Digital Video Recorder

DVR16.3-AI



FEATURES

- Supports H.265/H.264 video formats
- Supports audio over coaxial cable (TVI cameras only)
- Supports TVI, AHD, CVI, CVBS, and IP cameras with adaptive access
- 16-channel BNC input
- 1-ch CVBS, 1-ch VGA, and 1-ch HDMI output at up to 4K (3840 x 2160)
- HDMI and VGA simultaneous output
- Long transmission distance over coaxial cable
- Two-way audio support with compatible front-end analog cameras

SPECIFICATIONS

Specification	Value
VIDEO/AUDIO INPUT	
IP Video Input	8-ch
Analog Video Input	16-ch, BNC
Max IP Video Input	24-ch
AHD Input	8MP@15fps, 5MP@20fps, 5MP@12fps, 4MP@30/25/15fps, 1080P@30/25fps, 720P@30/25fps
TVI Input	8MP@15/12fps, 3K@20fps, 5MP@20/12fps, 4MP@30/25/15fps, 1080P@30/25fps, 720P@30/25fps
CVI Input	8MP@15/12fps, 5MP@25/20fps, 4MP@30/25fps, 1080P@30/25fps, 720P@30/25fps
CVBS Input	Support
BNC Audio Input	16-ch, channel audio
RCA Audio Input	1-ch
3.5mm Audio Input	N/A
VIDEO/AUDIO OUTPUT	
Video Output	Support 1-ch CVBS output, 1-ch HDMI, 1-ch VGA, VGA and HDMI simultaneous output
HDMI Output	4K (3840 x 2160)/30 Hz, 1920 x 1080/60 Hz, 1920 x 1080/50 Hz, 1600 x 1200/60 Hz, 1280 x 1024/60 Hz, 1280 x 720/60 Hz, 1024 x 768/60 Hz
VGA Output	1920 x 1080/60 Hz, 1920 x 1080/50 Hz, 1600 x 1200/60 Hz, 1280 x 1024/60 Hz, 1280 x 720/60 Hz, 1024 x 768/60 Hz
HDMI Standard	HDMI 1.4
BNC Video Output	1-ch
BNC Audio Output	16-ch, channel audio
RCA Audio Output	1-ch
3.5mm Audio Output	N/A
Live View Display	HDMI/VGA: 1/4/6/8/9/16/25
Default Num of Live Screen	VGA: 16; HDMI: 16
Playback Screen	1/4/9/16

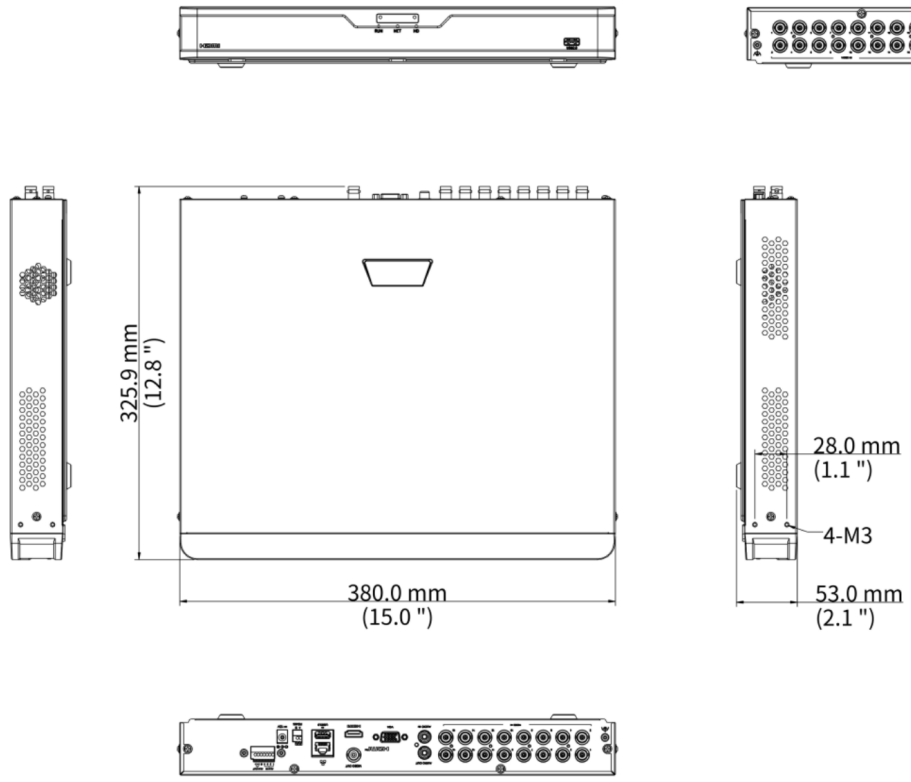
Specification	Value
ENCODING/DECODING	
Recording Resolution	8MP Lite/3K Lite@12/5MP Lite/4MP Lite/1080P/720P/D1
Recording Frame Rate	Main: 8MP Lite@8fps / Sub: D1@8fps / Third: CIF@8fps Main: 3K Lite@12fps / Sub: D1@12fps / Third: CIF@12fps Main: 5MP@6fps / Sub: D1@6fps / Third: CIF@6fps Main: 5MP Lite@12fps / Sub: D1@12fps / Third: CIF@12fps Main: 4MP@15fps / Sub: D1@15fps / Third: CIF@15fps Main: 1080P@15fps / Sub: D1@15fps / Third: CIF@15fps Main: 720P@30fps / Sub: D1@30fps / Third: CIF@30fps
Audio Sample Rate	8 kHz, 16 bit per channel
Audio Bit Rate	64 Kbps per channel
Decoding Capability	Analog: 16 x 8MP Lite@8, 16 x 3K Lite@12, 16 x 5MP@6, 16 x 5MP Lite@12, 16 x 4MP@15, 16 x 1080P@15, 16 x 720P@30 IP: 2 x 8MP@30, 2 x 6MP@30, 3 x 5MP@30, 4 x 4MP@30, 5 x 3MP@30, 8 x 1080P@30, 16 x 720P@30, 32 x D1@30
Num of Concurrent Playback	32-ch
Num of Concurrent Playback in Local	16-ch
Analog Camera Upgrade over Coaxial Cable	Support
Audio over Coaxial Cable (Form)	16-ch, One-way Audio (TVI)
Two-way Audio	1-ch
Analog Snapshot	Schedule/FTP/Event snapshot: 24-ch snapshot, up to 3840 x 2160 resolution
NETWORK	
Incoming Bandwidth	80Mbps
Outgoing Bandwidth	160Mbps
Max Users Can Be Added	32
Remote Users	128
Protocols	TCP/IP, P2P, UPnP, NTP, DHCP, HTTP, DNS, DDNS, SMTP, HTTPS
Browser (Plugin)	IE10, IE11, Chrome 45+, Edge 79+, Firefox 52+
Browser (Plugin-Free)	Chrome 57+, Edge 16+, Firefox 58+, Safari 11+
SMART	
Analog Smart by XVR	Ultra Motion Detection (UMD), Face Detection, SIP (Intrusion Detection, Cross Line Detection, Enter Area, Leave Area)
IP Smart by IPC	Face Detection, SIP (Intrusion Detection, Cross Line Detection, Enter Area, Leave Area), Defocus Detection, Scene Change Detection, Object Removed, Object Left Behind, Auto Tracking, People Flow Counting

Specification	Value
VCA Search	Face Search, Behavior Search, People Counting Report
Smart Functions by XVR	2-ch (Face Detection) | 4-ch (SIP) | 16-ch (UMD)
ALARM	
General Alarm	Motion
Alert Alarm	IP Conflict, Network Disconnected, Disk Offline, Disk Abnormal, Illegal Access, Hard Disk Space Low, Hard Disk Full, Recording/Snapshot Abnormal
GUI LANGUAGE	
GUI Language	38 languages: Simplified Chinese, Traditional Chinese, English, Vietnamese, Thai, Turkish, Spanish (Latin America), Portuguese (Brazil), Spanish, Portuguese, French, German, Italian, Dutch, Polish, Czech, Hungarian, Slovak, Russian, Hebrew, Arabic, Ukrainian, Estonian, Bulgarian, Greek, Romanian, Danish, Swedish, Norwegian, Finnish, Croatian, Slovenia, Serbia, Korean, Japanese, Latvian, Lithuanian, Persian
HARD DISK	
SATA	2 SATA interfaces
Capacity	Up to 16 TB for each HDD (max HDD capacity varies with environment temperature)
Disk Group	Support
EXTERNAL INTERFACE	
Network Interface	1 RJ45 10 M/100 M/1000 M self-adaptive Ethernet Interface
Network Working Mode	Single port, not involved
USB	Rear panel: 1 x USB2.0, 1 x USB3.0
RS485	1
RS232	N/A
Alarm In	4-ch
Alarm Out	1-ch
Power Supply	DC 12 V / 3.3 A
Power Switch	N/A
Redundant Power Supply	N/A
Buzzer	Support

Specification	Value
WORKING ENVIRONMENT	
Working Temperature	-10 C to 55 C (14 F to 131 F)
Working Humidity	<= 95% RH (non-condensing)
Power Consumption (without HDD)	<= 12W
Heat Radiation	Radiator
CERTIFICATION	
Certification	CE, FCC, UL, RoHS, WEEE
CE	EN 55032, EN 61000-3-3, EN IEC 61000-3-2, EN 55035
FCC	Part15 Subpart B
NDAA Compliant	Support
FEATURE SUPPORTED	
Cruise Lines Num of Each Camera	4
Preset Num	32
N+1 Hot Spare	N/A
Fisheye Dewarping by IPC	N/A
Fisheye Dewarping by NVR (Local)	N/A
ANR	Support
Downlink ONVIF	Support (Profile S)
Uplink ONVIF	N/A
UCS (Web Socket)	N/A
NAS	Support
Ucode Basic Mode (Analog)	Support
Ucode Basic Mode (IPC)	Support
Ucode Advanced Mode (Analog)	Support
Ucode Advanced Mode (IPC)	Support
POS	N/A
Control the Dual-light of Illumivue Analog Cameras under TVI	Support
Output Mode	Support

DIMENSIONS

DVR16.3-AI dimensions: 380mm x 325.9mm x 53mm (15.0" x 12.8" x 2.1").





The United States government passed the John S. McCain National Defense Authorization Act for the 2019 fiscal year on August 13, 2018 (NDAA 2019). This act specifies the budget, expenditures and policies of the United States Department of Defense, and prohibits the purchase and use of specific electronic security products manufactured and supplied by specific companies based in China.

We are aware of the NDAA and abide by the stipulations set forth in this regulation. Illumivue is always committed to providing products of the highest standards while ensuring compliance with project requirements.

Our goal is to continue providing only the best equipment we can. Safety and security are our top priority, and we sincerely appreciate all partners' support and patience.

WARRANTY

All Illumivue products come with a 3-year limited liability warranty covering parts and labor repairs on components found defective in material or workmanship under normal use. This warranty does not apply to products that have been abused, modified, or disassembled, and is honored only through authorized resellers — not through non-authorized online sellers.

Products that fail under conditions outside this coverage will be repaired at the current price of parts and labor. Repairs are warranted for 90 days from the date of reshipment to the buyer. Units delivered by mail travel at the customer's risk unless insured. No unit will be accepted without a return authorization number, and proof of sale may be required to claim warranty.