Sequential
Local Decoding	2x 4K/8x 1080p/16x 720p/ 36x D1 @ 30FPS
Digital Zoom on Live	Yes (Scroll Zoom)
Snapshot	Yes (JPEG)
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)
RECORDING	
Image Resolution	12MP, 8MP, 5MP, 4MP, 3MP, 2MP, 720p, D1, CIF
Pre-Record	Up to 30 Sec

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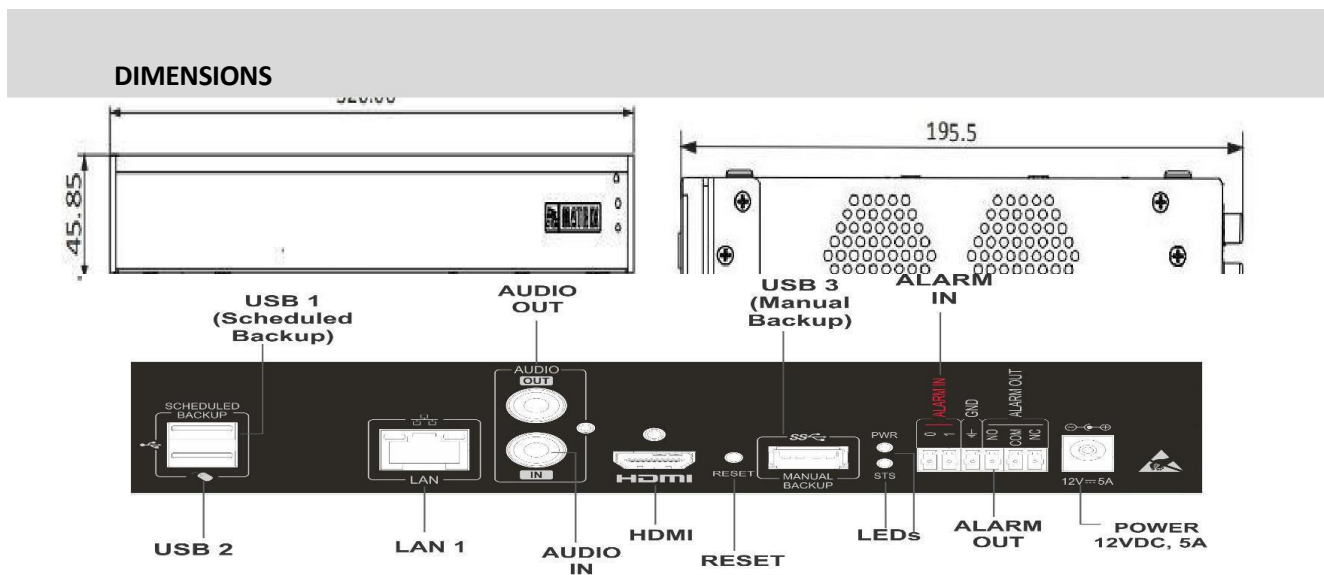
Post-Record	10-300 Sec
Snapshot Format	JPEG
Recording Format	AVI, Native
Recording Types	Scheduled, Manual, Alarm, and COSEC
STORAGE AND BANDWIDTH OPTIMIZATION	
Adaptive Recording	Reduces Frames Captured Per Second when there is No Motion
Bandwidth Optimization	Optimized Resolution on Local Display through HDMI
PLAYBACK AND BACKUP	
Synchronous Playback	16-channel
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, IPv4, IPv6, DHCP, PPPOE, DDNS, Free Matrix DNS, FTP,SMTP, NTP, RTP/RTSP, CIFS/NFS, Network Acceleration, UDP
Maximum Number User	128
Remote Operation	Monitor, PTZ Control, Playback, System Setting, File Download, Log Information, Upgrade
EVENTS AND ACTION	
Camera 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	2 SATA III (10TB per port)
NAS	2 NAS (CIFS, NFS)
USB	3 ports (2 x USB 2.0, 1x USB 3.0)
RAID	RAID 0, RAID 1
Recording/Backup Retention	Camera wise, HDD usage % wise, Day wise
INTERFACE	
Network Interface	2 Ports x Ethernet (RJ-45) 10/100/1000Mbps
USB	3 Ports (2x USB 2.0, 1x USB 3.0)

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LED	System Status LED, Power LED
Alarm Input	2
Alarm Output	1
Reset Switch	Yes
Buzzer	Yes
SYSTEM INTERFACE	
Processor	quad-core 64-bit Cortex-A55 processor
RAM	2GB
Flash	4GB
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 +50°C (32°F to 122°F)
Humidity Range	5% to 95% RH Non-Condensing
ELECTRICAL AND MECHANICAL	
Power Input	12V DC, 5A
Dimension(W×H×D)	320(without clamp) × 188 × 43
Weight (Kg)	1.36kg
CERTIFICATIONS	
Certifications	BIS, CE, FCC, RoHS
NDA Compliance	Yes

*Specifications are subject to change without prior notification



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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 keeping pace with the revolutions in the 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 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 the 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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