

# Camera Specifications for CCTV Installation

## 4MP PTZ Camera Specifications

### General Features

- **Image Sensor:** 1/2.8" STARVIS™ CMOS or similar.
- **Resolution:** 4MP (2560 x 1440 pixels).
- **Optical Zoom:** 25x or more for detailed monitoring.
- **Min. Illumination:**
  - **Color:** 0.003 lux @ F1.6.
  - **Black & White:** 0.0005 lux @ F1.6 (IR on).
- **Wide Dynamic Range (WDR):** 120dB for balanced lighting in high-contrast environments.
- **Day/Night Mode:** Auto switch with IR-cut filter (ICR).
- **Focal Length:** 4.8mm to 120mm, supporting various viewing angles.
- **Aperture:** F1.6 – F4.0 for better low-light performance.
- **Illumination Range:** IR illumination up to 30m or more.

### Video and Smart Features

- **Video Compression:** H.265+/H.265/H.264+/H.264/MJPEG.
- **Frame Rate:** Up to 30fps @ 4MP.
- **Smart Features:**
  - Intrusion detection, line crossing detection.
  - Human and vehicle classification for alarms.
  - People counting for crowd density analysis.

### PTZ Features

- **Pan/Tilt Range:**
  - Pan: 0° to 360° continuous rotation.
  - Tilt: -15° to 90° with auto-flip.
- **Presets:** Up to 300.
- **Speed:** Pan speed up to 200°/s, tilt up to 120°/s.

### Connectivity and Storage

- **Network:** RJ45, supports IPv4/IPv6, ONVIF profiles S, G, T.
- **Storage:** Support for MicroSD cards, NAS, and FTP.
- **Power Supply:** DC12V or PoE+ (IEEE 802.3at).