

# NVR-8256DR

128 CH. Embedded 4K NVR, 24 HDD



- Intel Processor
- Max 256 IP Camera Inputs
- Max 512Mbps Incoming Bandwidth
- 24 Hot-swap HDDs
- Supports RAID 0/1/5/10/50/60
- iSCSI and Mini SAS for Expanded Storage Space
- Smart Tracking and Intelligent Video
- Redundant Power & 7-inch HD LCD Monitor

## System Overview

Large, powerful, and 'in-charge', the NVR-8256DR is the pinnacle of High Definition video recording solutions with 256 channels @ 720P or 128 @ 1080P. Boasting an impressive i7 Processor and up to 24 HDDs the NVR8256 serves as a perfect solution for your surveillance backbone. Fully redundant HDDs (RAID compatible), and Fault Tolerant Network cards will help guarantee a constant 24/7/365 of uptime for your surveillance recorder.

### RAID 0/1/5/10

Offering a balance between storage performance, storage capacity, and data integrity, the NVR features RAID 0/1/5/10 for faster and safer recording.

### Fisheye Dewarping

The NVR features multiple fisheye dewarping modes to make viewing video easy whether its live or during playback.

### N+M Hot Standby

The highly reliable redundant N+M Hot Standby design provides a secure, failover technique ensuring

immediate backup. In the event of a system failure, the slave instantly takes over the master ensuring no data is lost.

### Intelligent Video System (IVS)

With built-in intelligent video analytics, the NVR has the ability to detect and analyze moving objects for improved video surveillance. The NVR provides optional standard intelligence at the edge allowing detection of multiple object behaviors such as abandoned or missing objects. IVS also supports Tripwire analytics, allowing the camera to detect when a predetermined line has been crossed, People Counting, ideal for business intelligence, and Facial Detection, for searching or identification of individuals.

## Technical Specification

### System

Main Processor	Intel Core i7 Processor
Operating System	Embedded LINUX

### Video

Max IP Channels	256
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### Audio

Two-way Talk	1 Channel Input, 1 Channel Output, 3.5mm
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### Display

Interface	2 HDMI (Different Source), 1 VGA
Resolution	1920 × 1080 , 1280 × 1024, 1280 × 720 , 1024 × 768
Display Split	1st Screen: 1/4/8/9/16/25/36/64 2nd Screen: 1/4/8/9/16
Privacy Masking	4 rectangular zones (each camera)
OSD	Camera title, Time, Video loss, Camera lock, Motion detection, Recording

### Recording

Video/Audio Compression	H.264/MJPEG
Image Resolution	12MP, 8MP, 6MP, 5MP, 4MP, 3MP, 1080P, 1.3MP, 720P etc.
Record Rate	512Mbps
Bit Rate	16Kbps ~ 20Mbps Per Channel
Record Mode	Manual, Schedule (Regular, MD (Motion Detection), Alarm, IVS), Holiday, Stop
Record Interval	1 ~ 120 min (default: 60 min), Pre-record: 1 ~ 30 sec, Post-record: 10 ~ 300 sec

### Video Detection & Alarm

Trigger Events	Recording, PTZ, Tour, Alarm Out, Video Push, Email, FTP, Snapshot, Buzzer and Screen Tips
Video Detection	Motion Detection, MD Zones: 396 (22 × 18), Video Loss and Tampering
Alarm Input	4 Channel, Low Level Effective, Green Terminal Interface
Relay Output	4 Channel, NO/NC Programmable, Green Terminal Interface

### Playback & Backup

Sync Playback	128 Mbps in Raid 5 Mode; 64 Mbps in single HDD Mode
Search Mode	Time /Date, Alarm, MD and Exact Search (accurate to second)
Playback Functions	Play, Pause, Stop, Rewind, Fast play, Slow Play, Next File, Previous File, Next Camera, Previous Camera, Full Screen, Repeat, Shuffle, Backup Selection, Digital Zoom
Backup Mode	USB Device/Network

### Network

Ethernet/Fiber	4 RJ-45 Ports (10/100/1000Mbps)
PoE	N/A
Ethernet Port	4 Ethernet Ports Joint Working or 4 Independent 1000Mbps Ethernet Ports
Network Functions	HTTP, HTTPS, TCP/IP, IPv4/IPv6, UPnP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE, DDNS, FTP, Alarm Server, IP Search
Max. User Access	128 users
Smart Phone	Android, iOS, iPhone
Interoperability	ONVIF 2.4, CGI Conformant

### Storage

Internal HDD	24 SATA III Ports, Up to 8 TB capacity for each HDD
HDD Mode	Single, Raid 0/1/5/10(Enterprise-level HDDs are recommended), Support Global HDD Hot-spare
External HDD	1 eSATA port
SAS	2 Mini SAS Ports, for Storage Expansion

### Auxiliary Interface

Front Cover	Support Hot-swap, 7-inch HD LCD
USB	4 USB Ports (2 USB 2.0 , 2 USB 3.0 )
RS232	1 Port, for PC Communication and Keyboard
RS485	1 Port, for PTZ Control

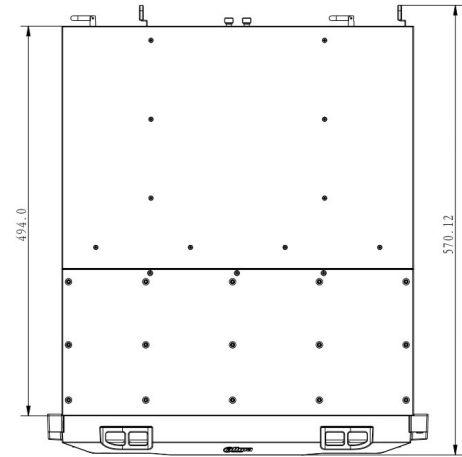
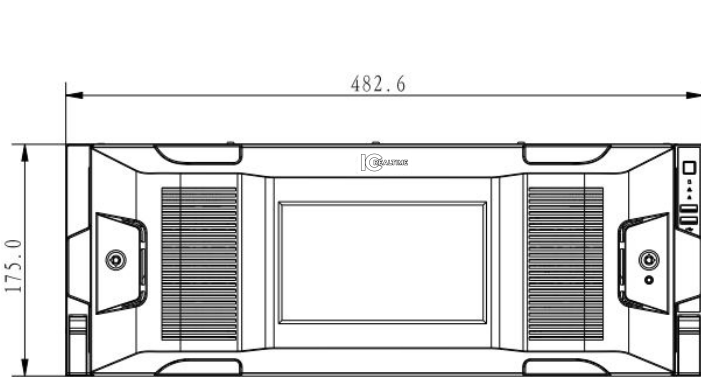
### General

Power Supply	AC100V ~ 240V, 50 ~ 60 Hz, Redundant
Power Consumption	<200W (Without HDD)
Working Environment	-10°C ~ +55°C (+14°F ~ +131°F), 86 ~ 106kpa
Dimensions (W×D×H)	4U, 482.6mm × 570.12mm × 175mm (19" x 22.4" x 6.9")
Weight	39.1kg (86.2 lb)

### Certifications

Certifications	CE: EN55022, EN55024, EN50130-4, EN60950-1 FCC: Part 15 Subpart B, ANSI C63.4-2014 UL: UL 60950-1 and CAN/CSA C22.2 No.60950-1
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Dimensions (mm/in)



Panels

