NIRIKHON

SECURITY & DEFENCE TECHNOLOGY

PRODUCT BROCHURE

IP CAMERA

8MP Bullet IP Camera

The 8MP Bullet IP Camera by NIRIKHON (Model NKN798EADZ37EA / N798FCZ57FA) delivers true 4K UHD clarity at 3840×2160, powered by a Sony IMX415 sensor for forensic-grade precision. Smart VCA AI features enable intelligent, automated threat detection, while dual Warmlight & IR LEDs ensure full-color night visibility up to 30M. With built-in audio and up to 512GB of onboard storage, it's engineered for mission-critical institutional deployment.



8MP Bullet IP Camera | Official Brochure

SOLUTION SNAPSHOT

True 4K UHD Resolution (3840×2160 @ 20fps)	**Sony IMX415 High-Sensitivity Sensor**	**Smart Color Night Vision**
Smart VCA AI Detection Features	**30M Dual Warmlight & IR Illumination**	**High-Capacity Onboard Storage (Up to 512GB)**

OVERVIEW

Built for Real Operations 01

The 8MP Bullet IP Camera by NIRIKHON (Model NKN798EADZ37EA / N798FCZ57FA) delivers true 4K UHD clarity at 3840×2160, powered by a Sony IMX415 sensor for forensic-grade precision. Smart VCA AI features enable intelligent, automated threat detection, while dual Warmlight & IR LEDs ensure full-color night visibility up to 30M. With built-in audio and up to 512GB of onboard storage, it's engineered for mission-critical institutional deployment.

CAPABILITIES

Key Features & Product Modules 02

AI Processing Board

Powered by Smart VCA AI features, this processing core drives intelligent, automated video analytics for faster, more reliable monitoring. It reduces manual oversight while enhancing detection accuracy across every feed.

High-Resolution CMOS Image Sensor

Built on the SSC378DE+Sony IMX415 chipset, this sensor delivers true 4K clarity at 3840×2160 resolution. Every frame captures sharp, forensic-grade detail suited for institutional-grade review.

High-Precision 2.8mm Fixed Lens

Designed with a 2.8mm fixed focus lens to provide a wide-angle field of view and consistent optical clarity across outdoor monitoring zones. It ensures reliable, edge-to-edge 6MP image capture without requiring manual lens adjustments.

Infrared (IR) Illuminator

Equipped with 2-piece Warmlight and IR LEDs delivering up to 30 meters of night-range coverage, paired with Smart Color Night technology for full-color visibility after dark.

Gigabit Network & PoE Module

Enables high-speed data transmission alongside simplified single-cable power delivery, streamlining installation and connectivity. This reduces on-site cabling complexity for large-scale deployments.

IP67 Aluminum Weatherproof Housing

Engineered for resistance against dust, moisture, and physical stress, supporting long-term durability in outdoor environments. This industrial-grade housing underpins reliable performance across all-weather deployment.

APPLICATIONS

Where This Product Fits 03

Airport Face Recognition & Access Control

Public Transport Hub Terminal Security

Commercial Parking Entry Access Control

Law Enforcement Visitor Access Management

Maritime Seaport Industrial Perimeter Defense

OPERATIONAL VALUE

Software, Benefits & Outcomes

04

Live Video Monitoring

Delivers real-time 4K visual command over every connected camera from a single, unified interface.

- Multi-camera live grid view for simultaneous 4K monitoring
- Instant digital zoom and pan for closer visual inspection
- Full-color night monitoring feed powered by Smart Color Night technology
- Customizable layout views by zone, site, or priority level
- One-click switch between live and recorded feed states

Video Recording & Playback

Ensures every 4K moment is captured, stored, and instantly retrievable for institutional review.

- Continuous and event-triggered recording modes
- Fast-forward, rewind, and frame-by-frame 4K playback controls
- Timestamp-based search for rapid incident retrieval
- Local onboard storage support up to 512GB via MicroSD
- Synchronized audio-video playback for full contextual review

Motion Detection Management

Provides intelligent, configurable motion sensing to reduce noise and sharpen focus on real activity.

- Custom motion zone configuration per camera
- Adjustable sensitivity thresholds to minimize false triggers
- AI-assisted motion classification via Smart VCA features
- Scheduled detection windows for time-based monitoring
- Automatic event tagging for faster review

Real-Time Alert & Notification

Keeps command & control operators instantly informed of activity requiring attention.

- Instant push notifications for detected motion or events
- Configurable alert severity levels and routing rules
- Multi-channel alert delivery (dashboard, mobile, email)
- High-resolution snapshot previews attached to every alert
- Alert history log for accountability and review

Remote Access & Mobile Monitoring

Extends full operational control beyond the command center, from any authorized location.

- Secure remote login for live 4K feed access
- Mobile app compatibility for on-the-go monitoring
- Remote playback and footage retrieval capability
- Push alert delivery to mobile devices in real time
- Multi-device session management for field personnel

User & Role Management

Maintains strict operational accountability through structured access control.

- Role-based permission tiers for different personnel levels
- Individual user activity logging and audit trails
- Configurable access restrictions per camera or zone
- Secure login credential management
- Session monitoring for active user oversight

Video Evidence Export & Backup

Converts raw 4K footage into structured, institution-ready evidence with full data protection.

- One-click video and snapshot export functionality
- Scheduled automated backup routines
- Watermarked exports for evidence authenticity
- Flexible export formats for compatibility with review systems
- Secure archival storage for long-term evidence retention

SPECIFICATION

Technical Details 05

TRUE 4K UHD RESOLUTION (3840×2160 @ 20FPS)
✓ Included

SONY IMX415 HIGH-SENSITIVITY SENSOR
✓ Included

SMART COLOR NIGHT VISION
✓ Included

SMART VCA AI DETECTION FEATURES
✓ Included

30M DUAL WARMLIGHT & IR ILLUMINATION
✓ Included

HIGH-CAPACITY ONBOARD STORAGE (UP TO 512GB)
✓ Included

1/2.8" CMOS SENSOR ARCHITECTURE
✓ Included

SSC378DE ADVANCED PROCESSING CHIPSET
✓ Included

CONSISTENT 20FPS FRAME RATE AT FULL 8MP
✓ Included

PRECISION OPTICAL ENGINEERING (4MM F1.6 LENS)
✓ Included

BUILT-IN AUDIO CAPTURE CAPABILITY
✓ Included

DUAL-LED ILLUMINATION ARRAY DESIGN
✓ Included

ONBOARD LOCAL STORAGE INDEPENDENCE
✓ Included

PROOF

Case Studies & Client Feedback 06

Magna dolor est alia

Non aute id neque qu

Placeat atque eum a

Delectus amet quis

Quibusdam laudantium

Eu esse vel asperior

Quis quia quod moles

Tempore ea accusant

Ut perspiciatis ten

Dignissimos obcaecat

Nemo similique nobis

Voluptates quae id s

> *"The attendance solution saved our HR team 20+ hours per week. Face recognition is fast, accurate, and employees love it."*
>
> **Priya Sharma**
>
> CHRO, Enterprise Solutions Inc.

QUESTIONS

Frequently Asked Questions

07

Q. How does the system manage bandwidth demands from continuous 4K video streaming?

A. The platform supports flexible resolution and frame-rate configuration, allowing operators to balance 4K image quality against available network capacity. This ensures stable, uninterrupted streaming even across bandwidth-constrained institutional networks.

Q. What encryption and cybersecurity measures protect footage and system access?

A. Access to live and recorded footage is governed by role-based permissions with secure login credentials, ensuring only authorized personnel can view or manage sensitive data. All user activity is logged continuously, supporting full accountability and audit traceability across the network.

Q. What fail-safe mechanisms prevent data loss if network connectivity is interrupted?

A. Onboard MicroSD storage of up to 512GB enables continuous local recording independent of network status, ensuring zero footage loss during outages. Once connectivity is restored, all locally stored 4K data remains fully accessible for review and export.

Q. How accurate is night-vision footage for evidentiary and identification purposes?

A. Smart Color Night technology combined with dual Warmlight and IR illumination maintains full-color clarity up to 30 meters in low-light conditions. This ensures identification-grade detail is preserved even during nighttime monitoring, supporting reliable evidentiary use.

Q. Is the platform capable of scaling across multiple 4K camera deployments institution-wide?

A. Yes. The management platform supports multi-camera monitoring, centralized user administration, and remote access across distributed sites, making it well-suited for large-scale, multi-location 4K camera network deployment.

Ready to deploy 8MP Bullet IP Camera?

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

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