



Cam8MP Dome IP67 512GB Cloud Managed 4K AI Outdoor Dome with 512GB Storage

Overview

The EnGenius Cloud Camera Cam8MP Dome (ECC500) is a cloud-managed surveillance solution for SMBs seeking scalable security. It enables seamless remote monitoring via the cloud dashboard and mobile app. This camera includes 512GB of built-in storage for secure 4K video recording, reducing reliance on traditional NVRs. Enhanced with an 8MP Sony Starvis sensor with HDR and an extended IR range, it delivers exceptional image clarity in all lighting conditions. IP67 and IK10-rated, it is built to withstand harsh environments. Advanced AI technology, including facial recognition, tracks unusual person in real time, triggering instant alerts and enabling AI-powered searches to reduce footage review time from hours to minutes.



Features & Benefits

- Cloud Dashboard Management and Mobile App monitoring anywhere
- 4K Sony Starvis sensor with HDR 120db of crystal clear image quality day and night
- 3X motorized optical zoom controllable remotely without missing any details
- Camera durable 512GB storage for event and continuous recording 24x7
- IP67, IK10, and working -40°C ~ 60°C / -40°F ~ 140°F for tough weather and vandal resistant
- Multi TOPS AI NPU of facial recognition for instant alert, search, and statistics
- AES-256 encryption ensures microSD recordings remain protected and unplayable on other platforms

Technical Specifications

Optics

Sensor

1/2.8" Sony Starvis 8MP CMOS

Lens

Varifocal 3.2 ~ 10.5mm motorized zoom, Remote zoom, AF

View Angle

H: 108.1° ~ 30.3°, V: 56.3° ~ 17.1°, D: 130.9° ~ 34.8°

Night Vision

Built-in IR LED illumination and IR cut filter

IR Distance

30m / 98ft

Lens Adjustment Range

Manual, Pan: 0° ~ 350°, Tilt: 0° ~ 60°, Roll: 0° ~ 350°

Video

Resolution

8MP 3840x2160 (16:9)

Frame Rate

20 FPS

Video Compression

H.265, H.264, Smart Stream

Streaming Bitrate

600Kbps ~ 6Mbps (Optional, Adaptive)

Video Processing

AE, AWB, AGC, BLC, LDC, WDR, HDR(120dB), 3DNR, Privacy Mask, OSD, Video Orientation

Audio

Audio Format

AAC, G.711

Microphone

Built-in, 5m / 15ft distance

Speaker

Not supported

Advanced AI Analytics

AI NPU

Built-in

People Detection and Tracking

History search, People counting

Vehicle Detection and Tracking

History search, Vehicle counting

Tampering Detection

Event alert

Restricted Area Detection

Event alert, Object counting

Cross Line Detection

Event alert, Object counting

Facial Recognition

History search, Search by Photo, Target alert, Tracking Timeline

EnGenius Cloud AI

Support

Storage

Storage Size

512GB on board

Retention Method

24/7 seamless, Auto Recycling

Retention Days

30 days

Recording Encryption

AES256

Storage Redundancy

Support EnGenius NVS and Cloud storage

System

LED Indicator

System power and status indicator

RTSP

Supported

Reset Button

Internal

Networking Interface

10/100/1000 MbE RJ45 port

Power Method

802.3at PoE+

Max. Power Consumption

16.1W

Operating Temperature

-40°C ~ 60°C / -40°F ~ 140°F

Humidity

5%~90%

Certifications

CE, FCC

Mechanical

Enclosure material

Aluminum alloy, Polycarbonate

Weatherproofing

IP67

Resistance

IK10

Dimensions

Ø145 x 105 mm (Ø5.71 x 4.14")

Weight

740g / 26.11oz

Management Software

Web Browser

Chrome, Safari, Edge

Mobile App

Cloud To-Go on iOS and Android

Hardware Overview



Features and specifications subject to change without notice. Trademarks and registered trademarks are the property of their respective owners. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his/her own expense. Prior to installing any surveillance equipment, it is your responsibility to ensure the installation is in compliance with local, state and federal video and audio surveillance and privacy laws.

