

SAS TECHNOLOGIES



PRODUCT CATALOGUE

2025



Welcome to our Product Catalogue

About Us

SAS Technologies is a leading turnkey solution provider for integrated electronic security systems, specializing in large-scale infrastructure and institutional projects.

We design, deploy, and maintain advanced security and surveillance systems across critical sectors including government buildings, smart cities, industrial parks, public institutions, and commercial hubs.

Our in-house team of certified engineers, project managers, and security consultants work closely with clients to offer tailored solutions that combine reliability, compliance, and cost-efficiency. We bring together top-tier brands, structured execution methodology, and future-ready technology to deliver unmatched performance and protection.



Our Vision

To be India's most trusted partner in smart security infrastructure and surveillance integration.

Our Mission

- To design and implement intelligent security solutions for institutions and infrastructure
- To align with national safety standards and tender compliances
- To deliver long-term reliability with minimal maintenance needs

Our Core Strengths

- In-house expertise in EPC model execution (Engineering, Procurement, Construction).
- Real-time system integration with BMS, SCADA, and centralized monitoring.
- Strong logistics chain with priority access to OEM hardware.
- Pre-approved vendor for many government departments and Smart City bodies.

Our Turnkey Services

SAS Technologies offers comprehensive project lifecycle support with end-to-end services:

- Feasibility Study & Risk Mapping
- Detailed Engineering Design (DEED)
- Site Layout & Coverage Planning using CAD tools
- Item-wise BOQ Preparation & Specification Matching
- Procurement of Approved Makes (AMC-approved brands)
- Skilled On-site Installation with Electrical/Civil Coordination
- Testing, Validation, and Final Commissioning Reports
- Training of Security Staff and Admin Teams
- Post-Handover AMC & Online/Offline Helpdesk Setup



CCTV Surveillance Systems

Our surveillance solutions are engineered to enhance urban safety, support institutional monitoring, and secure perimeters against unauthorized access.

Technologies Supported:

- **Ultra-HD Analog (HDTVI) & IP Cameras:** 2 MP – 12 MP resolution.
- **Form Factors:** Dome, Bullet, PTZ, Thermal-imaging and Fisheye cameras
- **Advanced Analytics:** Line-crossing detection, face recognition, object left/removed alerts and motion sensing
- **Command Center Integration:** Centralized dashboard with real-time alert triggers

Implementation Methodology:

- **Site Survey:** Thorough assessment to determine optimal camera locations and overall coverage requirements
- **Optical Design:** Selection of lens focal lengths and mounting positions to eliminate blind spots
- **Infrastructure & Mounting:** Conduit routing, pole foundations and weatherproof enclosures for outdoor resilience
- **Recording & Storage Configuration:** NVR setup with backup redundancy to ensure uninterrupted data retention
- **Secure Streaming:** Encrypted web and mobile access for live viewing, playback and event notifications



ANPR (Automatic Number-Plate Recognition) Cameras

Our ANPR solutions automate vehicle identification and tracking by capturing license-plate images and converting them into actionable data.

Technologies Supported:

- High-Resolution Sensors: 2 MP–12 MP CMOS/CCD for sharp plate capture at speed
- Infrared Illumination: Invisible IR LEDs for 24×7, low-light and night-time operation
- On-Board LPR Engine: Real-time OCR processing at the edge, with multi-lane support
- Wide Dynamic Range (WDR): Ensures clear plate reads under harsh backlighting
- PoE / PoE+ Support: Single-cable power, data and illumination

Execution Includes:

- High-Speed Capture: Accurate reads of vehicles moving up to 200 km/h
- Multi-Lane Coverage: Single units can monitor 2–4 lanes with adjustable FOV
- Event-Driven Alerts: Instant notifications on whitelist/blacklist plate matches
- Database Integration: Seamless connectivity to parking, access-control and law-enforcement systems
- Analytics Dashboard: Live monitoring, historical queries, heatmaps and reporting



ANPR (Automatic Number-Plate Recognition) Cameras

Implementation Workflow:

- **Site Assessment & Placement:** Determine optimal mounting height and angles for clear plate visibility
- **Housing & Mounting:** Weatherproof, vandal-resistant enclosures with heated window options.
- **Camera Configuration:** Focus, IR power tuning and WDR calibration for day/night consistency.
- **OCR Engine Setup:** Integration with local blacklist/whitelist databases and third-party APIs.
- **Network & Server Integration:** PoE switch setup, VLAN segregation and secure data streams to ANPR server.
- **Testing & Fine-Tuning:** Validation across speed, lighting and weather conditions; adjust recognition thresholds



Biometric & Access Control Solutions

Our biometric platforms enforce secure, convenient entry for any facility—combining physiological identification with smart credentials to safeguard people and assets.

Technologies Supported:

- **Biometric Readers:** Fingerprint (optical & capacitive), facial recognition (2D/3D), iris and palm scanners.
- **Card & Mobile Credentials:** MIFARE/DESFire smart-cards, Bluetooth/NFC smartphone badges.
- **Door Controllers:** Multi-door panels supporting 1-32 readers, RS-485 and IP connectivity.
- **Software Suite:** Real-time access management, role-based policies, audit trails and reporting.
- **Time-Attendance Module:** Automated shift scheduling, overtime calculations and payroll exports

Key Features:

- **Anti-Spoof & Liveness Detection:** Prevents forged fingerprints, masks or printed images
- **1:1 & 1:N Matching:** Fast verification at turnstiles (≤ 0.5 s) and scalable identification across thousands of templates
- **Offline Operation:** Local cache ensures doors function during network outages, with automatic sync on reconnection
- **Encrypted Communications:** AES-256 encryption between readers, controllers and server
- **Multi-Modal Flexibility:** Combine two or more biometric traits for extra-high security zones



Biometric & Access Control Solutions

Implementation Workflow:

- **Requirement Analysis:** Define zones (high-security vs general access), throughput and integration points (e.g., HR, visitor management).
- **Hardware Selection & Site Survey:** Choose reader types and mounting heights; map door frame dimensions and wiring paths.
- **Cabling & Power:** Structured cabling (CAT 6/6A), PoE or 12 VDC supply, tamper switches and exit-button wiring.
- **Controller & Server Configuration:** Install door controllers, configure IP or RS-485 networks, deploy access-management software.
- **User Enrollment & Template Management:** Capture and quality-check biometric templates; assign access rights and schedules.
- **Testing, Training & Go-Live:** Validate read rates, spoof-test readers, train security staff and end users; hand over documentation



Intrusion Alarm & Burglar Systems

Protect your facility's interior and perimeter with intelligent intrusion detection and rapid-response alarms.

Technologies Supported:

- **Multi-Zone Control Panels:** Expandable wired or wireless architecture for 8–128 zones
- **Sensors & Detectors:**
 - Door/window contacts, PIR motion, glass-break, vibration and shock sensors
 - Smoke, heat and CO detectors for life-safety integration
- **Panic & Duress Inputs:** Remote key-fobs, wall-mounted panic buttons and mobile-app triggers
- **Siren & Strobe Outputs:** Indoor/outdoor sirens, strobe lights and voice-evac modules
- **Communication Paths:** Dual-path reporting via IP/Ethernet, GSM/GPRS and PSTN fallback

Key Features:

- **Adaptive Sensitivity & Pet Immunity:** Reduces false alarms from pets or environmental noise
- **Zone-Based Response:** Tailor alarm actions per zone—silent duress, local siren, remote notification
- **Tamper & Supervision:** Anti-tamper switch on panels/devices; periodic health check and battery status



Intrusion Alarm & Burglar Systems

- **Instant Notifications:** SMS, push-alerts and e-mail on alarm events or device faults.
- **24x7 Monitoring Integration:** Seamless link to professional monitoring centers or on-premises security ops.

Implementation Workflow:

- **Site Survey & Zone Mapping:** Define high-risk and low-risk areas; assign appropriate sensor types per zone.
- **Cabling & Device Placement:** Route conduits or install wireless modules; mount sensors at optimal heights and angles.
- **Panel Configuration:** Program zone definitions, alarm schedules, entry/exit delays and user codes.
- **Communication Setup:** Configure dual-path reporting (IP + cellular), backup power and supervision intervals.
- **Testing & Commissioning:** Simulate alarms on each zone; verify notification delivery and siren/strobe activation; train end users.



Metal Detection Systems

Efficient screening at entry points to detect concealed metallic threats without impeding traffic flow.

Technologies Supported:

- **Walk-Through Archway Detectors:** Multi-zone sensors to pinpoint metal location.
- **Handheld Wands:** Portable screening for secondary inspection
- **Conveyor-Belt & Portal Combos:** Item scanning integrated with X-ray or metal detection
- **Under-Door & Wall-Mounted Scanners:** Discreet screening in space-constrained areas

Key Features:

- **Multi-Zone Discrimination:** Highlights exact belt or body region containing metal.
- **Adjustable Sensitivity Levels:** Calibrate threat thresholds (e.g., small knives vs larger objects).
- **Traffic-Flow Mode:** Minimizes false alarms during high-throughput periods.
- **Real-Time Alerts:** Audible beeps, LED indicators and network-triggered notifications.
- **Standards Compliance:** CE/FCC/IEC safety certifications for electromagnetic emissions.
- **Remote Health Diagnostics:** Encrypted status reports and self-test scheduling



Metal Detection Systems

Implementation Workflow:

- **Site Survey & Planning:** Determine optimal archway placement, screening lanes and throughput targets.
- **Installation & Power/Data Setup:** Mount detectors, route power or PoE cabling and any required network connections.
- **Calibration & Sensitivity Tuning:** Configure multi-zone thresholds, traffic-flow timing and alarm profiles.
- **Access & Barrier Integration:** Link detector outputs to turnstiles, gates or door controllers for automated locking.
- **Testing, Training & Handover:** Validate detection accuracy across all zones, train security staff and schedule maintenance.

Monitors



High-performance screens and video-wall solutions for real-time surveillance and command-center operations.

Technologies Supported:

- **Panel Types:** LED-backlit LCD, IPS and OLED displays (22"-98").
- **Resolutions:** Full HD (1080p), 4K UHD and 8K.
- **Video-Wall Modules:** Ultra-thin, bezel-less panels with video-wall controllers.
- **Industrial Variants:** IP65-rated front, anti-glare coatings, sunlight-readable options.
- **Connectivity:** HDMI, DisplayPort, DVI, HD-SDI and TCP/IP inputs.
- **Touch & Interactive Models:** Capacitive/resistive touch overlays, multi-touch support.

Key Features:

- **Seamless Video-Wall:** ≤3.5 mm bezels for uninterrupted multi-screen arrays.
- **Wide Viewing Angles:** 178°/178° ensures clarity from any position
- High Brightness & Contrast: ≥500 cd/m² and dynamic local dimming for crisp detail.
- **Low Latency & High Refresh:** <5 ms response, 60–120 Hz refresh for smooth motion.
- **Multi-Screen Layouts:** Picture-in-picture, split-screen and mosaic modes via onboard scaler.

Monitors



- **Remote Management:** SNMP and RS-232 control, real-time health monitoring and firmware updates.
- **Secure Operation:** Encrypted boot, tamper-resistant enclosures for critical environments.

Interactive Display Panels



Engage teams with collaborative touchscreens that combine presentation, annotation and wireless-casting in one sleek unit.

Technologies Supported:

- **Touch Panel Sizes:** 55"-86" LED-backlit LCD with 10–20-point capacitive multi-touch.
- **Integrated Compute Modules:** Optional OPS-slot Windows PCs or Android SoCs.
- **Connectivity:** HDMI, DisplayPort, USB-C, USB-A, RJ45, Wi-Fi 6 & Bluetooth 5.0.
- **Peripherals:** Active-pen support (2 mm tip), embedded cameras, microphones and speakers.

Key Features:

- **Collaboration Software:** Built-in whiteboarding, split-screen & real-time remote annotation.
- **Wireless Casting:** Dual-screen mirroring for up to 4 devices (iOS, Android, Windows, macOS).
- **Interactive Tools:** Digital ink with palm rejection, screen capture and cloud export.
- **Integrated AV:** Stereo sound, 4K camera for video conferencing and echo-cancelling mic arrays.
- **Security & Management:** TPM 2.0, secure boot, MDM compatibility and remote firmware updates.

Interactive Display Panels



Implementation Workflow:

- **Site Assessment & Mounting Plan:** Choose wall-mount vs mobile stand; verify viewing angles and user reach zones.
- **Infrastructure Setup:** Install VESA mounts or trolley; run power, Ethernet and optional HDMI cabling.
- **Compute & Software Deployment:** Insert OPS module (if used), install collaboration suite and set user permissions.
- **Network & Security Configuration:** Join corporate LAN/Wi-Fi, configure MDM policies and secure boot settings.
- **User Onboarding & Handover:** Demo touch features, teach annotation tools and provide quick-start guides.

Baggage Scanning Systems

High-throughput X-ray and CT-based scanners for secure baggage screening at airports, transit hubs and critical facilities.

Technologies Supported:

- **X-Ray Transmission:** Single-, dual- and multi-energy imaging for material discrimination.
- **Computed Tomography (CT):** 3D reconstruction to detect concealed threats in complex bags.
- **Conveyor Integration:** Roller-bed or belt systems handling 20–60 items per minute.
- **Advanced Software:** Automated threat detection (explosives, weapons, liquids) with color-coded alerts

Key Features:

- **Material Classification:** Organic vs. inorganic vs. metallic item identification.
- **High Resolution & Zoom:** ≥40 AWG wire-mesh sensitivity and digital magnification.
- **Real-Time Threat Flagging:** Overlay of suspect regions and automatic alarm triggers.
- **Operator Ergonomics:** Intuitive touch-screen interface, image annotation and reporting.
- **Remote Diagnostics & Self-Calibration:** Ensures consistent performance with minimal downtime



Boom Barrier Systems

Automated vehicle-access barriers ideal for controlled entry/exit points in parking lots, gated communities and secure facilities.

Technologies Supported:

- **Mechanical Drive:** Rack-and-pinion or counter-balanced arm mechanisms.
- **Arm Types:** Straight, articulated (folding/drop-nose) and telescopic booms (up to 10 m).
- **Motors & Drives:** AC- or DC-powered drives with adjustable speed profiles (0.8–3 s cycle).
- **Detection & Safety:**
 - Inductive loop detectors for vehicle presence.
 - Infrared photocells and safety edges for obstacle sensing.
- **Control Interfaces:**
 - Dry-contact I/O for card readers, RFID, ANPR or push-button panels.
 - TCP/IP-enabled controllers for remote management.
- **Enclosures:** IP54-rated, corrosion-resistant cabinets with integrated LED status indicators.

Key Features:



Boom Barrier Systems

- **Safety Auto-Reverse:** Instant arm reversal on obstacle detection to prevent damage.
- **Adjustable Arm Length & Speed:** Tailor deployment to narrow lanes or wide entrances.
- **Manual Override & Backup Power:** Emergency crank-release and UPS support for power outages.
- **Remote Monitoring & Diagnostics:** Real-time status, event logs and health checks via web or mobile apps.

Electronic Door Lock Systems

Smart locking solutions that combine mechanical security with digital access control for doors, gates and cabinets.

Technologies Supported:

- **Lock Types:** Motorized mortise locks, deadbolts, lever handles and magnetic locks.
- **Access Methods:** PIN/keypad, RFID cards/fobs, Bluetooth/NFC via smartphone, biometric (fingerprint) modules.
- **Connectivity:** Wi-Fi, Bluetooth Low Energy, Zigbee/Z-Wave or RS-485 for integration with building-automation.
- **Power & Backup:** PoE/12 VDC mains power with battery backup or rechargeable Li-ion cells.

Key Features:

- **Remote Lock/Unlock:** Control via mobile app or web portal; integrate with intercoms and VDPs.
- **Auto-Lock & Passage Modes:** Scheduled relock intervals; temporary free-exit setting for high-traffic periods.
- **Access Logs & Audit Trail:** Time-stamped records of every entry/exit, downloadable CSV/PDF reports.
- **Tamper & Forced-Entry Alerts:** Built-in accelerometers and door-position sensors trigger instant notifications.
- **Encrypted Communications:** AES-128/256 or TLS-secured commands between lock and controller.

Electronic Door Lock Systems



Implementation Workflow:

- **Site Survey & Lock Selection:** Assess door type, frame depth and traffic patterns; choose appropriate lock mechanism and access reader.
- **Cabling & Power Provisioning:** Run low-voltage wiring (PoE or 12 VDC), battery pack placement and optional conduit for network cabling.
- **Lock Installation:** Fit mortise or surface-mount lock body, install strike plate and align door sensors.
- **Controller & Network Setup:** Pair locks with access controller or hub, configure Wi-Fi/BLE credentials and define user roles.
- **Enrollment & Testing:** Program PINs/cards/biometrics, verify app-based control, test auto-lock timings and alarm triggers.



Video Door Phones

Secure, reliable, and scalable entry-level communication solutions for high-density housing, staff accommodation, and government flats.

System Features:

- Colour video touchscreen units (7" / 10").
- Centralized call routing for high-rise buildings.
- Remote unlocking and call logs via mobile app.
- Custom ring zones for multi-unit complexes.

Implementation Workflow:

- SIP/IP-based cabling layout
- Intercom to guardroom and multi-apartment mapping
- Configuration of server and apartment directories

Networking & Data Infrastructure

We build robust networking environments tailored to security systems – high uptime, fast switching, and noise-proof cabling.

Components Installed:

- Layer 2/3 managed PoE switches (with SNMP, VLAN)
- CAT6A/CAT7 structured cabling
- OFC backbone for long-range IP camera/switch connectivity
- Server rack mounting with cooling and surge protection

Implementation Milestones:

- Link testing and tagging
- MAC address-level switch config
- Firewall and routing policies for secure remote access

AMC & After-Sales Support

Long-term asset lifecycle support ensures uninterrupted system performance.

AMC Plans:

- Comprehensive (All parts/labour included)
- Semi-Comprehensive (Labour + Select spares)
- On-demand (Call-based support)

Support Features:

- Comprehensive (All parts/labour included)
- Semi-Comprehensive (Labour + Select spares)
- On-demand (Call-based support)

Project Execution Workflow

- Initial Site Visit & Requirement Capture
- Proposal Submission with BOQ and Drawing
- Tender/TOR Review & Material Submittals
- Civil work: Trenching, Conduit Laying, Rack Installation
- Device Installation, Network Setup & Electrical Wiring
- Testing – Integration with BMS/Fire/IT networks
- Final User Acceptance Test (UAT), Sign-off, & Handover

Documentation:

- Completion Certificate
- OEM Warranty Cards
- Operation Manuals
- Training Videos (on request)



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