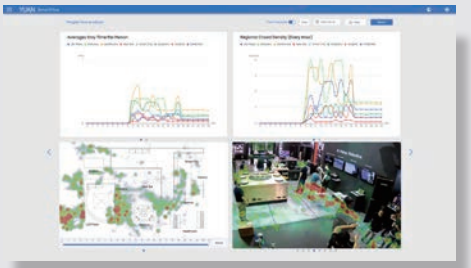
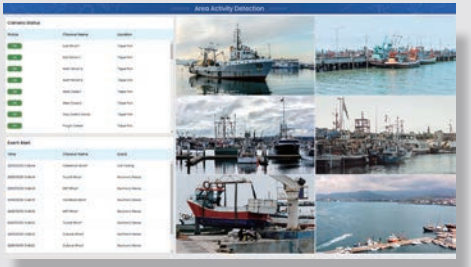
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SmartVDO Solution
Transforming Vision into Intelligent Action

Modular Software Design for AI Video Analytics, Recording, and Management

Powered by YUAN High-Tech

V1.8

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About YUAN

Your Trusted Tech Partner for Reliable VideoAI

At YUAN High-Tech, we believe that every frame in professional video technology carries vital value. True innovation comes not just from breakthroughs, but from reliable quality and attention to every detail.

We don't follow trends—we lead them. By combining video capture, recording, streaming, and AI, we create powerful, original products that move the industry forward. Our goal is not to imitate, but to innovate.

But technology alone is not enough. We believe technology is the foundation, and service brings it to life. We work closely with our customers, solving problems and strengthening their systems. Even the smallest issues matter to us, because in fields like healthcare, broadcasting, and automation stability is everything.

"Technology. Service. Reliability. Trust." This is our promise. We aim to be not just a product provider, but your most trusted partner in professional video solutions.

This is YUAN High-Tech. This is what we stand for.



Technology



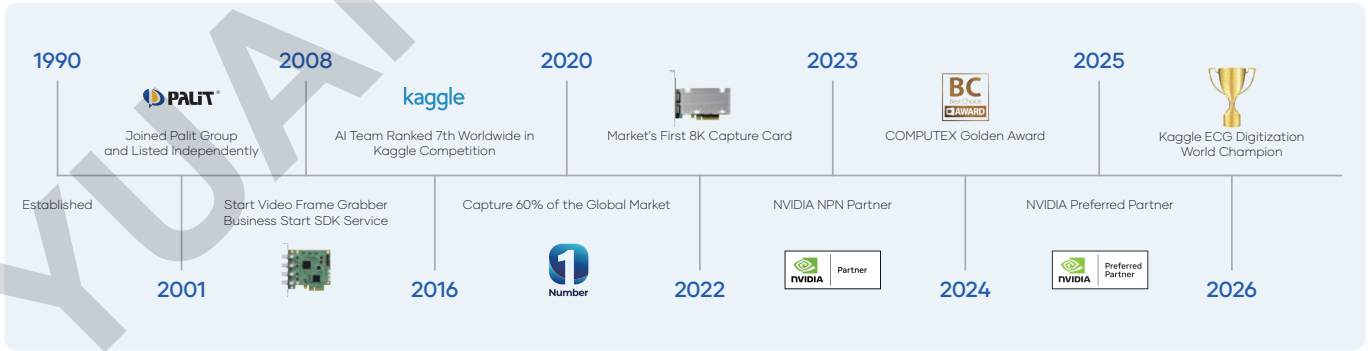
Service



Reliability



Trust



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Intelligent Video Processing Solutions

Support Every Stage of Video AI Application

NVIDIA Preferred Partner

Ready-to-Deploy Hardware & Software Integration

Capture | Platform | VideoAI | Software



SmartVDO ▷NexVDO

Cloud

SmartVMS
Dashboard / Map / Live Monitoring
Edge Management for Applications

Edge

SmartAPPs
Edge Video Applications
Powered by NextVDO SDK

VideoAI Modules
Identity / Scenario / Behavior
AI Plug-Ins

NextVDO SDK
Capture / Record / Stream / Analysis
Core Engine for Video & AI

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Ready-to-Deploy Solutions



SmartNVR

Next-Gen Video Recording with AI Intelligence

SmartNVR combines traditional recording and playback with powerful Edge AI analytics.
It identifies human and vehicle behaviors, detects anomalies like fights or fire, and enables deep search over recorded data by individual or scene features — unlocking a smarter surveillance experience.



SmartVMS

Unified Control over Multi-Edge Systems

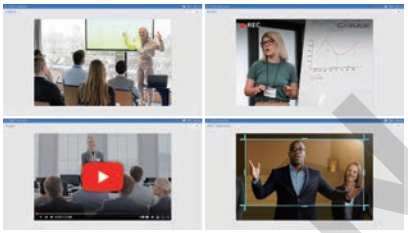
SmartVMS offers centralized monitoring, intelligent dashboard analytics, and seamless integration of external data like weather and maps.
Deployable on local servers or cloud platforms (AWS / GCP), SmartVMS empowers large-scale smart city, campus, and industrial applications.



SmartFlow

AI-Powered People Analytics at the Edge

SmartFlow delivers real-time insights into foot traffic, visitor dwell time, and behavior analytics across retail, exhibitions, and commercial spaces.
With the power of NVIDIA Orin NX and LLM integration, SmartFlow can generate automated daily reports to uncover visitor trends and conversion efficiency — all at the edge.



SmartXON

Bidirectional Streaming with Real-Time AI Fusion

SmartXON supports RTSP, RTMP, SRT, NDI, Dante, and more, powered by Jetson 4K60 H.26X encoding/decoding.
Integrated with NextVDO SDK, it enables seamless fusion of low-latency streaming and AI inference on the edge.



SmartHealth

Digital Operating Room Video Solution

SmartHealth is a professional 4K video matrix system designed for modern surgical environments. It delivers seamless video routing, high-quality surgical recording, and live streaming capabilities for surgical training and remote consultation—empowering digital transformation in operating rooms worldwide.

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Application Scenarios

SmartNVR

4. Factory Fence
5. Parking Lot
6. Public Security
7. Unsafe Behavior
8. Traffic Accident

SmartVMS

9. MRT
10. Airport
11. Police Station

SmartFlow

1. Retail Store
2. Shopping Mall
3. Stadium

SmartXON

12. Remote Mining
13. TV Station
14. Drone

SmartHealth

15. Hospital
16. Care Center



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Why YUAN

End-to-End Embedded Video AI Expertise

Hardware Design

FPGA I/O Design

Mainboard / Mechanical / Thermal

QA & Certification

Firmware / Driver / BSP

ProAV SDK

Video AI SDK

Edge & Cloud Integration

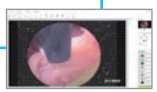
Case Studies

kaggle
Medical AI Championship

Data Collection
&
Model Consulting



Data Labeling
4 ~ 8 weeks



Data Training
2 ~ 4 weeks



Inference Testing
1 ~ 2 weeks

Platform Optimization
&
Migration
2 ~ 3 weeks

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SmartNVR

Next-Gen Video Recording with AI Intelligence

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SmartNVR Solution

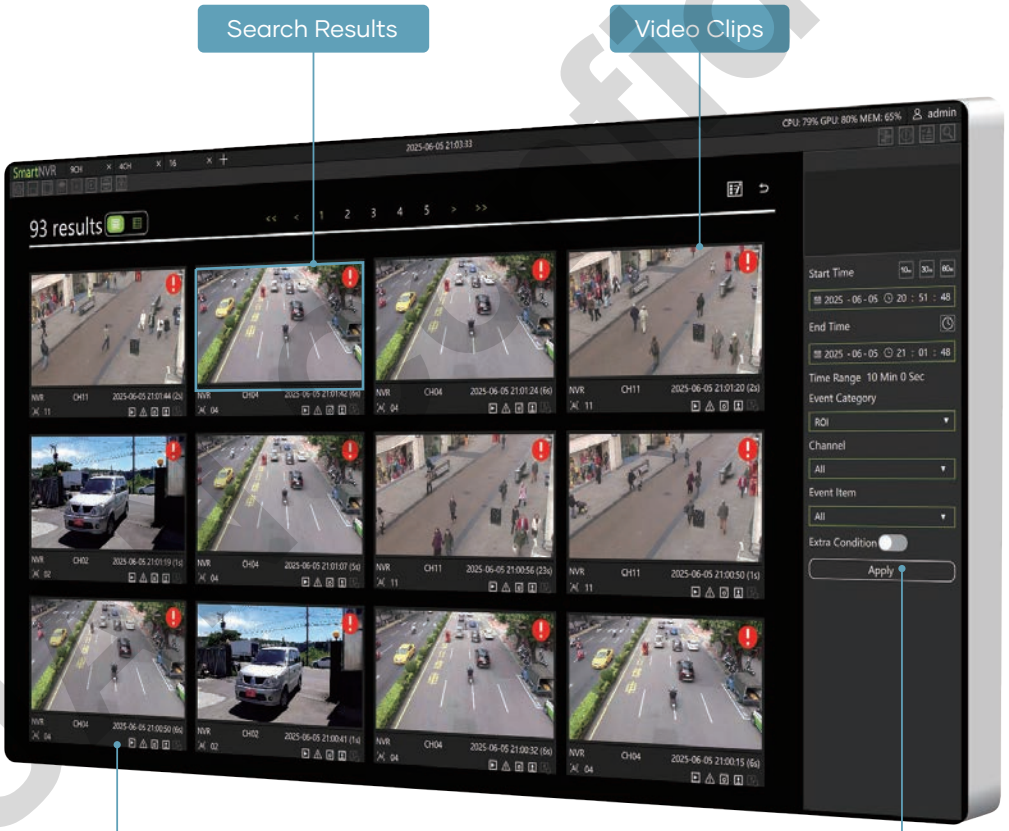
SmartNVR is an intelligent and scalable video surveillance solution that combines high-resolution recording, real-time analytics, and remote access via web and mobile. It features flexible multi-channel viewing, event-triggered alerts, and detailed system logs for monitoring and response. Built for adaptability, it supports camera expansion, customizable storage, and role-based access control—ensuring secure, organized operation across all user levels.



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SmartNVR Solution

It analyzes IP camera feeds to detect faces, license plates, object movement paths, and abnormal events such as falls, fights, or fires. When critical events occur, alerts are instantly triggered via email, messaging apps, or connected I/O devices like LEDs and alarms. All events are logged with options to replay, snapshot, or export clips—making it easy to review and respond.



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SmartNVR - Basic Functions

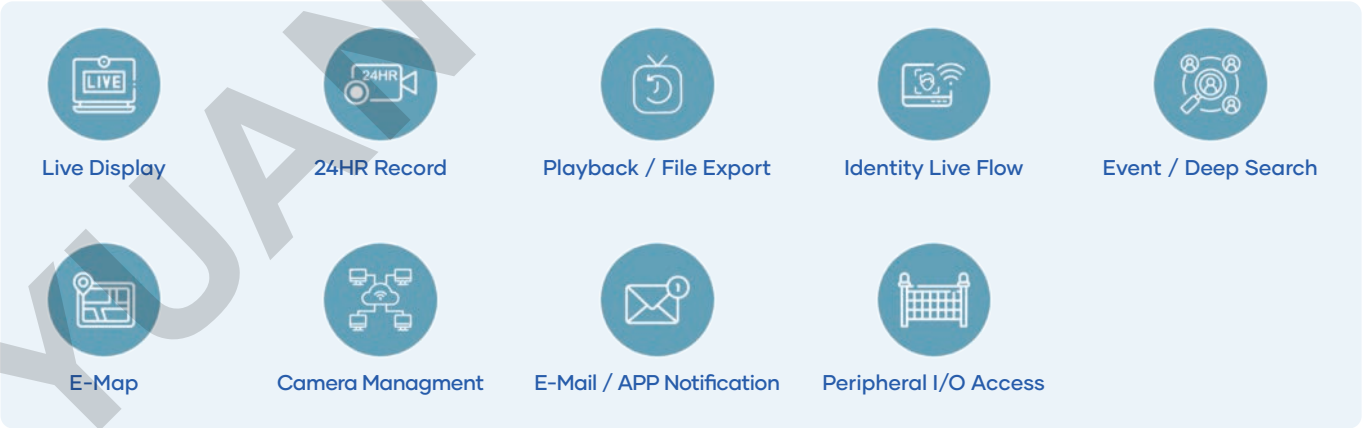
AI-Powered Event Detection (Pre-insight) and Deep Search (Post-insight)

SmartNVR delivers an all-in-one platform — from real-time monitoring and reliable recording to smooth playback and easily exported video files, all through an intuitive and user-friendly interface. It supports dynamic multi-channel layouts with automated rotation, region overlays featuring AI detection results and ROI zones, PTZ control, and digital zoom for focused surveillance.

It's equipped with recording options including 24/7, scheduled, and event-triggered modes, supporting auto-overwrite and external or NAS storage. Playback offers synchronized multi-channel viewing, timeline control, variable playback speed, and flexible export by custom time ranges.

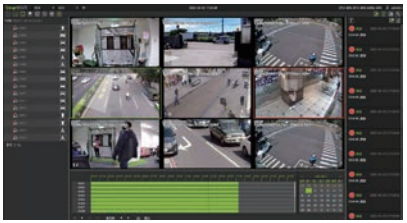
For real-time alarms, SmartNVR detects people, vehicles, faces, and scene content—instantly triggering Identity, Scenario, and Behavior events. These can activate connected peripheral devices and send alerts via email or mobile apps for rapid response.

For post-insight review, advanced Deep Search analyzes recorded footage using object attributes, natural language queries, and cross-camera matching—helping users uncover incidents that were missed during live monitoring. No need to scrub through hours of video—just describe what you're looking for and jump straight to the key moments.



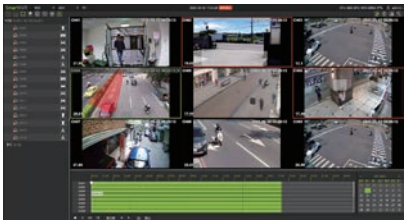
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SmartNVR - Basic Functions



Live Display

- Multi-Layout Design
- Multi-Layer Display for Objects & ROI
- Digital Zoom In / Out
- PTZ Camera Control



Record

- 24hr Full and Schedule Recording
- Pre / Post-Event Recording for Disk Saving
- Auto Disk Recycling



Playback / File Export

- Multi-Channel Synchronized Playback
- Video Clip Export (MP4)



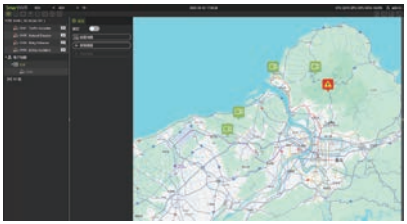
Identity Live Flow

- Real-Time Face-ID / License-Plate Recognition
- Flow Panel of Feature Information
- Quick Allow/Block List Access (Add / Remove / Modify)



Event / Deep Search

- Time / Channel-based Event Search
- Video Clip Preview
- Attribute-based Visual Search
- Scene Understanding by VLM



E-Map

- Map Area Management
- View by Location Filter



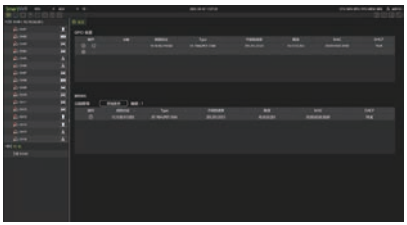
Camera Management

- IP & ONVIF Camera Emulation
- Stream Preview
- Bit Rate / Frame Rate Control
- Alias Name and Group Management



E-Mail / APP Notification

- Line Message
- Discord
- Telegram
- HTTP Notification



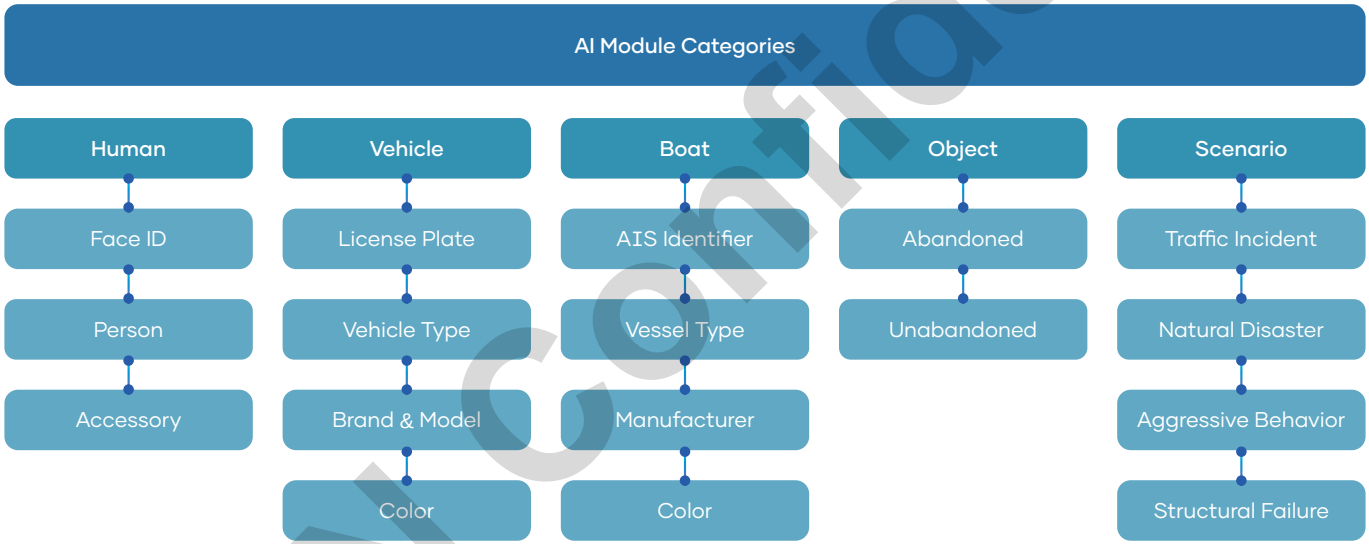
Peripheral I/O Access

- GPIO Access
- LED Indicator Lights
- Gate/Barrier Control

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SmartNVR - Ready to Deploy Model

SmartNVR offers a series of ready-to-use AI modules that work together, reduce model training time and simplify deployment. Covering five key categories—Human, Vehicle, Boat, Object, and Scenario—they enable real-time alerts and post-event investigation across complex environments.



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SmartNVR - Smart Event (Pre-Insight)

SmartNVR applies three AI event types : Identity, Scenario, and Behavior—to enable smart and flexible monitoring.
Users can define event rules for identity recognition, scene interpretation, and object behavior tracking, with real-time alerts instantly triggered to control centers, emails, or messaging apps when events occur.

Identity Events

Supports rapid object feature recognition, including face identification, license plate recognition, and analysis of object attributes such as clothing, accessories, vehicle color, type, and brand. Enables fast and accurate database matching for access control, incident tracking, and investigation.

Scenario Events

Understand and identify critical incidents from video scenes such as traffic jams, car accidents, fires, floods, landslides, fights, and structural collapses, and trigger instant alerts to enable rapid response and enhance public safety.

Behavior Events

Track object movement paths precisely, including line crossing, area entry and exit, loitering, and reverse direction. Also offers accurate counts for line crossings and zone activities to optimize crowd and traffic management.

Smart Events provides accurate detection and real-time analysis to deliver clear and useful information, helping you keep environments safe , respond quickly to any situation, and manage risk more effectively.

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SmartNVR - Smart Event (Pre-Insight)

Identity Events



Face Identified
- Access Control Monitor
- Stranger Path Tracker
- VIP In-Store Greeting
- Bank Identity Verification



License Plate Identified
- Parking Entry Recognition
- Illegal Driving on the Shoulder



Object Attribute Identified
- Employee Safety Compliance Check
- Restricted Item Carry Detection



Object Attribute Identified
- Suspicious Vehicle Tracking
- Emergency Vehicle Priority Passage
- Illegal Parking Occupancy Alert

Scenario Events



Vehicle Incident Detected
- Traffic Jam
- Car Crash



Natural Disaster Detected
- Landslide Detection
- Fire Detection
- Flood Detection



Aggressive Behavior Detected
- Fight Detection
- Carrying Dangerous Items

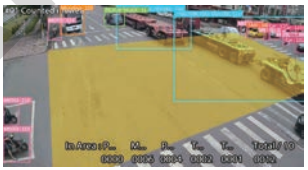


Building Collapse Detected
- Scaffolding Fall
- House Collapse

Behavior Events



Object Counted Crossing Line
- Object Entry / Exit Monitoring
- Occupancy Count



Object Counted in Area
- Crowd / Vehicle Density Detection
- Region Object Count
- Crowd / Vehicle Count



Object Crossed Line
- Illegal U-Turn
- Crossing Lane / Crossing Double Gold White Stripes
- Red Light Violation



Object Detected in Area
- Jaywalking
- Vehicle Failed To Yield To Pedestrian
- Pedestrian Crossing Violation

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SmartNVR - Smart Event (Pre-Insight)

Behavior Events



Object Appeared in Area

· Restricted Zone Detection
· Illegal Roadside Parking



Object Disappeared from Area

· Detection Of Parking Spots
· Clear Intersection



Object Loitering in Area

· Suspicious Person Loitering
· Temporary Parking
· Objects Must not Block the Road



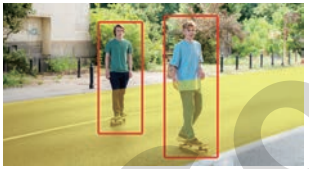
Object Entered in Area

· Motorcycles Prohibited
· Unauthorized Bus Lane Entry
· No-Parking Zone Violation



Object Left in Area

· Detect Departure of Vehicles or People
· Vehicle Access Control
· Parking Spot Overstay Detection



Object Stopped in Area

· Restricted Zone Detection
· Red Line No Parking
· Smart Parking Space



Object Direction Violated

· Driving In The Opposite Direction
· Improper Turn
· One-Way Violation

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SmartNVR - Smart Search

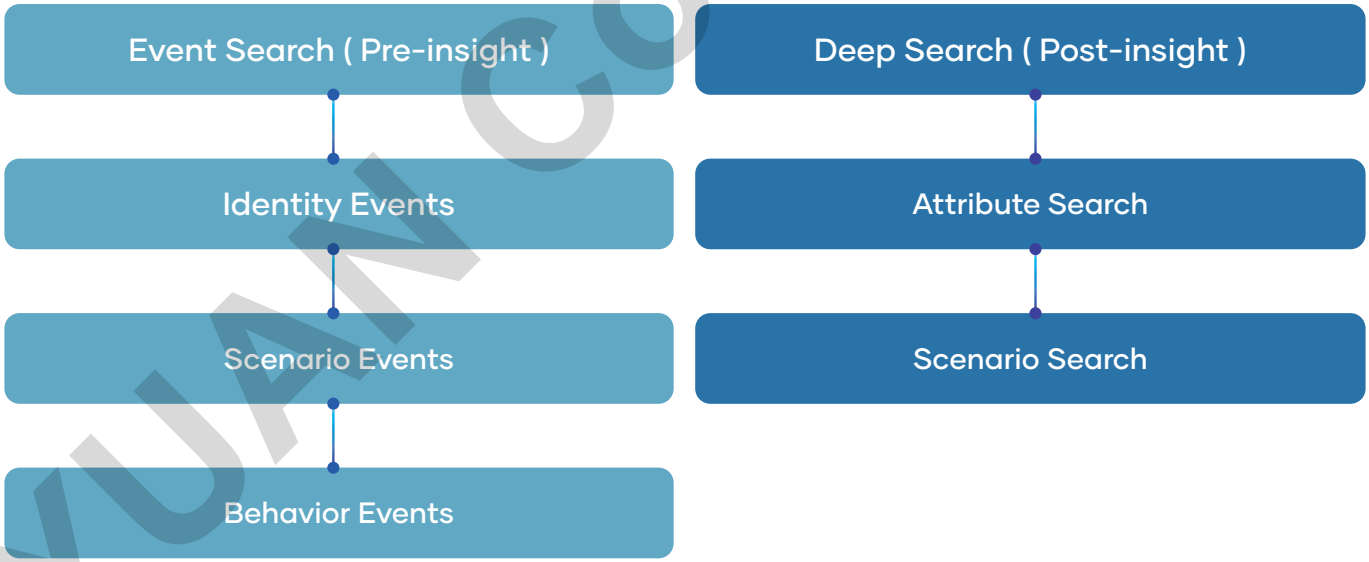
Smart Search combines Event Search for pre-insight detection and Deep Search for post-insight investigation, helping users quickly locate key video—whether in real time or during follow-up analysis.

Event Search

Allow users to filter recorded footage based on previously detected Identity, Scenario, or Behavior events. Instead of manually reviewing video, users can quickly retrieve moments when predefined event types occurred—such as a person crossing a line or a detected fire.

Deep Search

Offer two ways to investigate recorded footage without retraining models. Attribute Search filters by visual features like color, type, and accessories, Scenario Search allows users to type natural language queries that a vision-language model (VLM) uses to find relevant scenes—saving manual search time.



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SmartNVR - Deep Search (Attribute)

Precise Filtering by Object Appearance

Attribute Search detects and tags visual object features—such as color, type, or accessories—enabling fast, targeted searches without complex setup or retraining. Conditions like “red sedan” or “blue truck” can be easily combined and refined, with no need for reprocessing.

Use Cases

- **Construction Sites :** Locate workers by helmet or vest color.
- **Retail Security :** Identify individuals carrying suspicious items.
- **Lost Child Search :** Locate missing children based on clothing in crowded areas.
- **Public Safety :** Track people with unique clothing or gear during events.
- **Traffic Surveillance :** Filter taxis or vehicles by specific colors.
- **Parking Lots :** Filter vehicles by brand or electric status.



Attribute Search **Live / Record**

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SmartNVR - Deep Search (Scenario)

Semantic Scene Retrieval via Natural Language

Scenario Search uses a Vision-Language Model (VLM) to understand what's happening in the video. Simply type a natural language sentence—such as "there is a fight happening," "a fire has broken out," or "an accident occurred at the construction site", and the system quickly scans hours of footage to find the most relevant moments. It requires no labels, no retraining, and no bounding boxes. Fast, easy, and flexible, you can search for people, objects, or events by describing them in plain language, helping you get answers quickly and focus on what really matters.

Use Cases

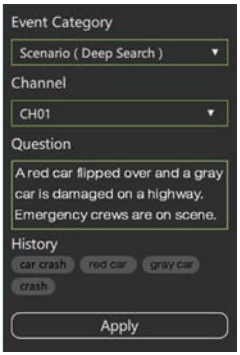
- **Construction Sites :** Detect accidents such as scaffolding falls or equipment collisions.
- **Factories :** Identify fire outbreaks, smoke, or explosions.
- **Hospitals :** Search for patient falling down or experiencing medical emergencies.
- **Streets :** Look for traffic accidents, pedestrians being hit on the road.
- **Schools :** Find student fights, group gatherings, or dangerous play behaviors.



Attribute Search



Live / Record



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SmartNVR - API Integration

SmartNVR supports both HTTP RESTful APIs and WebSocket APIs. WebSocket APIs that allow developers to receive real-time notifications directly from devices. This proactive communication method eliminates the need for constant polling, significantly reduces system load, and improves event response efficiency. Notably, the WebSocket API shares the same data format as the RESTful API, ensuring consistency and ease of integration.

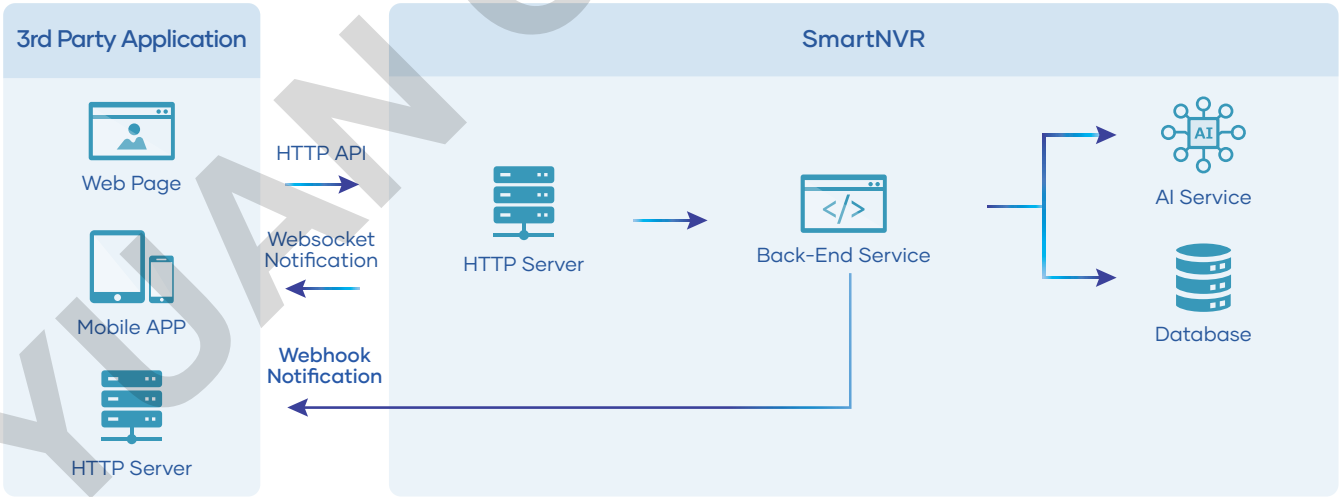
SmartNVR API Functional Modules

SmartNVR offers a full-featured API suite that enables flexible integration and scalability across functions such as channel setup, camera control, event handling, system settings, notifications, reporting, and list management.

AI Plug-In Integration Capabilities

SmartNVR empowers developers to seamlessly integrate custom-trained AI models through its AI Plug-In architecture-without the need for system recompilation or invasive modifications. This flexible mechanism enables clients to deploy proprietary AI algorithms (e.g., facial recognition, helmet detection, behavior anomaly analysis) directly into the platform.

The plug-in system enhances deployment agility, boosts detection accuracy, and ensures on-premises processing, protecting data privacy. It also supports hot-swapping and version updates, allowing model replacement or expansion without interrupting system operations.



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SmartVMS

Unified Control over Multi-Edge Systems

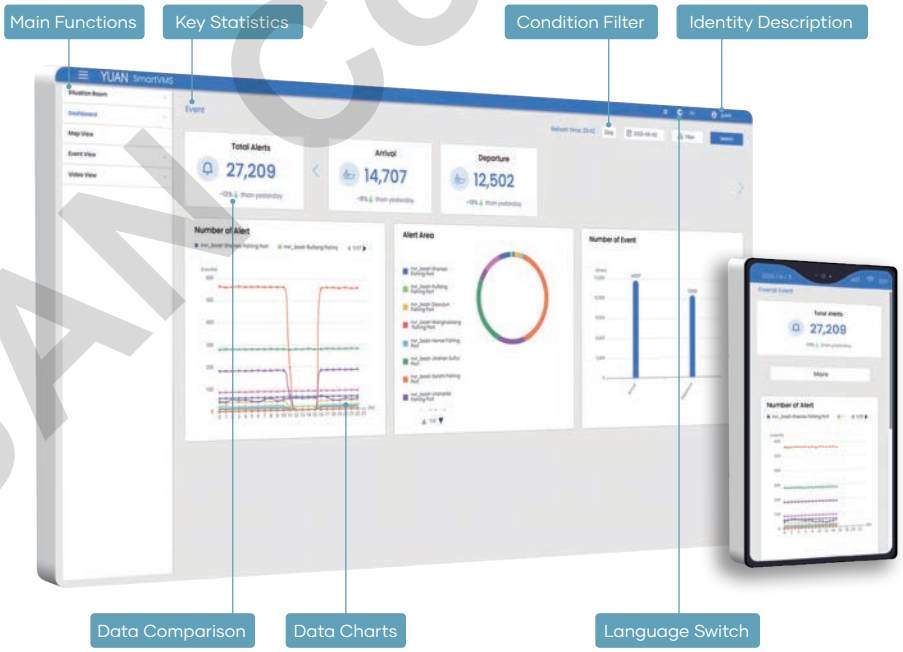
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SmartVMS Solution

SmartVMS is a Linux-based cloud video management system designed for managing multiple SmartNVR. It offers a wide range of features including AI event statistics, war room-style dashboard visualizations, real-time video display, map integration, and report export capabilities. The system also supports AI-triggered notifications via email, LINE, Discord, Telegram, and other channels.

By integrating the YUAN QCAP video processing system, SmartVMS provides powerful video streaming and transcoding capabilities. With its advanced web-based player, users can view low-latency live footage directly from a browser—no additional software installation required. The system also supports responsive layouts for mobile phones and tablets, allowing synchronized viewing of live video, dashboards, and data charts.

Thanks to its lightweight design, SmartVMS can run on mid- to low-tier computing hardware, making it highly adaptable to different deployment needs. Based on a master-slave architecture, it can be deployed over public networks to support remote access. Its modular framework allows for customized war room features tailored to the specific operational requirements of each site—enabling field managers to monitor conditions and take immediate action with ease.

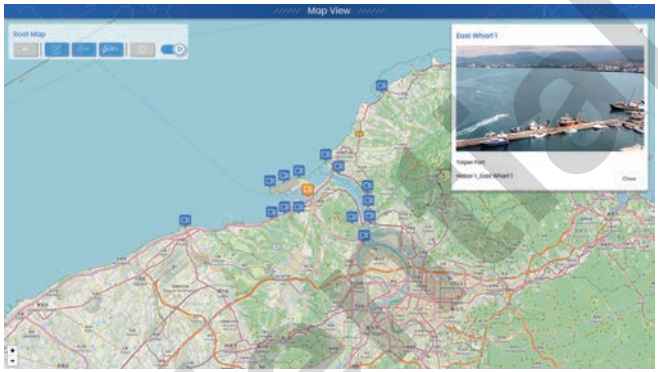


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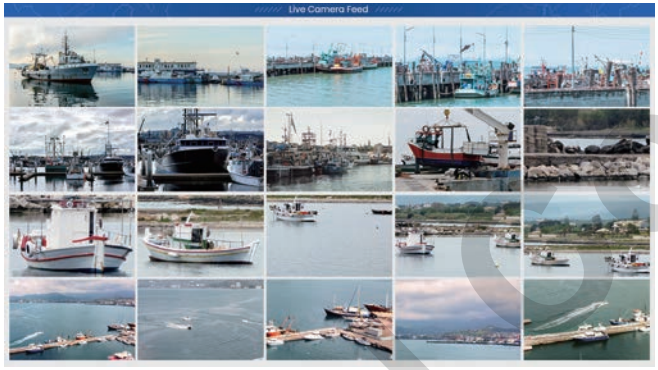
Dashboard

Provides statistics and sorting for event and object classifications, with integrated alert processing for efficient alarm operations.



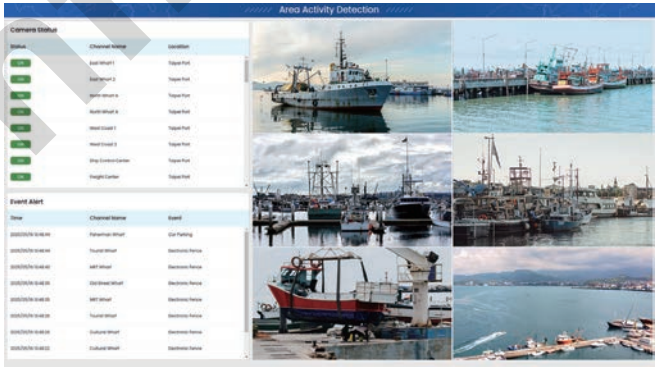
Device Map View

Enables intuitive area management with drag-and-drop functionality and location-based device filtering.



Live Video

Supports real-time video preview and cross-domain streaming with flexible communication settings for seamless monitoring.



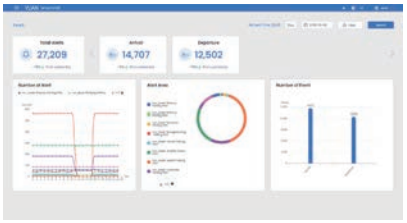
Area Activity Detection

Monitors camera status, detects activity events, and provides live video for instant situational awareness.

Device Management | Event Log | Data Visualization | Device Map | Export Reports | Real-time Notifications

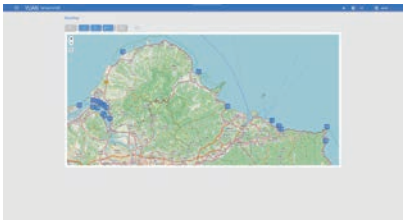
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SmartVMS - Basic Functions



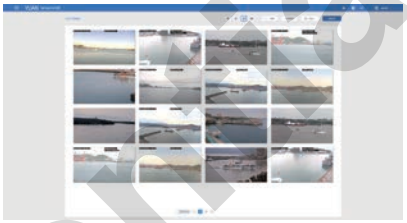
Dashboard

- Event and Object Classification Statistics
- Event and Object Quantity Sorting
- Alert Processing (Alarm Operations)



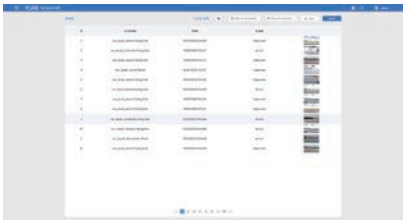
Map View

- Map Area Management
- Drag and Drop
- View by Location Filter



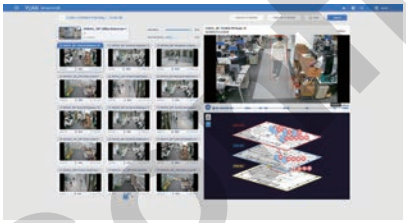
Live Video

- Real-Time Web Video Preview
- Cross-Domain Real-Time Video Streaming
- Supports Multiple Communication Settings



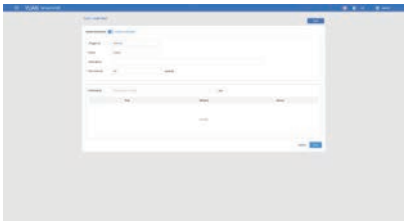
Event View

- Event Search and Filtering
- Face ID / License Plate Recognition Search
- Event Video Upload from NVR
- Event Video Playback and Download



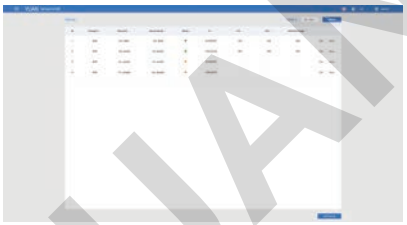
Cross-Camera Tracking

- Intelligent Event Search
- Search-Based Target Tracking
- Real-Time Event Alert Trigger



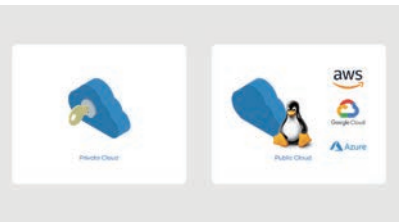
Notification Settings

- Trigger Condition Settings
- Trigger Event Name
- Trigger Time Settings
- E-Mail
- Instant App (Discord / Telegram / LINE)
- HTTP



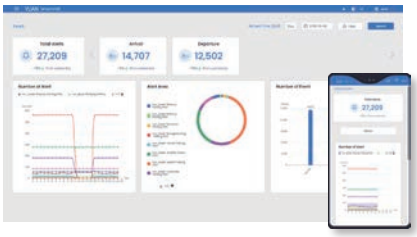
Device Management

- Device Status Monitor
- Device Abnormality Alarm Notification
- Cross-Domain Device Manager



Private / Public Cloud

- Dashboard
- Streaming Server
- Video Manager System
- Event Manager
- Information Security Certification
- Linux-based Server



Web Client

- RWD Mobile Web Support
- Low-Latency Web Live Video Playback
- Cross-Domain

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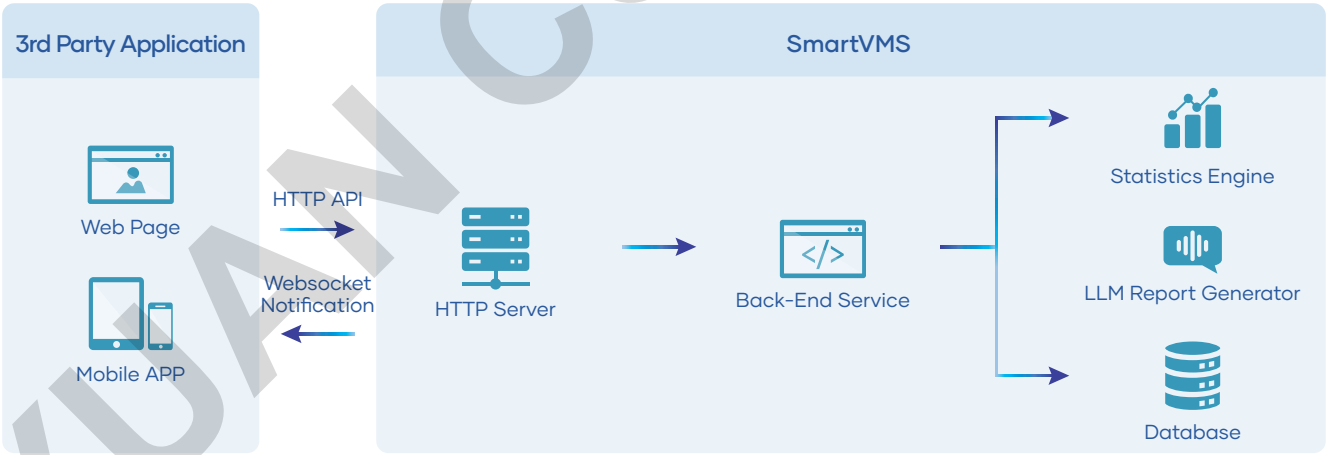
SmartVMS - API Integration

SmartVMS offers a modular and highly flexible API interface based on standard HTTP RESTful architecture, enabling developers to efficiently access data from multiple AI-powered devices-including system status, camera streams, event logs, anomaly footage, and real-time video. This scalable design allows development teams to deploy quickly and expand functionalities as needed.

Versatile Smart Environment Applications

SmartVMS APIs can be seamlessly integrated into a wide range of intelligent use cases, helping organizations improve operational efficiency and decision-making capabilities :

- People Flow Analysis & Behavioral Insights
- Vehicle Monitoring & Traffic Control
- Access Control & Permission Management
- Electronic Fencing & Proactive Defense
- Multi-Site Video Surveillance & Smart Alerts
- Occupational Safety Monitoring & PPE Detection
- Operational Reports & Data Visualization



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SmartVMS - CrossCamera Tracking System

Cross-Camera Tracking System is an Edge AI-powered video analytics solution designed for personnel tracking, event investigation, and rapid search in complex environments. The system quickly identifies target individuals from large volumes of surveillance footage and automatically links their movement trajectories across cameras, floors, and time periods, enhancing incident response and investigation efficiency.

Key Features

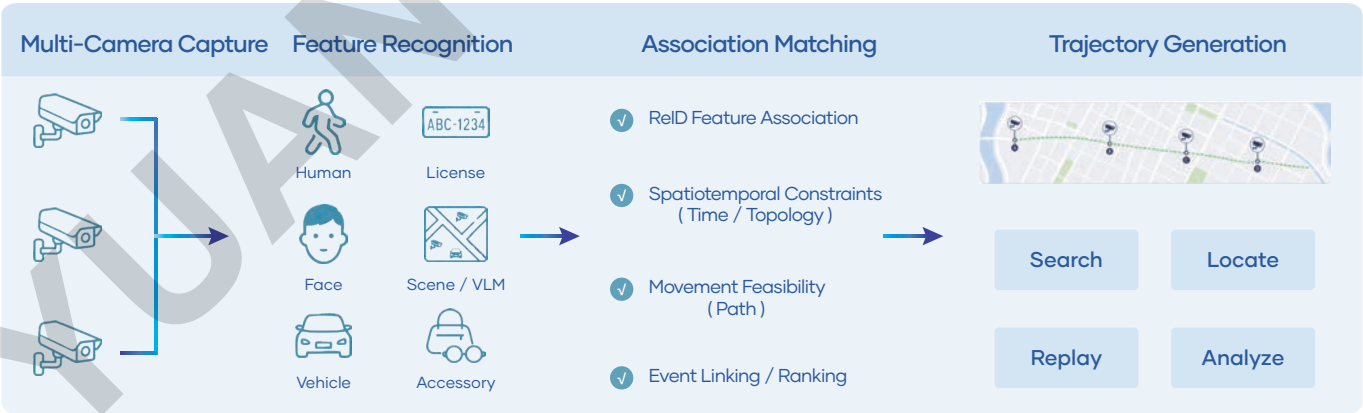
• **Cross-Camera Trajectory Reconstruction**
Automatically links footage across different cameras and time periods to quickly reconstruct the target individual's movement path.

• **Person Re-Identification (ReID)**
Combines facial features, clothing, accessories, and body characteristics to improve identification stability in complex environments.

• **Natural Language Search**
Search for targets using text descriptions (e.g., "find a person carrying a knife or gun" or specific clothing attributes.)

• **Edge-Only Real-Time Processing**
AI analysis is performed locally on edge devices, reducing latency, bandwidth usage, and cloud computing costs.

• **Security & Privacy Protection**
Video data does not need to be uploaded to the cloud, reducing the risk of data leakage and enhancing data compliance.



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SmartFlow

AI-Powered People Analytics at the Edge

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SmartFlow Solution

In today's rapidly evolving environment, understanding people flow patterns in public spaces is crucial for optimizing operations and enhancing safety. Whether managing crowd movement at large events or improving customer experience in retail stores, an AI-powered people flow analysis system provides unique and precise insights to help administrators better understand human behavior.

Our AI people flow analysis system offers real-time data and visualized traffic analytics, effectively monitoring foot traffic, calculating total visitor count, average occupancy, and density distribution across different areas. This enables businesses and organizations to identify peak hours, potential congestion zones, and adjust operational strategies accordingly.



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SmartFlow Solution

One-Page Dashboard with Real-Time and Historical People Flow Insights

The SmartFlow Solution dashboard is a single-page, highly visual interface that consolidates real-time data, interactive charts, heatmaps, and live video streams. It empowers users to gain a comprehensive overview of people flow patterns at a glance.With automatic updates and slideshow-style screen rotation, the dashboard can be deployed on front-desk monitors or large display walls, ensuring seamless monitoring across multiple areas and timeframes.

Beyond real-time insights, the dashboard includes extensive historical data access, allowing users to switch between daily, weekly, and monthly views. It also supports filtering by camera or specific event types. This enables quick trend comparisons and facilitates data-driven decision-making for long-term operational planning.



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SmartFlow Solution

From Heatmaps to Reports : A Smarter Way to Understand People Flow

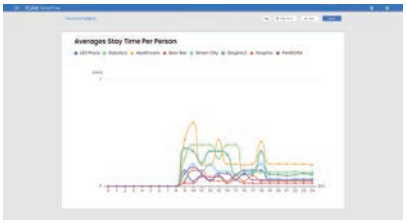
The system includes heatmap visualization with intuitive color cues to highlight high-traffic zones, bottlenecks, and areas needing optimization. It also uses LLM (Large Language Model) technology to auto-generate reports, providing insights into trends and behaviors without manual processing.

AI-powered people flow analysis replaces manual counting with accurate data, enhancing security, layout design, event planning, and public safety. Ideal for malls, airports, offices, and venues, it enables smarter, data-driven decisions for smoother operations.



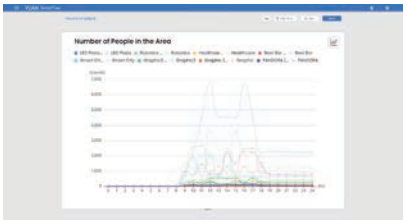
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SmartFlow - Basic Functions



Average Stay Time Per Person

· Human Shape Detection and Tracking
· Valid / Invalid People Counting
· Daily / Weekly / Monthly



Number of People in the Area

· Daily / Weekly / Monthly
· Average Stay Time Per Person



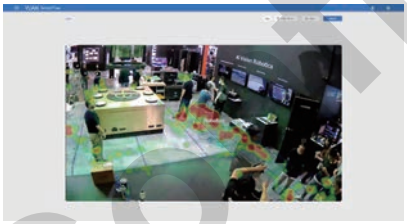
Regional Crowd Density

· Daily / Weekly / Monthly
· Regional Crowd Density



Heatmap

· Heatmap Display on Floor Plan
· Time Selection Configuration



Live

· Live Video with Hot Spot
· Live Video cross Multi-Camera



Report

· People Flow Analysis by LLM
· Graph Chart
· Time Selection
· PDF Export

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SmartFlow - Basic Functions

The system provides clear, visualized metrics that highlight key aspects of people movement, enabling operators to monitor space usage and flow trends at a glance.

· **Average Stay Time Per Person**

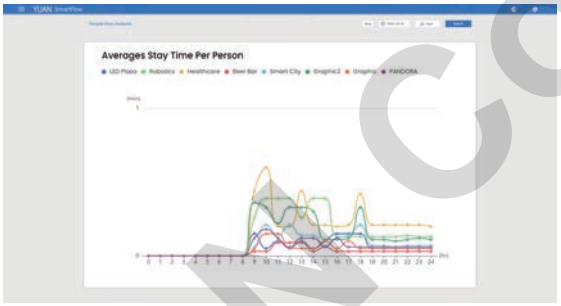
The system displays real-time or time-based data on average stay duration per visitor, helping assess space engagement and operational effectiveness.

· **Number of People in the Area**

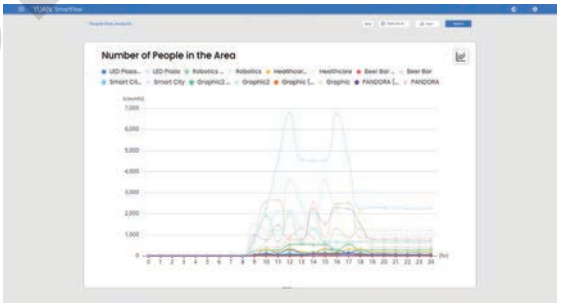
Provides both valid people count and total headcount, offering a clearer picture of occupancy and flow quality.

· **Regional Crowd Density**

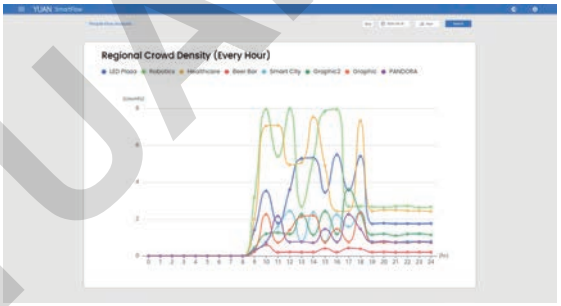
Regional density is visualized through both line and bar charts, showing crowd fluctuations over time and helping identify congestion risks or usage patterns across different zones.



Average Stay Time Per Person



Number of People in the Area



Regional Crowd Density



Regional Crowd Density

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SmartFlow - Basic Functions

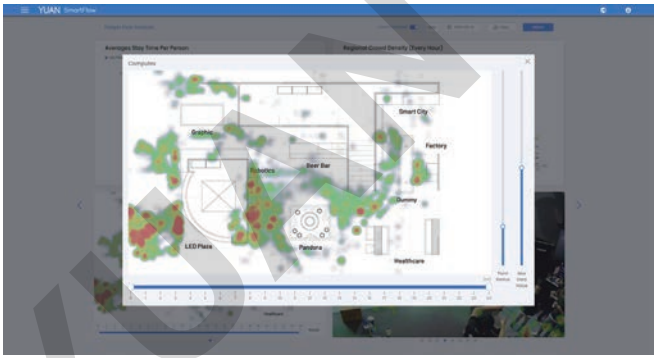
· **Heatmap View Panel**

The heatmap view panel provides deeper insights into people flow by allowing users to analyze different time intervals, such as morning hours, lunch breaks, or evening peaks.

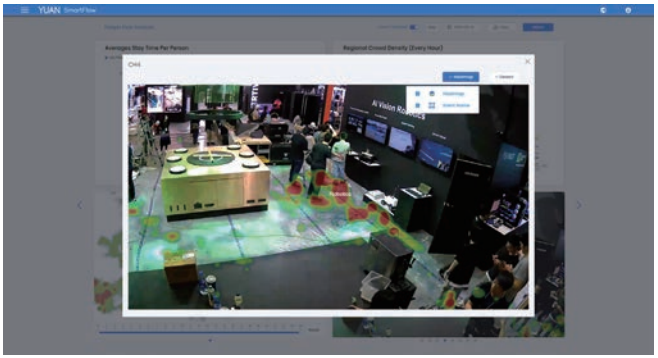
In addition, the system supports customization of key heatmap parameters, including point max value and point radius, enabling fine-tuned visualizations tailored to the scale and characteristics of the monitored environment.

· **Live Video Details**

On the live video interface, users can adjust the level of visual detail based on operational needs.
The system provides settings such as people flow heatmaps, AI-detected bounding boxes, or defined detection zones, offering intuitive visuals of density, movement, and surveillance boundaries. Each visual layer can be toggled on or off, ensuring a clean display while still delivering critical context for efficient monitoring and accurate decision-making.



Heatmap View Panel



Live Video Details

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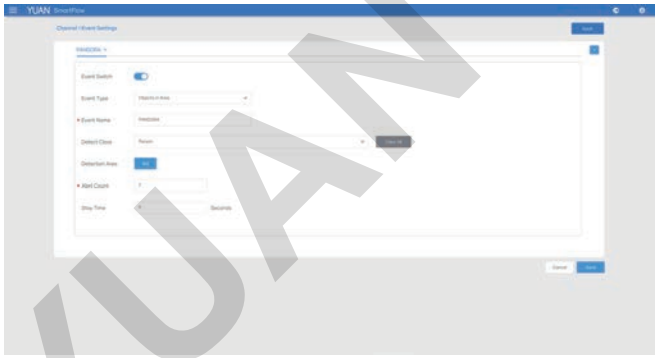
SmartFlow - Basic Functions

· **Event Settings**

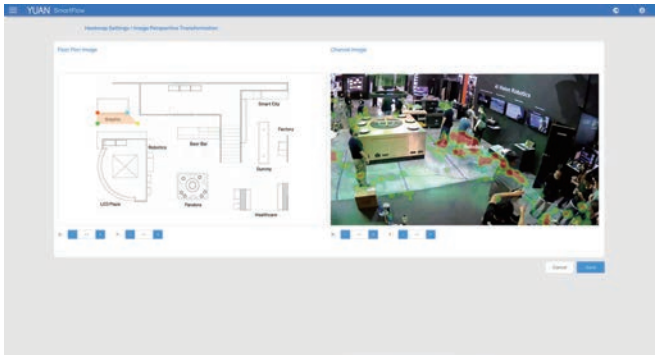
The system allows users to flexibly configure people flow events and define trigger conditions on a per-camera basis, adapting to the specific needs of different environments. Detection parameters such as zone boundaries and trigger duration can be precisely adjusted to improve accuracy and minimize false positives.

· **Heatmap Settings**

Users can upload custom floor plans and align camera views through an intuitive mapping interface. The system converts 3D people flow data into 2D heatmaps, delivering spatially meaningful, real-time visualizations of crowd density.



Event Settings



Heatmap Settings

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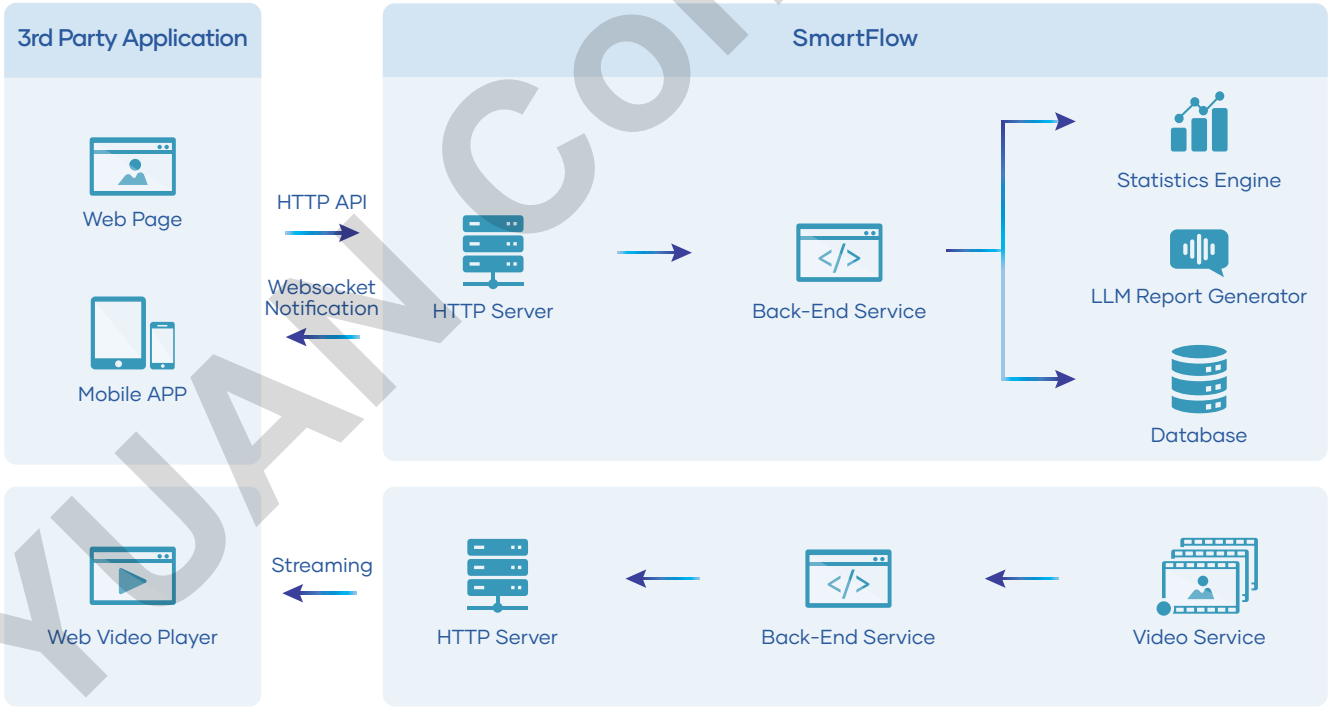
SmartFlow - API Integration

SmartFlow is an AI-powered video analytics platform specifically designed for people flow analysis. It provides a standardized HTTP RESTful API for stable and structured data access, making it easy for developers to integrate with analysis modules and third-party platforms. Key functionalities include : Zone-Based People Count, Crowd Density Monitoring, Dwell Time Analysis, Heatmap Generation & Display and Automated Report Generation.

Real-Time Video & Front-End Integration Module

SmartFlow also includes a built-in JavaScript video player module, enabling developers to easily embed low-latency video previews into customized websites and management platforms. Key features include : Low-Latency Playback, Real-Time AI Bounding Box Overlay, ROI and Analytics Overlay.

This integration empowers developers to visualize AI insights efficiently and ensures seamless synchronization between back-end analytics and front-end presentation.



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SmartXON

Bidirectional Streaming with Real-Time AI Fusion

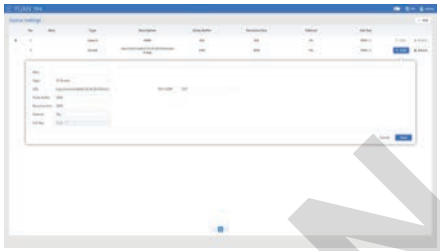
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SmartXON Solution

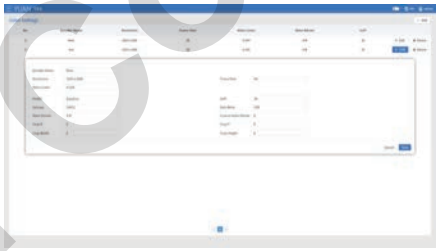
SmartXON is a powerful streaming device with bidirectional encoding and decoding capabilities. It connects directly to wired video sources such as HDMI2.0 / 12G-SDI / DP and more, Supporting seamless, high-efficiency video capture, processing, and live streaming in real time. In addition SmartXON can receive IP camera feeds or third-party network streams, performs intelligent analysis locally, and delivers the results either for direct presentation or seamless transceiver.

SmartXON is a rich multimedia platform built for industries including broadcast, education, healthcare, and surveillance. Comprehensive range of streaming protocols, including NDI, SRT, RTMP, RTSP, HLS, TS, Dante AV-H, WebRTC, and more. Powered by ultra-low latency and highly stable transmission technology.

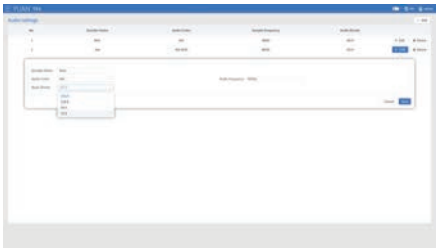
Rich multimedia features are video recording, subtitle overlay, chroma key, marquee text and CG Full-featured HTTP API for third-party system integration, An intuitive and powerful web-based user interface Tailor-made solutions for every industry.



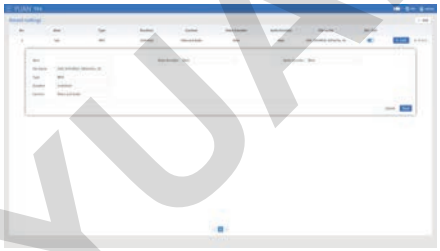
Source Setting



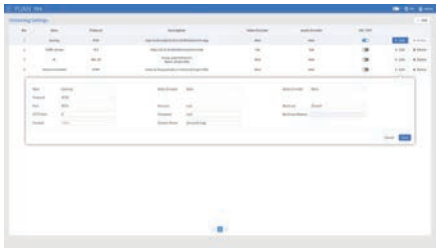
Video Setting



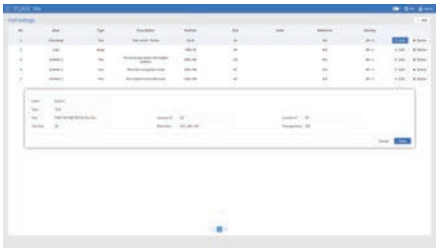
Audio Setting



Record Setting



Streaming Setting



OSD Setting

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SmartXON Solution

SmartXON All-in-One edge AI Streaming Platform

SmartXON uses electronic pan, tilt, and zoom to keep moving subjects properly framed without any physical camera movement. It delivers smooth, natural video by dynamically adjusting the visible area in real time.

· Set Up for the Desired Field of View

Digital Framing provides flexible controls to define the ideal subject size — from full-body to close-up — with precise area selection inside the original image. Users can adjust horizontal and vertical framing to place subjects exactly where needed, ensuring the best angle and composition for every scene.

· Auto-Track Registered Faces

Face Registration detects and digitally tracks selected faces based on priority settings assigned to pre-registered face profiles. It can store up to 40 faces, which can be edited or removed as needed. This keeps important subjects centered in the frame at all times.

· Single / Multi Person Framing

Multi-person Framing recognizes and frames multiple people simultaneously within the same scene. It automatically adjusts the digital crop to fit the chosen number of people naturally in view, supporting group framing for up to 8 people with clear distinction between primary and secondary subjects. This makes it ideal for a wide range of applications, including corporate conferences, panel discussions, weddings, and other events.



Desired Field of View



Auto Framing



Single / Multi Person Framing

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SmartXON - Basic Functions



Capture

- Versatile Input Interfaces
- Ultra-Low Latency Capture (RDMA)
- Text / Image Overlay and Chroma Keying
- Low Display Engine



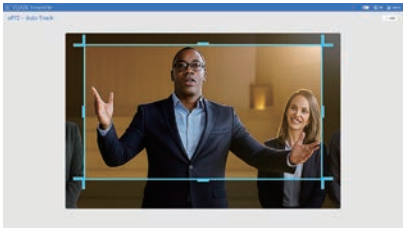
Record

- Schedule Recordings
- On-Site and Off-Site Recording
- Multiple Format MP4, ES, MOV and TS



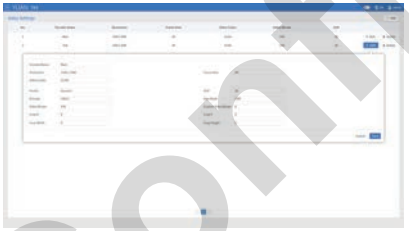
Stream

- Ultra-Low Latency
- Bidirectional with Receiver and Transmitter
- Works with NDI, Dante AV, RTSP, RTMP, SRT and more



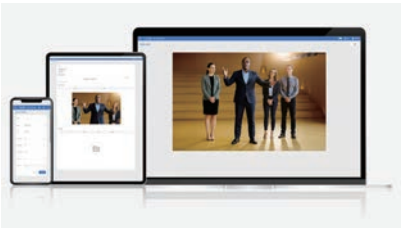
Auto Framing

- Set Up for the Desired Field of View
- Auto-Track Registered Faces
- Single / Multi Person Framing



Setting

- Resource Monitor CPU, Mem, FPS and more
- Full Support for H26x Encoding
- Flexible Streaming and Record Settings



Multiple Devices

- Web GUI Adapts Perfectly to Mobile, and Tablet
- View Live Video on Any Device, Anytime
- No App Required, Works Instantly in Your Browser

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SmartHealth

Digital Operating Room Video Solution

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SmartHealth Solution

Comprehensive Video Management for Modern Operating Rooms Modern operating rooms demand reliable, high-quality video management for surgery, education, and documentation. SmartHealth delivers a comprehensive 4K video matrix platform that seamlessly integrates video routing, surgical recording, and live streaming—empowering hospitals to transform surgical workflows and enhance medical training.

Built on a hybrid architecture combining traditional matrix switching with advanced IP streaming capabilities, SmartHealth provides the flexibility and reliability required for mission-critical surgical environments. From minimally invasive procedures to complex multi-specialty operations, SmartHealth ensures every critical moment is captured, distributed, and archived with professional-grade quality.



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SmartHealth Solution

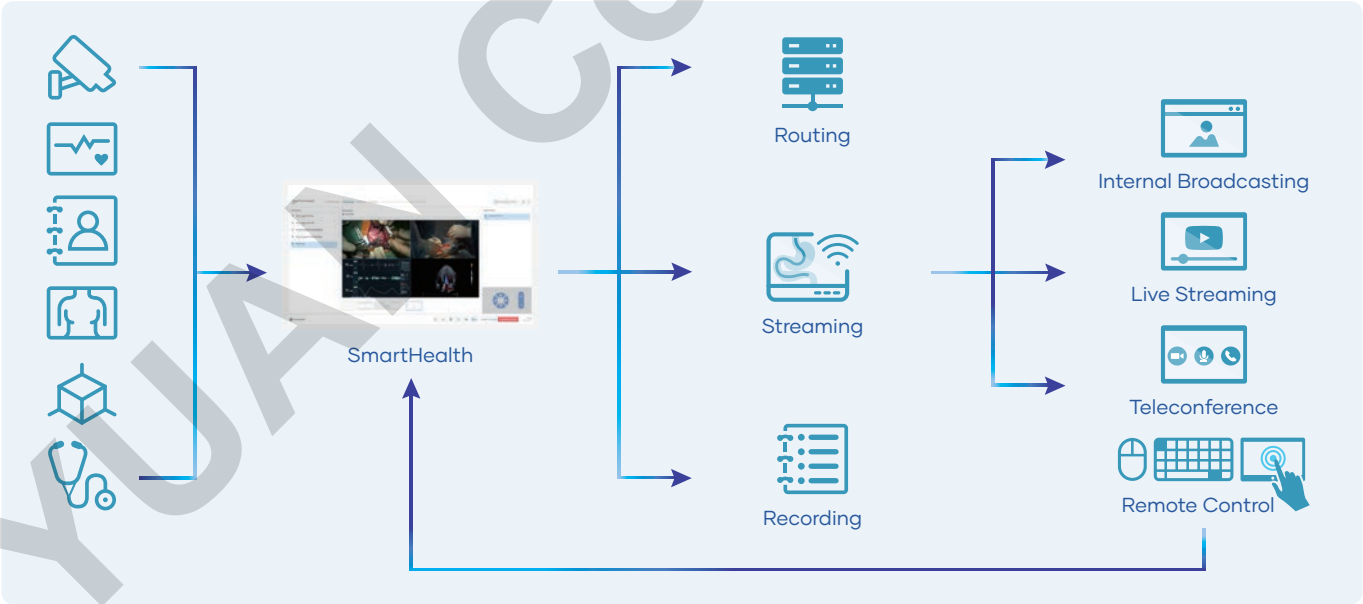
SmartHealth's recording engine is purpose-built for surgical environments, delivering broadcast-quality multi-channel capture with intelligent layout management and seamless hospital system integration.

· Multi-Channel 4K Recording Capture multiple surgical views simultaneously with independent control for each channel. Synchronized recording ensures frame-accurate timing across all video sources—from surgical cameras to endoscopes and medical imaging devices.

· Flexible Picture-in-Picture Layouts Advanced layout engine supports customizable configurations including main view with multiple auxiliary sources (4+1), dual main views for robotic surgery (2+2), and primary with triple auxiliary (1+3). Switch layouts in real-time without interrupting recording.

· Hospital System Integration Ready Professional video archiving with secure storage and retrieval. Architecture designed for seamless integration with hospital PACS and medical information systems.

· Intelligent Workflow Automation Multiple recording modes adapt to diverse OR workflows : continuous recording with event marking, scheduled capture based on OR calendar, event-triggered recording, and configurable buffers to ensure critical moments are captured.



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SmartHealth - Basic Functions



Video Routing

- Flexible Source Selection
- Real-Time Switching
- Multiple Inputs



Multi-Display

- Customizable Layouts
- PIP configurations
- Preset Scenes
- Quick Recall



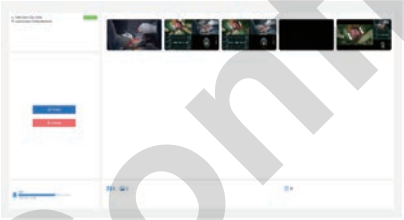
Surgical Recording

- Multi-Channel 4K
- Simultaneous Capture
- Professional Quality
- Format Flexibility



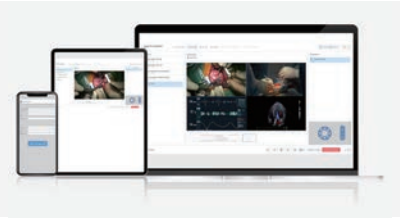
Live Streaming

- Remote Education
- Multi-Site Delivery
- RTSP / RTMP Support
- Low-Latency Stream



Playback & Export

- Quick Search
- Easy Clip Export
- Annotation Tools
- Multiple Formats



Multiple Devices

- Web-Based Control
- User Management
- System Monitoring
- Activity Logging

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Let's Reshape Video Intelligence - Together.

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Visualize Intelligent Planet

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