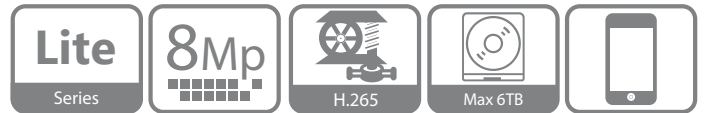# CCTVIreland.ie

# COGNiTiO

# COG-NVR-4K-8BB
## 8 CHANNEL COMPACT 1U LITE 4K NETWORK VIDEO RECORDER



- H.265/H.264 codec decoding
- Max 80Mbps incoming bandwidth
- Up to 8Mp resolution preview&playback
- Up to 1ch@8MP/4ch@1080P decoding
- HDMI/VGA simultaneous video output
- Support IPC UPnP, 8PoE ports

**Lite** Series | **8Mp** | **H.265** | **Max 6TB** |

## System Overview

This NVR is capable of transmitting 8MP image. It helps to save up to 50% HDD and storage space with its H.265 decoding technology compared with H.264.

Due to its cost-effective and easy-to-install design, this NVR is ideal for a wide range of applications such as home safety, grocery, warehouse, education, and financial institutions.

The NVR is compatible with numerous third-party devices making it the perfect solution for surveillance systems that work independently of video management system (VMS). It features an open architecture that supports for multi-user access and is compatible with ONVIF 2.4 protocol, enabling interoperability with IP cameras.

## Functions

4K Resolution

4K resolution is a revolutionary breakthrough in image processing technology. 4K delivers four times the resolution of standard HDTV 1080p cameras and offers superior picture quality and image details. 4K resolution improves the clarity of a magnified scene to view or record crisp forensic video from large areas.

High Efficiency Video Coding (H.265)

The H.265 (ITU-T VCEG) video compression standard offers double the data compression ratio at the same level of video quality, or substantially improved video quality at the same bit rate, as compared to older video compression technologies. H.265 offers such impressive compression by expanding the pattern comparison and difference-coding, improving motion vector prediction and motion region merging, and incorporating an additional filtering step called sample-adaptive offset filtering.

Automatic Network Replenishment (ANR) Technology

Network Video Recorders with the ANR function automatically store video data on an IP camera SD card when the network is disconnected. After recovery of the network, the NVR automatically retrieves the video data stored on the camera.

# COG-NVR-4K-8BB

## Technical Specification

### System

| | |
|---|---|
| Main Processor | Dual-core embedded processor |
| Operating System | Embedded LINUX |

### Audio and Video

| | |
|---|---|
| IP Camera Input | 8 Channel |
| Two-way Talk | 1 Channel Input, 1 Channel Output, RCA |

### Display

| | |
|---|---|
| Interface | 1 HDMI, 1 VGA |
| Resolution | HDMI: 3840×2160, 1920×1080, 1280×1024, 1280×720 |
| | VGA: 1920×1080, 1280×1024, 1280×720 |
| Decoding Capacity | 1ch@8MP 30fps, 4ch@1080P 30fps |
| Multi-screen Display | 1/4/8/9 |
| OSD | Camera title, Time, Camera lock, Motion detection, Recording |

### Recording

| | |
|---|---|
| Compression | H.265/H.264 |
| Resolution | 8MP/6MP/5MP/4MP/3MP/1080P/ 720P/ D1&etc. |
| Record Rate | 80Mbps |
| Bit Rate | 16Kbps ~ 20Mbps Per Channel |
| Record Mode | Manual, Schedule(Regular(Continuous), MD, Stop |
| Record Interval | 1~120 min (default: 60 min), Pre-record: 1~30 sec, Post-record: 10~300 sec |

### Video Detection and Alarm

| | |
|---|---|
| Trigger Events | Recording, PTZ, Tour, Video Push, Snapshot, and Screen Tips |
| Video Detection | Motion Detection, MD Zones: 396 (22 × 18), and Tampering |
| Alarm input | N/A |
| Relay Output | N/A |

### Playback and Backup

| | |
|---|---|
| Sync Playback | 1/4 |
| Search Mode | Time /Date, MD and Exact Search (accurate to second) |
| Playback Function | Play, Pause, Stop, Rewind, Fast play, Slow Play, Next File, Previous File, Next Camera, Previous Camera, Full Screen, Shuffle, Backup Selection, Digital Zoom |
| Backup Mode | USB Device/Network |

### Third-party Support

| | |
|---|---|
| Third-party Support | Arecont Vision, AXIS, Bosch, Brickcom, Canon, CP Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung, Sanyo, Sony, Videotec, and more |

### Network

| | |
|---|---|
| Interface | 1 RJ-45 port (10/100/1000Mbps) |
| PoE | 8 ports (IEEE802.3at/af) |
| Network Function | HTTP/HTTPS, TCP/IP, IPv4/IPv6, RTSP, UDP, NTP, DHCP, DNS, IP Filter, DDNS, IP Search(Support Dahua IP camera, DVR, NVS and etc.) |
| Optical Fiber Interface | N/A |
| Max. User Access | 128 users |
| Smart Phone | iPhone, iPad, Android |
| Interoperability | ONVIF 2.4, SDK, CGI |

### Storage

| | |
|---|---|
| Internal HDD | 1 SATA III Port, up to 6TB capacity for each HDD |
| HDD Mode | Single |
| eSATA | N/A |

### Auxiliary Interface

| | |
|---|---|
| USB | 2 ports (1 Rear USB2.0, 1 Front USB2.0) |
| RS232 | N/A |
| RS485 | N/A |

### Electrical

| | |
|---|---|
| Power Supply | Single, DC48V/2A |
| Power Consumption | NVR: <5.8W (without HDD) |
| | PoE: Max 25.5w for single port, 80w in total |

### Environmental

| | |
|---|---|
| Operating Conditions | -10°C ~ +55°C (+14°F ~ +131°F), 86 ~ 106kpa |
| Storage Conditions | -20°C ~ +70°C (-4°F ~ +158°F), 0 ~ 90% RH |

### Construction

| | |
|---|---|
| Dimensions(W×D×H) | Compact 1U, 260mm×224.9mm×47.6mm (10.2" x 8.9" x 1.9") |
| Net Weight | 0.8kg (1.76 lb) (without HDD) |
| Gross Weight | 1.6kg(3.53 lb)(without HDD) |

### Certifications

| | |
|---|---|
| CE | EN55032, EN55024, EN50130-4, EN60950-1 |
| FCC | Part 15 Subpart B, ANSI C63.4-2014 |
| UL | UL60950-1 |

COGNITIO

## Dimensions (mm)

260.0

HDD    NET    POWER

47.6

224.9