SATATYA NVR1601X
16 Channel NVR with 1 SATA Port

MATRIX®
SECURITY SOLUTIONS

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

4K DECODING
4K Decoding Technique

12 MEGA PIXELS
12MP Recording Capability

Cascading

Adaptive Recording

Camera-Wise Recording Retention

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.711µ
Two Way Audio	Yes

THROUGHPUT	
Downlink Throughput	256Mbps 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
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)

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, 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)

RECORDING	
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

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	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 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
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, Schedule 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)
USB	1 TB USB Drive
RAID	Single Disk
Retention	Camera Wise, HDD usage % wise, Day wise
INTERFACE	
Network Interface	1 Port 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
SYSTEM INTERFACE	
Processor	ARM Cortex A17 Quad-Core
RAM	2GB

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Flash	2GB
OS	Embedded Linux
Control Mode	Mouse, Web Client and Mobile Client
CAMERA SUPPORT	
Third Party Camera Support	Cameras with ONVIF 2.0 & above
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)	320(without clamp) × 45.5 x 195.5
Weight (Kg)	1.38kg

DIMENSIONS

320.00
45.85
FRONT VIEW

195.5
SIDE VIEW

USB 1 (Scheduled Backup)
AUDIO OUT
USB 3 (Manual Backup)
ALARM IN

SCHEDULED BACKUP
LAN
AUDIO OUT
IN
HDMI
RESET
MANUAL BACKUP
PWR
STS
ALARM IN
GND
ALARM OUT
NO COM NC
12V 5A

USB 2
LAN 1
AUDIO IN
HDMI
RESET
LEDs
ALARM OUT
POWER 12VDC, 5A
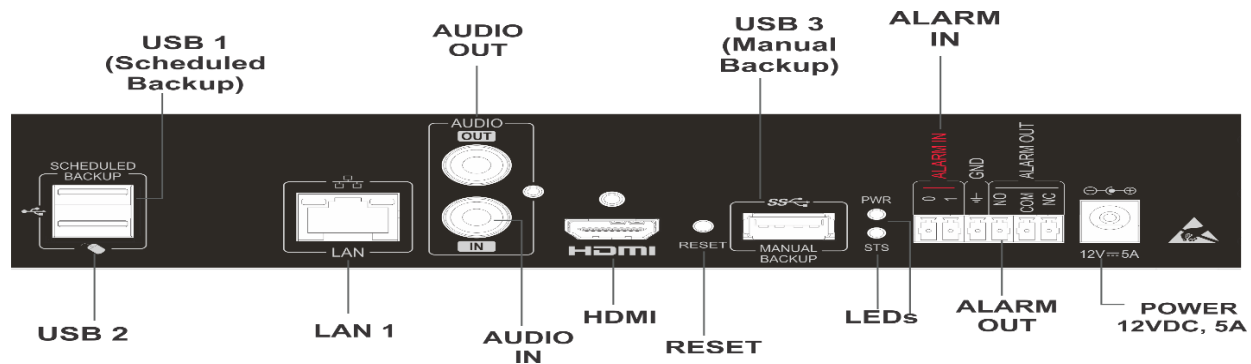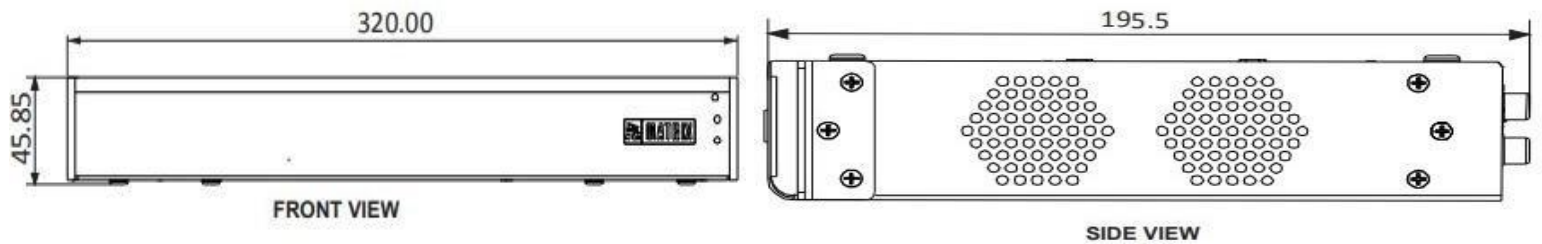
ABOUT MATRIX

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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