NVR

HVR

DVR

CMS

MOBILE CLIENT

CAMERAS

WEB CLIENT

Matrix SATATYA

Video Surveillance Solution for Enterprises

Video surveillance is an important part of any organization's security strategy. Security and safety of human resources, physical and intellectual assets are at stake. In addition, productivity and discipline aspects are also linked with video surveillance. However, most video surveillance solutions in the market today are designed by cutting corners in many vital functional and engineering aspects. These products cater only to narrow applications and are used mainly as recording devices. They lack critical and value-added functions large organizations and enterprises expect from a professional video surveillance solution. Obviously, the importance of selecting the right video surveillance solution cannot be overlooked.

Presenting Matrix SATATYA – A family of video surveillance solutions specifically engineered for large organizations to address their enterprise-grade applications. Matrix SATATYA family consists of NVRs, HVRs, DVRs, IP cameras, Analog cameras, Centralized Management Software, Web Client and Mobile Application.

In addition to meeting basic security and safety needs, Matrix SATATYA improves productivity, efficiency and discipline.

MATRIX
SECURITY SOLUTIONS

MATRIX MANUFACTURING

Based at Vadodara in India, Matrix manufacturing unit is operated by a team of professionally qualified and dedicated engineers. Spread over an area of 25,000 sq. ft, the structure houses departments like In-house R&D, Assembly, Testing, Quality Control, etc. The factory also houses a full-fledged technical support center spread over an area of 10,000 sq. ft, manned by trained and efficient engineers. The center provides immediate technical assistance to Matrix channel partners and customers in installation, operation and maintenance of the products.

MATRIX MARKETING

The marketing team at Matrix strongly believes in value-based marketing and strong networking. A special customer care cell provides prompt and professional response to the customers. Backed by an extensive network of more than 500 channel partners, Matrix ensures that the products serve the communication needs, faster and longer.

MATRIX R&D

All Matrix products are indigenously designed. With around 30% of its human resources dedicated to the development of new products, Matrix R&D is the foundation of its growth and sustenance. Matrix R&D is located at its corporate office and is spread over an area of 15,000 sq. ft. The R&D team designs products conforming to relevant international standards. Matrix makes substantial investment in R&D tools and equipment to stay abreast of the latest technological changes.
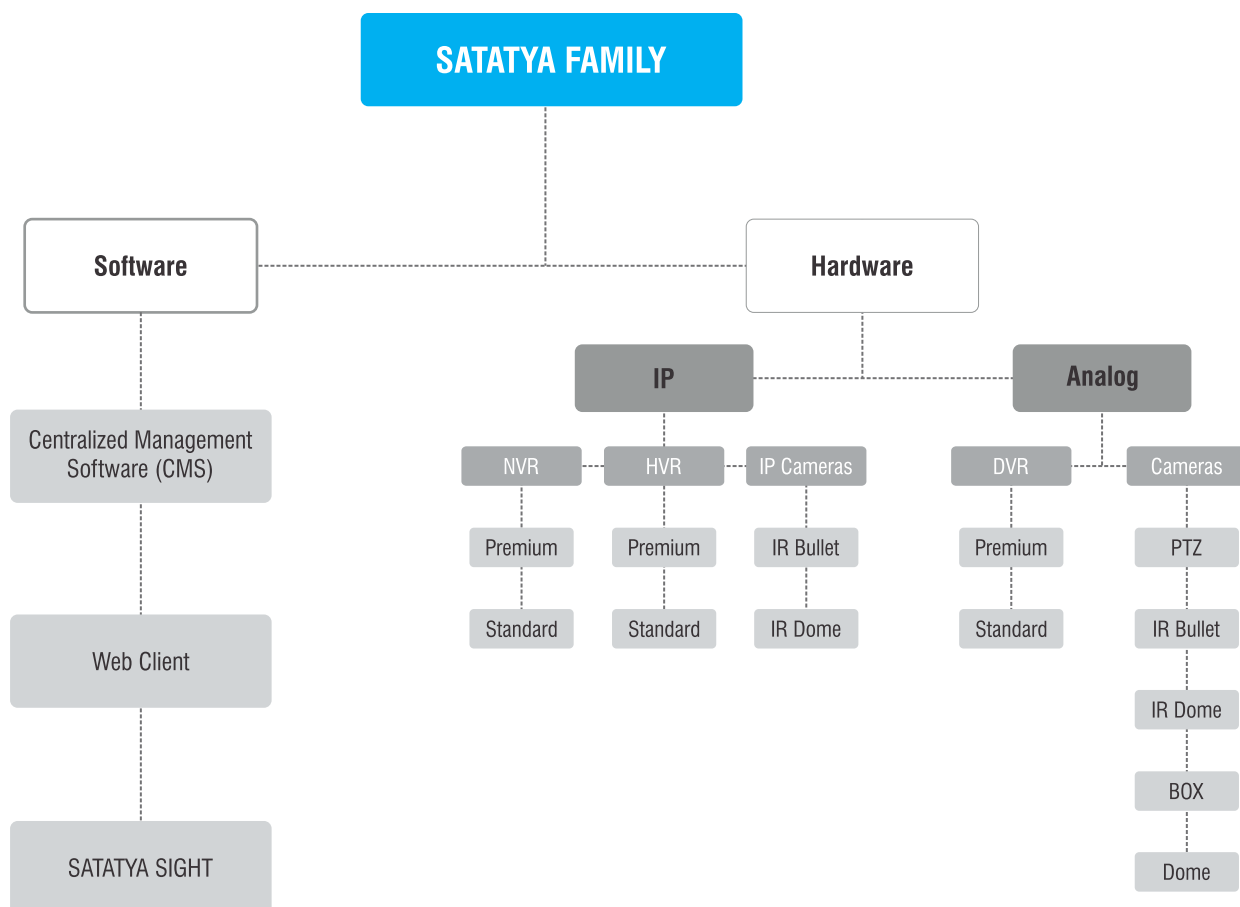
MATRIX ACHIEVEMENTS

- The Good Design Award 2013 presented by Japan Institute of Design Promotion
- India Design Mark Award 2012 for its Security Products
- IF Product Design Award 2011 for its Security Products
- RED DOT Design Award 2010 for its Security Products
- The Best SSI Unit Award 2008 by the Federation of Gujarat Industries
- The Best Electronics Company Award 2008, 2009 and 2014 from the Gujarat Electronics and Software Industries Association (GESIA)
- The 2007 IETE Corporate Award for Excellence in Computer & Telecommunication Systems by the Institution of Electronics & Telecommunication Engineers, India.
- The EFY Readers' Choice Award 2004, 2005, 2006, 2007, 2010 and 2011 of the Best PBX- KTS Company
- The 2004 Award for Excellence in Professional Electronics conferred by the Ministry of Communication and Information Technology

MATRIX AT A GLANCE

- Over 60 Telecom and Security Products
- 400+ Man-Years of R&D Experience
- 500+ Channel Partners Worldwide
- 400,000+ Satisfied Customers
- 24x7 Technical Support
- Global Footprints: Asia, Europe, Africa, North America and South America
- Quality Certifications: ISO, CE, FCC, TEC, ROHS

NVRs • HVRs • DVRs • IP CAMERAS • ANALOG CAMERAS • CMS • WEB CLIENT • MOBILE APPLICATIONS

SATATYA FAMILY

Software

- Centralized Management Software (CMS)
- Web Client
- SATATYA SIGHT

Hardware

IP

- NVR
  - Premium
  - Standard
- HVR
  - Premium
  - Standard
- IP Cameras
  - IR Bullet
  - IR Dome

Analog

- DVR
  - Premium
  - Standard
- Cameras
  - PTZ
  - IR Bullet
  - IR Dome
  - BOX
  - Dome

MATRIX VIDEO SURVEILLANCE SOLUTION

RECORDING
- Camera wise Motion and Scheduled Centralized Recording

CONNECTIVITY
- Mobile Broadband (3G/LTE) and Free Matrix DNS

MANAGEMENT AND MONITORING
- Monitor Multiple NVRs, HVRs and DVRs from a Single Device Locally

BANDWIDTH OPTIMIZATION
- Dual Streaming for Viewing and Recording

PLAYBACK AND SEARCH
- Timeline and Event based Search with Synchronous Playback

USER MANAGEMENT
- IP and MAC based Access and Blocking of Users

BACKUP
- Scheduled and Manual Backup to FTP, NAS and USB

INTEGRATION
- 3rd Party Integration with Access Control and Fire Alarm

DATA STORAGE
- Camera wise Recording Retention

INTEROPERABILITY
- All ONVIF or RTSP Compliant Cameras

EVENT RECOGNITION
- Motion Detection, View Tamper and Connection Failure
- Manual Trigger, Storage Alert, Disk Volume Full

NOTIFICATIONS
- SMS Notification, Email Notification with Snapshot
- Calling Assigned Contact Number from Mobile Application

IP SOLUTION

Matrix SATATYA NVR24P is a 24 channel enterprise-grade Network Video Recorder designed for performance and reliability that organizations expect from a professional video surveillance solution.
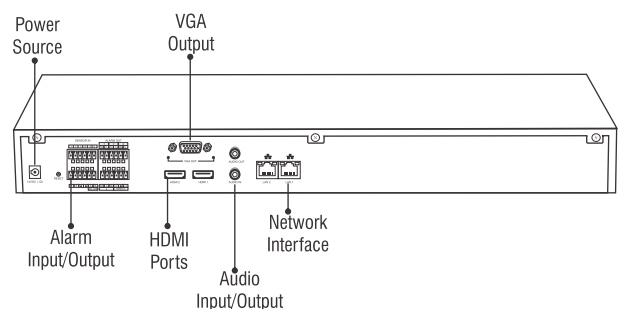
Matrix SATATYA NVR8S is an 8-channel Network Video Recorder designed for SOHO and SME organizations.

NETWORK VIDEO RECORDERS

Key Features:
- Camera wise Motion and Scheduled Centralized Recording
- Local CMS to Manage 5 NVRs/HVRs without Needing a Server
- Timeline and Event based Search
- Camera wise Data Storage in Days
- Up to 8TB Storage
- Scheduled and Manual Backup to NAS, FTP and USB
- 1080P, 720P, D1 and CIF Image Resolution
- Calling in case of any Event from the Mobile Viewer
- 2 Gigabit Ethernet Ports for 130Mbps Throughput
- Constant and Variable Bitrate for Bandwidth Optimization
- Dual Streaming for Viewing and Recording
- Ethernet based Integration with Matrix Access Control
- Onvif 2.0 and Above

Power Source   VGA Output

Alarm Input/Output   HDMI Ports   Audio Input/Output   Network Interface

H.264 · Full HD · Cascading · Scheduled Backup · SMS/Email Notification · Calling from SATATYA SIGHT · Matrix DNS Server · 130Mbps · ONVIF · UPNP

IP + ANALOG SOLUTION

Matrix SATATYA includes a range of detailed engineered 8 and 24 channels Standard and Premium variants of Hybrid Video Recording solutions. They offer the benefits of a highly mature Analog solution and security enhancements of IP solution.

SATATA HVR PREMIUM

SATATYA HVR0408P

4 Analog Channels, 8 IP Channels. Total 8 Channels

SATATYA HVR0824P

8 Analog Channels, 24 IP Channels. Total 24 Channels

SATATYA HVR1624P

16 Analog Channels, 24 IP Channels. Total 24 Channels

SATATA HVR STANDARD

SATATYA HVR0408S

4 Analog Channels, 8 IP Channels. Total 8 Channels

SATATYA HVR0824S

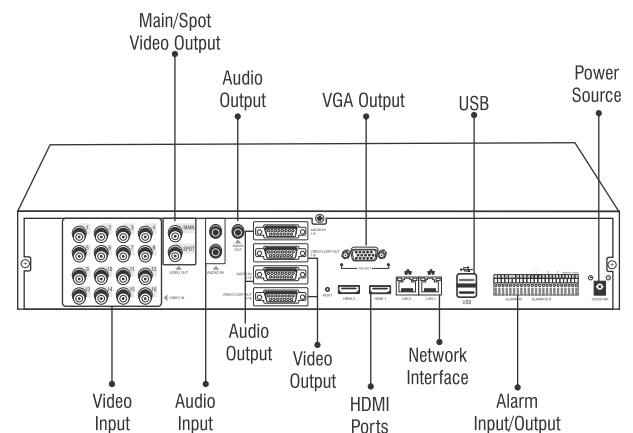8 Analog Channels, 24 IP Channels. Total 24 Channels

SATATYA HVR1624S

16 Analog Channels, 24 IP Channels. Total 24 Channels

HYBRID VIDEO RECORDERS

Key Features
- Camera wise Motion and Scheduled Centralized Recording
- Local CMS to Manage 5 NVRs/HVRs without Needing a Server
- Timeline and Event based Search
- Camera wise Data Storage in Days
- Up to 16TB Storage
- Scheduled and Manual Backup to NAS, FTP and USB
- 1080P, 720P, D1 and CIF Image Resolution
- Calling in case of any Event from the Mobile Viewer
- 2 Gigabit Ethernet Ports for 130Mbps Throughput
- Constant and Variable Bitrate for Bandwidth Optimization
- Dual Streaming for Viewing and Recording
- Ethernet based Integration with Matrix Access Control
- Onvif 2.0 and Above

Main/Spot
Video Output

Audio
Output

VGA Output

USB

Power
Source

Video
Input

Audio
Input

Audio
Output

Video
Output

HDMI
Ports

Network
Interface

Alarm
Input/Output

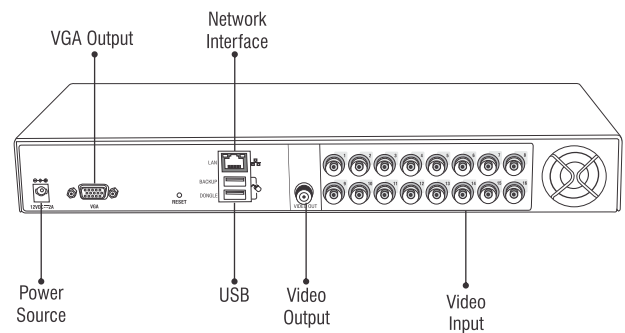| H.264 | Full HD | Cascading | Scheduled Backup | SMS/Email Notification | Calling from SATATYA SIGHT | Matrix DNS Server | 130Mbps | ONVIF | UPNP |

ANALOG SOLUTION

SATATYA DVR STANDARD

Designed with gold-flash PCBs, robust components and intuitive software, Matrix SATATYA DVRs are work-horses built for dependable performance. Centralized Management Software (CMS), Web Client and Mobile Application offer functions and flexibility to enhance security, safety and productivity for modern organizations.

DIGITAL VIDEO RECORDERS

Key Features

- Camera wise Motion and Scheduled Centralized Recording
- Local CMS to Manage 5 DVRs without a Server
- Timeline and Event based Search
- Define Camera wise Data Storage Days
- Up to 4TB Storage
- Scheduled and Manual backup to NAS/FTP and USB
- D1, 2CIF, CIF Image Resolution
- SMS/Email Notification with Snapshot
- 3G/LTE Connectivity
- Calling in case of any Event from the Mobile Viewer
- Dual Streaming for Viewing and Recording
- Ethernet based Integration with Matrix Access Control

VGA Output
Network Interface
Power Source
USB
Video Output
Video Input

| H.264 | D1 | Cascading | Synchronous Playback | Scheduled Backup | SMS/Email Notification | Calling from SATATYA SIGHT | Matrix DNS Server | 3G | Integration |

SATATYA RECORDING DEVICES SIMULTANEOUS FUNCTIONS

. Rec
RECORDING

MONITORING

INTEGRATION

SATATYA ANALOG SOLUTION

PLAYBACK AND SEARCH

STORAGE AND BACKUP

EVENTS AND ALERTS

SATATYA CAMERA RANGE

SATATYA CAMERA NOMENCLATURE

| CA	DR	600	FL	36	C	B
CA - Camera Analog **CI -** Camera IP	**Camera Type** D- Dome DR- IR Dome BR- IR Bullet BX- Box DRP- IR Dome PTZ	**Camera Resolution** XYZ - in TVL XY - in MP	**Lens Type** FL- Fixed VL- Vari Focal RL- Replaceable	**Lens Size** in 0.1mm	**Image Sensor** C-CMOS S-Super HAD CCD II	**Color** B-Black W-White G-Grey S-Silver

IP CAMERAS

Matrix SATATYA IP IR Bullet and IR Dome cameras are 1.3MP, 4mm lens designed to cover distance of 20 to 30 meters. These cameras come with PoE, Dual Streaming, NAS Storage, Configurable Frame Rate, Motion Detection and many other value-added features.

Key Features
- 1/3" Progressive Scan CMOS
- Maximum Image Resolution: 1280 × 960
- Board Lens 4mm
- H.264/M-JPEG Video Compression
- Dual Streaming Support
- 30 IR LEDs, IR Distance Coverage of up to 30m
- IR cut filter with auto switch
- 3D DNR
- Digital WDR
- Backlight Compensation
- Network Drive Storage
- 10/100Mbps Ethernet Interface
- CE, FCC, RoHS, IP66 and IK10 Certifications
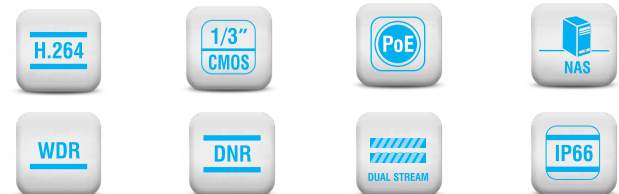
SATATYA ANALOG CAMERAS

Matrix SATATYA analog cameras are available in various form factors like dome, IR dome, IR bullet, box and PTZ to suite diverse surveillance needs of organizations. These are available with Sony 1/3" Super HAD CCD II or DIS image sensor and with fixed and vari focal lenses.

IR HIGH SPEED DOME (PTZ) CAMERAS
SATATYA CADRP700FL90CW

Sony Super HAD CCD II, 700TVL, 3-90mm Lens, 30x Optical Zoom, 12 IR Array LEDs to cover up to 150m IR Distance

SATATYA SONY SUPER HAD CCD II CAMERAS

SATATYA CABR600FL36SG

IR Bullet, 600TVL, 3.6mm Lens, 23 LEDs to cover up to 15m IR Distance

SATATYA CABR600FL60SG

IR Bullet, 600TVL, 6mm Lens, 23 LEDs to cover up to 15m IR Distance

SATATYA CABR600VL12SG

IR Bullet, 600TVL, 2.8-12mm Lens, 35 LEDs to cover up to 50m IR Distance

SATATYA CADR600FL36SB/W

IR Dome, 600TVL, 3.6mm Lens, 23 LEDs to cover up to 15m IR Distance

SATATYA CABX600RLSS

Box, 600TVL, C/CS Mount Replaceable Lens

SATATYA CAD600FL36SB/W

Dome, 600TVL, 3.6mm Lens

SATATYA CMOS CAMERAS

SATATYA CABR700FL36CW

IR Bullet, 700TVL, 3.6mm Lens, 12 LEDs to cover up to 20m IR Distance

SATATYA CABR700FL16CW

IR Bullet, 700TVL, 16mm Lens, Smart IR, cover up to 80m IR Distance

SATATYA CABR700VL12CW

IR Bullet, 700TVL, 2.8-12mm Lens, Smart IR, cover up to 40m IR Distance

SATATYA CADR700FL36CW

IR Dome, 700TVL, 3.6mm Lens, 12 LEDs to cover up to 20m IR Distance

SATATYA CADR600FL36CB/W

IR Dome, 600TVL, 3.6mm Lens, 23 LEDs to cover up to 15m IR Distance

SATATYA CAD600FL36CB/W

Dome, 600TVL, 3.6mm Lens

SATATYA PSBB150W

Power Supply with Battery Backup

With built-in power-supply and batteries, Matrix SATATYA PSBB150W ensures uninterrupted video surveillance even during power outages. It is designed to feed power to NVRs, HVRs, DVRs and cameras.
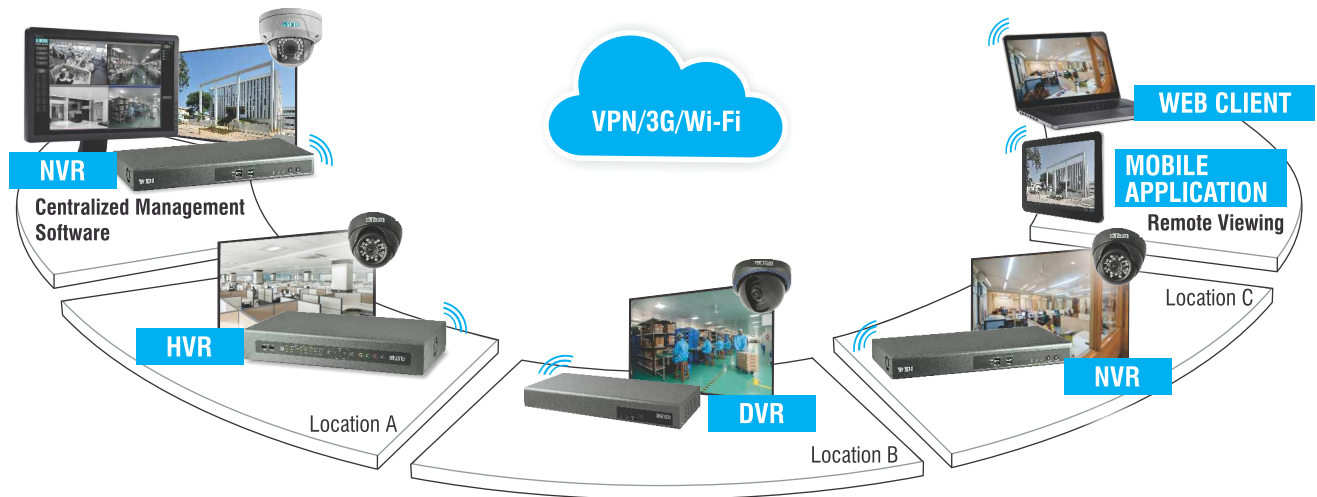
Key Features
- Suitable for NVRs, HVRs, DVRs, IP and Analog Cameras
- Power Rating: 150W
- Provision for 12V, 7AH X 2 Batteries (Supplied without Batteries)
- Backup Time of 1.5 to 3 Hours (Depending on Load)
- Wide Input Voltage Range
- Short-Circuit Protection

MATRIX SATATYA VIDEO SURVEILLANCE SOFTWARE SOLUTIONS

CENTRALIZED MANAGEMENT SOFTWARE (CMS)

Active management of multiple NVRs, HVRs and DVRs can be done using the SATATYA CMS. It allows configuring, recording, monitoring and management of multiple devices centrally. The various features offered by SATATYA CMS are as below:

NVR
Centralized Management Software

HVR

Location A

VPN/3G/Wi-Fi

DVR

Location B

WEB CLIENT

MOBILE APPLICATION
Remote Viewing

Location C

NVR

Key Features
- Addition of Multiple NVRs, HVRs and DVRs
- Viewing of 36 Cameras Simultaneously
- Custom Sequencing of Cameras over 10 Pages
- Centralized Recording Plan
- Monitoring Plan
- Camera Grouping
- Camera-wise Recording and Backup

- Synchronous Playback
- Event Log Search
- Audio Visual Alerts
- Video Display Alerts
- User Access Rights
- Intelligent E-Map
- Integration with Access Control

WEB CLIENT

Remote viewing and monitoring of an organization is of very high importance for any owner. The SATATYA Web Client helps in monitoring the NVRs, HVRs or DVRs even when the owner is not on the premises. This helps in increasing the productivity, efficiency and discipline of the organization.

Key Features
- View and Configure a SATATYA NVR, HVR or DVR
- Synchronous/ Asynchronous Playback
- System Log of All Events
- Health Status of Connected Device
- Camera wise Recording Retention
- Camera wise Backup Retention
- Camera wise Constant and Variable Bit Rate
- Camera wise Storage and Scheduled Backup
- SMS and Email Notifications
- Camera, Device and Sensor Event Alerts
- Storage Calculator
- User Access Rights
- Integration with Access Control

SATATYA SIGHT
MOBILE APPLICATION

SATATYA SIGHT is mobile application for Matrix video surveillance permits organizations to monitor and manage their premises remotely. To further enhance the remote viewing experience for an enterprise level user, SATATYA SIGHT provides more flexibility and enhanced security with the features it offers.

Key Features
- Addition of up to 50 Devices
- Viewing of the scene can be done either in Mainstream or Sub-Stream
- Playback of Recorded Data
- Favorite Channel
- Digital Zoom
- PTZ Control
- Calling per Channel in case of any Event

PRODUCT SELECTION GUIDE

RECORDING DEVICES

		SATATYA NVR8S	SATATYA NVR24P	SATATYA HVR0408S	SATATYA HVR0824S	SATATYA HVR1624S	SATATYA HVR0408P	SATATYA HVR0824P	SATATYA HVR1624P	SATATYA DVR8S	SATATYA DVR16S
Video	Analog Channels	x	x	4	8	16	4	8	16	8	16
	IP Channels	8	24	8	24	24	8	24	24	x	x
	Total Channels	8	24	8	24	24	8	24	24	x	x
	VGA Main	1	1	1	1	1	1	1	1	1	1
	HDMI Main	1	1	x	1	1	1	1	1	x	x
	HDMI Spot	x	1	x	x	x	x	1	1	x	x
	CVBS Main	x	x	x	x	x	x	1	1	x	x
	CVBS Spot	x	x	x	1	1	1	1	1	1	1
	Loop Output	x	x	x	x	x	x	8	16	x	x
Audio	Input	x	1	x	2	2	2	8	16	x	x
	Output	x	1	x	1	1	1	1	1	x	x
Alarm	Input	x	8	x	4	4	2	8	8	x	x
	Output	x	4	x	1	1	1	3	3	x	x
Storage	SATA Ports (4TB Per Port)	1	2	1	1	1	1	4	4	1	1
Interfaces	10/100Mbps Adaptive Ethernet Interface	1	x	1	1	1	1	x	x	1	1
	Gigabit Ethernet Interfaces	x	2	x	x	x	x	2	2	x	x
	USB Ports	2	4	2	2	2	2	4	4	2	2
	RS-485	x	1	x	1	1	1	1	1	x	x

IP CAMERAS

	SATATYA CIBR13FL40CW	SATATYA CIDR13FL40CW
Type of Camera	IR Bullet	IR Dome
Resolution	1.3MP	
Image Sensor	1/3" DIS	
Lens Size	4mm	
No. of LEDs in IR Camera	30	
IR Camera Range	20-30m	
Dual Stream	Yes	
Network Storage	NAS	
Interoperability	ONVIF, CGI, PSIA	
Digital Noise Reduction	3D DNR	
Wide Dynamic Range	Digital WDR	
Certifications	CE, FCC, RoHS and IP66	CE, FCC, RoHS, IP66 and IK10

ANALOG CAMERAS

	SATATYA CADRP700 VL90SW	SATATYA CABR600 FL36SG	SATATYA CABR600 FL60SG	SATATYA CABR600 VL12SG	SATATYA CABR700 FL16CW	SATATYA CABR700 FL36CW	SATATYA CABR700 VL12CW	SATATYA CADR600 FL36SB	SATATYA CADR600 FL36CB	SATATYA CADR700 FL36CW	SATATYA CABX600 RLSS	SATATYA CAD600 FL36SB	SATATYA CAD600 FL36CB
Type of Camera	PTZ	IR Bullet						IR Dome			Box	Dome	
TVL	700	600			700			600		700	600	600	
Image Sensor	Sony Super HAD CCD II	Sony Super HAD CCD II	Sony Super HAD CCD II	Sony Super HAD CCD II	DIS	DIS	DIS	Sony Super HAD CCD II	DIS	DIS	Sony Super HAD CCD II	Sony Super HAD CCD II	DIS
Lens Size	3 to 90mm	3.6mm	6 mm	2.8 to 12mm	16mm	3.6mm	2.8 to 12mm	3.6mm			x	3.6mm	
No. of LEDs in IR Camera	12	23	23	35	x	12	x	23	23	12	x	x	
IR Camera Range	120-150m	15m	15m	50m	80m	20m	30-40m	15m	15m	20m	x	x	
Certifications	CE, FCC, RoHS and IP66	CE, FCC, RoHS and IP66						CE, FCC and RoHS			CE, FCC and RoHS	CE, FCC and RoHS	

MATRIX NETWORK
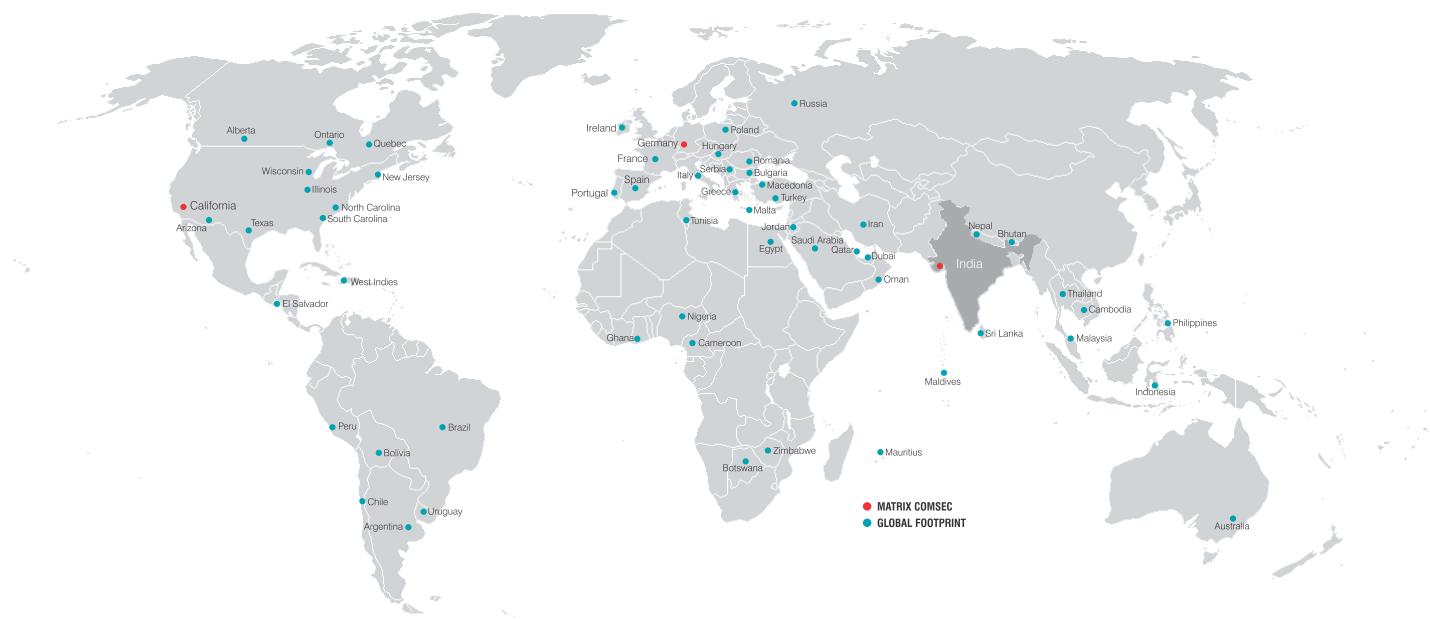
ABOUT MATRIX

Established in 1991, Matrix is a leader in Telecom and Security solutions for modern businesses and enterprises. An innovative, technology driven and customer focused organization; Matrix is committed to keep pace with the revolutions in the telecom and security industries. With around 30% of its human resources dedicated to the development of new products, Matrix has launched cutting-edge products like IP-PBX, Universal Gateways, VoIP Gateways and Terminals, GSM Gateways, Access Control and Time-Attendance Systems, Video Surveillance System and Fire Alarm Systems. These solutions are feature-rich, reliable and conform to the international standards. Having global foot-prints in Asia, Europe, North America, South America and Africa through an extensive network of more than 500 channel partners, 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 international awards for its innovative products.

MATRIX
SECURITY SOLUTIONS

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