**NIRIKHON**

SECURITY & DEFENCE TECHNOLOGY

PRODUCT BROCHURE

CCTV CAMERA

# 5MP HD Bullet CCTV Camera

The 5MP HD Bullet CCTV Camera by NIRIKHON (Model NKT855CZ37EA) delivers sharp 25/30 fps performance at 2592×1944 resolution for forensic-grade clarity. Its precision 3.6mm lens ensures accurate framing, while IR illumination extends visibility up to 30M for reliable night monitoring. Backed by a 1-year product warranty and lifetime service warranty, it's built for dependable, mission-critical institutional deployment around the clock.




5MP HD Bullet CCTV Camera

Official Brochure

## SOLUTION SNAPSHOT

| | | |
|---|---|---|
| **5MP High-Definition Resolution** | **3.6mm Precision Optical Lens** | **25–30M Night IR Illumination** |
| **1-Year Product & Lifetime Service Warranty** | **Real-Time Video Streaming Stability** | **Institutional-Grade Housing & Durability** |

OVERVIEW

## Built for Real Operations 01

The 5MP HD Bullet CCTV Camera by NIRIKHON (Model NKT855CZ37EA) delivers sharp 25/30 fps performance at 2592×1944 resolution for forensic-grade clarity. Its precision 3.6mm lens ensures accurate framing, while IR illumination extends visibility up to 30M for reliable night monitoring. Backed by a 1-year product warranty and lifetime service warranty, it's built for dependable, mission-critical institutional deployment around the clock.

CAPABILITIES

## Key Features & Product Modules 02

### 5MP High-Definition Image Sensor

The core processing unit that captures video feeds at an impressive 2592 X 1944 resolution. It delivers true 5-megapixel clarity, ensuring that critical visual details remain sharp and identifiable even when zoomed in for forensic inspection.

### 3.6mm Precision Optical Lens

A high-grade 3.6mm fixed focal optical lens designed for balanced wide-angle coverage with minimal distortion. It is ideal for monitoring broad facility entry points, hallways, and perimeter boundaries with crisp focus.

### Dynamic IR Illuminator

Equipped with high-performance infrared LEDs that provide clear night vision up to 25–30 meters in zero-light conditions. It features dynamic light regulation to prevent image over-exposure on close-range targets.

### Real-Time Video Processing Core

Drives smooth 25/30fps video processing at full 5MP resolution without screen lag or frame drops. It ensures fluid motion capture, making it easy to track fast-moving objects or security events in real time.

### Smart Bandwidth & Storage Encoder

Optimizes high-definition video streams to significantly lower network bandwidth and NVR storage utilization. It allows extended video recording retention without degrading core image clarity or forensic detail.

### PoE & Network Interface Module

Features Power over Ethernet (PoE) functionality, enabling high-speed data transmission and camera power delivery over a single network cable. This simplifies site wiring and reduces deployment complexity.

OPERATIONAL VALUE

## Software, Benefits & Outcomes 04

### Real-Time Live Monitoring & View

Streams ultra-sharp 5MP live video feeds with minimal latency for continuous situational awareness

- Ultra-HD 2592 X 1944$ live streaming
- Low-latency video transmission
- Multi-grid camera switching
- Instant manual snapshot & clip recording

### Multi-Channel Video Management System (VMS)

Centralizes camera feeds into a single unified control panel for effortless layout management.

- Synchronized multi-screen grid layouts
- Custom camera grouping by location
- Drag-and-drop channel switching
- Multi-monitor display support

### Smart IR & Night Vision Sensitivity Control

Dynamically configures infrared intensity to deliver clear night vision up to 25–30 meters without glare.

- Smart IR intensity auto-adjustment
- Prevents over-exposure on close objects
- Seamless day/night mode switching
- Custom low-light sensitivity tuning

### Frame Rate & Resolution Configuration (25/30fps)

Provides flexible control over video streams to optimize smooth playback and resolution quality.

- Smooth 25/30fps performance at full 5MP
- Dual-stream configuration (Main & Sub-stream)
- Dynamic bitrate control
- Custom image quality adjustments

### Motion & Boundary Intrusion Detection

Uses smart video analytics to detect movement and boundary line crossings in restricted areas.

- Virtual perimeter line drawing
- Instant intrusion alert triggers
- Customizable detection zones & sensitivity
- Reduces false alarms from environmental factors

### High-Efficiency Storage & Bandwidth Management

Reduces network load and NVR storage consumption while keeping full 5MP forensic quality.

- Advanced H.265/H.265+ encoding optimization
- Extended footage retention capacity
- Bandwidth throttling for low-speed networks
- Smart storage recycling & archive rules

### Remote Video Playback & Event Timeline Search

Features a smart timeline navigation tool for fast incident investigation and video clip exporting.

- Event-based quick video search
- Multi-channel synchronized playback
- Frame-by-frame forensic analysis
- One-click watermarked video export

### Command Center Integration & Central Control

Connects local cameras to enterprise-grade command centers and distributed network infrastructures.

- Standard ONVIF & RTSP protocol support
- Centralized multi-site management
- Distributed NVR/VMS synchronization
- Nationwide security network integration

SPECIFICATION

## Technical Details

05

**5MP HIGH-DEFINITION RESOLUTION**
✓ Included

**3.6MM PRECISION OPTICAL LENS**
✓ Included

**25–30M NIGHT IR ILLUMINATION**
✓ Included

**1-YEAR PRODUCT & LIFETIME SERVICE WARRANTY**
✓ Included

**REAL-TIME VIDEO STREAMING STABILITY**
✓ Included

**INSTITUTIONAL-GRADE HOUSING & DURABILITY**
✓ Included

**2592×1944 ULTRA-HIGH PIXEL DENSITY**
✓ Included

**25/30 FPS ADAPTIVE FRAME RATE CONTROL**
✓ Included

**OPTIMIZED 3.6MM FOCAL COVERAGE**
✓ Included

**DYNAMIC IR NIGHT VISION RANGE (25–30 METERS)**
✓ Included

**LOW-BANDWIDTH HIGH-EFFICIENCY VIDEO ENCODING**
✓ Included

**ALL-WEATHER STRUCTURAL RELIABILITY**
✓ Included

**LIFETIME SERVICE WARRANTY COVERAGE**
✓ Included

**SEAMLESS COMMAND CENTER INTEGRATION**
✓ Included

QUESTIONS

## Frequently Asked Questions

07

### Q. How does the 25–30M Night IR Illumination perform in zero-lux environments, and does it prevent IR over-exposure on targets moving close to the camera?

A. The camera integrates high-efficiency Smart IR illumination engineered to cover an effective operational range of 25 to 30 meters in total darkness (0 Lux). To maintain forensic-grade visual clarity, the system utilizes adaptive IR power management. This mechanism automatically regulates infrared LED intensity based on subject proximity, eliminating image wash-out or lens glare when individuals or vehicles approach the camera within close-range perimeter zones.

### Q. What mechanism is used to optimize network bandwidth and storage retention when streaming high-definition 5MP resolution at 25/30fps?

A. To handle continuous 5MP resolution (2592 X 1944) at 25/30fps, the camera leverages high-efficiency video encoding (H.265/H.265+) combined with dynamic bitrate control. This optimization reduces network bandwidth overhead and NVR storage consumption by up to 50–70% compared to standard H.264 compression, without compromising structural frame detail or forensic video integrity required for evidence review.

### Q. Is the NIRIKHON 5MP Bullet Camera fully compatible with multi-site enterprise VMS platforms and centralized government command centers?

A. Yes, the camera natively supports standardized ONVIF protocols (Profiles S/G/T) alongside RTSP video streaming, ensuring seamless interoperability with third-party Enterprise Video Management Systems (VMS), Central Monitoring Station (CMS) software, and distributed NVR networks. This allows command center operators to centralize live monitoring, remote configuration, multi-channel playback, and event-driven logging across nationwide multi-site deployments.

### Q. How does the camera architecture maintain structural reliability and signal integrity under harsh environmental and field conditions?

A. The camera features a rugged, weatherproof housing designed to protect optical and electronic components against environmental degradation, heavy rain, dust, and humidity. Internal power regulation circuits guard against field voltage fluctuations, ensuring stable $24/7$ continuous streaming performance in high-stress outdoor, perimeter, or industrial installations.

## Ready to deploy 5MP HD Bullet CCTV Camera?

Talk to Nirikhon for product consultation, installation planning, integration support, and enterprise deployment.

**Hotline: 09647 120 120 | Website: www.nirikhon.com**