

CCTV System Specification Guide

1. Camera Type

Dome Camera

- Suitable for indoor surveillance
- Compact and vandal-resistant design
- Wide-angle monitoring

Bullet Camera

- Suitable for outdoor surveillance
- Long-range viewing capability
- Weatherproof housing

PTZ Camera (Pan-Tilt-Zoom)

- Remote directional and zoom control
- Ideal for large areas
- Auto-tracking support

Turret Camera

- Flexible viewing angle adjustment
- Better night vision performance
- Suitable for indoor and outdoor use

2. Resolution Options

Resolution	Pixel Quality	Recommended Usage
2 MP	Full HD (1080p)	Homes & small offices
4 MP	Enhanced clarity	Shops & offices
5 MP	High-detail monitoring	Commercial use
8 MP	4K Ultra HD	Large premises & critical surveillance

3. Lens Specification

Lens Type	Viewing Angle	Usage
2.8 mm	Wide angle	Indoor rooms
3.6 mm	Standard view	General monitoring
6 mm	Narrow long-range	Entrances & parking
Varifocal Lens	Adjustable	Flexible surveillance

4. Night Vision

- Infrared (IR) Night Vision
 - Color Night Vision
 - Smart IR Technology
 - IR Distance:
 - 20 m
 - 30 m
 - 50 m
 - 80 m+
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5. Video Compression

Compression Type Benefit

H.264	Standard compression
H.265	Better storage efficiency
H.265+	Advanced bandwidth saving

6. Storage Specification

DVR/NVR Support

- 4 Channel
- 8 Channel
- 16 Channel
- 32 Channel

Hard Disk Support

- 1 TB
 - 2 TB
 - 4 TB
 - 6 TB
 - Surveillance-grade HDD recommended
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7. Connectivity

Wired CCTV

- Coaxial cable support
- Cat6 cable support
- Stable connection

Wireless CCTV

- Wi-Fi enabled
 - Mobile app connectivity
 - Cloud support
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8. Smart Features

- Motion Detection
 - Human Detection
 - Face Detection
 - Line Crossing Alert
 - Intrusion Detection
 - Mobile Notification
 - Two-Way Audio
 - Remote Viewing
 - AI Analytics
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9. Weather Protection

Rating Protection Level

IP66 Dust & heavy rain resistant

IP67 Waterproof protection

IK10 Vandal-resistant body

10. Power Supply

- 12V DC Adapter
 - PoE (Power over Ethernet)
 - Power Consumption: 5W–15W per camera
 - UPS backup recommended
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11. Mobile & Remote Access

- Android App Support
 - iOS App Support
 - PC Monitoring Software
 - Cloud P2P Connectivity
 - Multi-user access
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12. Recommended Brands

- Hikvision
 - Dahua
 - CP Plus
 - UNV (Uniview)
 - Honeywell
 - Bosch
 - Panasonic
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13. Example CCTV System Configuration

Home CCTV Setup

- 4 × 2MP Dome Cameras
- 4 Channel DVR
- 1 TB HDD
- Mobile App Access
- 20–30 m IR Night Vision

Office CCTV Setup

- 8 × 5MP Cameras
- 8 Channel NVR
- 4 TB HDD
- PoE Switch
- AI Motion Detection

Industrial CCTV Setup

- 16+ 4K Cameras
- 32 Channel NVR
- 8 TB Surveillance HDD
- PTZ Camera Support
- Long-range IR
- Central Monitoring System

14. Installation Guidelines

- Install cameras at 8–12 ft height
- Avoid direct sunlight exposure
- Use surge protection
- Maintain proper cable management
- Ensure network security with strong passwords

15. Warranty & Maintenance

- Standard Warranty: 1–3 Years
- Annual Maintenance Contract (AMC) recommended

- Regular firmware updates
- Periodic lens cleaning