

CCTV and Security System Network Diagram

Comprehensive CCTV and security systems integrate cameras, door entry systems, and alarm modules for complete surveillance. Fiber optic connections ensure high-speed data transmission between components in the system.



System Overview

Integrated Security Network Architecture

This comprehensive network diagram illustrates a sophisticated, multi-layered security and surveillance ecosystem designed for professional environments. The architecture seamlessly integrates wired and wireless surveillance cameras, advanced door entry systems, and alarm modules into a unified management framework. Utilizing high-speed fiber optic and structured cabling, the system ensures reliable data transmission and centralized control for enhanced facility safety.

System Components

Core Infrastructure

- Surveillance Cameras (Wired & Wireless)
- Door Entry Systems & Door Phones
- Alarm Modules
- Terminal & Expansion Units
- Telephone Modules
- Network Switches
- Optical Transceivers
- IP Converters

Management Center Equipment

Digital Management Consoles, Monitoring Displays, Centralized Computer Systems

Cabling Specifications

Supported Cabling Standards

| Cable Identifier | Usage Context |
|--------------------|----------------------------------|
| 2-core Fiber Optic | High-speed backbone transmission |
| SYV75-5 | Video signal transmission |
| RVVP6X0.5 | Shielded signal cabling |
| RVV3X0.5 | Power/Control cabling |
| RVV2X1.0 | Power/Control cabling |

Technical Metrics

Power Supply Ratings

12 V

Standard DC Voltage

18 V

High-Voltage DC Input

Security Zone Capacity

- 8 Wireless Defense Zones
- 8 Wired Defense Zones