

HikCentral-Professional



1. VMS Management System

HikCentral Professional is a robust, scalable, and stable video management system (VMS) built on a client-server architecture. It provides a comprehensive solution for security management, emergency response, and intelligent urban resource control.

Key Functions:

- Emergency handling and dispatch.
- Intelligent traffic management.
- Centralized camera monitoring.
- Real-time display of intelligent event data.
- Advanced alarm and analytics handling.

2. Modular and Intuitive Interface

The platform organizes its functionalities into specialized modules, streamlining user access:

- Monitoring Center: Live view, playback, videowall control, interactive maps, augmented reality (AR).
- Emergency Response Center: End-to-end emergency management, dispatching, and group calls to mobile devices.
- Intelligent Data Center: Event processing, statistical analysis, and AI-powered insights.
- Maintenance Center: Real-time monitoring of system health and devices.

3. Compatibility and Scalability

- Integrates with third-party cameras via ONVIF (Profiles S, G, T, M) and proprietary SDKs (e.g., Axis, Dahua, Hanwha).
- Supports databases: MySQL, PostgreSQL, SQL Server, Oracle.
- Distributed architecture supports up to 20,000 cameras.

4. Recording and Storage

- Recording modes: Continuous, event-triggered, and command-based.
- Supports primary and auxiliary storage.
- Video backup and alarm image storage.
- Compatible with NVRs, DVRs, SAN devices, and encoders.

5. Event Management

- Event-linking with cameras and automated actions.
- Supports various event types: facial recognition, vehicle analytics, maintenance alarms, etc.
- Real-time alarm display on geographic maps.

6. Database Architecture

- Database can be embedded or hosted on an independent server.
- Manages over 20 million events with images distributed across functional modules.
- High-speed processing and querying capabilities.

7. Video Surveillance Center

- Live view and playback with variable speed (from 1/64x to 64x).
- Video tagging and locking to prevent overwriting.
- Manual recording and evidence export with one click.
- Advanced filtering by object type and specific area.

8. Interactive Mapping

- Links video channels, alarms, and geographic locations.
- Real-time alarm and live video display on the map.
- Supports up to 8 hierarchy levels, minimum resolution of 8000x8000 px, and up to 300 resources per layer.

9. Augmented Reality View

- Panoramic image support with interactive overlays.
- Customizable templates (up to 50 templates).
- Alarms blink on screen; system shows total count by type (persons, vehicles, smart alarms).
- Displays snapshots of faces and license plates.

10. Intelligent Data Center

- Monitors and processes over 30 types of alarms in real time.
- Generates alarm statistics and frequency analysis.
- AI integration enables object search and movement tracking.
- Supports facial recognition with watchlist creation and management.

11. Emergency Response Center

- Manages full emergency lifecycle: from reporting to dispatch and case closure.
- Stores encrypted evidence centrally with access control.
- Allows manual or automatic alarm source registration.
- Configurable popup duration: 20s, 40s, 1 min, or custom.
- Real-time device tracking (e.g., bodycams) with map display and group call initiation.
- Enables real-time communication between administrators and field personnel.

12. Dashboard & Reports

- Real-time or scheduled (daily/weekly/monthly) statistics.
- Captures, alarms, emergencies, and violations analytics.
- Visual charts: bars, pies, and lines.

13. System Maintenance

- Monitors CPU, memory, network, storage, and running services.
- Reports faulty devices or channels in real-time.

14. Third-party Integration

- Supports BACnet, ModBus, SNMP, SIA protocols.
- Customizable sync frequency for third-party data sources.
- Integration with third-party access control systems and external databases.

15. Videowall Control

- Dynamic and seamless camera distribution across videowalls directly from the VMS interface.

16. Device Registration

- Registration via IP auto-discovery, domain, P2P, EHome, ISUP.
- Supports 3G/4G automatic registration and bulk import.

Headquarters

No.555 Qianmo Road, Binjiang District,
Hangzhou 310051, China
T +86-571-8807-5998
www.hikvision.com



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