



# GE-NR1220/IBP16

2HDD, 20CH, PSE

*Lite series*



## KEY FEATURES

- Up to 20-ch IP camera accesses
- Incoming/Outgoing bandwidth: 160Mbps/64Mbps
- S+265, H.265, S+264, H.264 video formats
- Max. decoding capability: 8MP (30fps)×2 or 1080P(30fps)×8
- 16-Ch synchronous playback
- Up to 10 TB capacity for each HDD
- HDMI output at up to 4K resolution
- Simultaneous HDMI and VGA outputs
- 1×RJ-45, 10/100/1000 Mbps self-adaptive Ethernet port
- Support cloud upgrade
- S+ 265 compression effectively reduces the storage space by up to 75%
- PoE interface, 16×RJ45, 10/100 Mbps self-adaptive Ethernet port



## SPECIFICATIONS

| Intelligent Analytics        |                                                                                                                                                                                                                                                                                                                                                                      |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AI by Camera                 | Tripwire; Double Tripwire; Perimeter; Object Abandon; Object Missing; Loiter; Running; Parking; Heatmap; Video Abnormal; Audio Abnormal; On Duty Detection; Crowd Detection; Safety Helmet Detection; People Counting; Link to Tracking; Smoke and Fire Detection; Environmental Temperature Measurement; Face Detection; Smart Motion; Human/Vehicle Classification |
| VCA Search                   | Heatmap; Early-warning Search; Behavior Search; Thermographic Retrieval; Duty Search; Face Search                                                                                                                                                                                                                                                                    |
| Storage                      |                                                                                                                                                                                                                                                                                                                                                                      |
| HDD Capacity                 | Up to 10 TB capacity for each HDD                                                                                                                                                                                                                                                                                                                                    |
| Disk Group                   | 2 Disk Group                                                                                                                                                                                                                                                                                                                                                         |
| Record Playback              |                                                                                                                                                                                                                                                                                                                                                                      |
| Multi-channel Playback       | 16                                                                                                                                                                                                                                                                                                                                                                   |
| Record Mode                  | Manual Recording; Alarm Recording; Schedule Recording                                                                                                                                                                                                                                                                                                                |
| Storage Method               | Local HDD                                                                                                                                                                                                                                                                                                                                                            |
| Backup                       | USB storage device, Network                                                                                                                                                                                                                                                                                                                                          |
| Playback Function            | Play/Pause/Stop/Slow/Speed/Backwards 30s/Forwards 30s/Full Screen/Backup (Video Editing)/Step/ Digital Zoom                                                                                                                                                                                                                                                          |
| Dual Stream Record           | Yes                                                                                                                                                                                                                                                                                                                                                                  |
| Video and Audio              |                                                                                                                                                                                                                                                                                                                                                                      |
| Access Channel               | 20                                                                                                                                                                                                                                                                                                                                                                   |
| Incoming Bandwidth           | 160Mbps                                                                                                                                                                                                                                                                                                                                                              |
| Outgoing Bandwidth           | 64Mbps                                                                                                                                                                                                                                                                                                                                                               |
| Resolution                   | 8MP/6MP/5MP/4MP/3MP/1080P/UXGA/720P/VGA/4CIF/DCIF/2CIF/CIF/QCIF                                                                                                                                                                                                                                                                                                      |
| Preview Decoding Capability  | 8MP(30fps)×2, 6MP(30fps)×2, 5MP(30fps)×3, 4MP(30fps)×4, 3MP(30fps)×5, 1080P(30fps)×8, 720P(30fps)×16, 4CIF(30fps)×20; *: The length or width of camera resolution (each track) cannot exceed 4096 pixels.                                                                                                                                                            |
| Playback Decoding Capability | 8MP(30fps)×2, 6MP(30fps)×2, 5MP(30fps)×3, 4MP(30fps)×4, 3MP(30fps)×5, 1080P(30fps)×8, 720P(30fps)×16                                                                                                                                                                                                                                                                 |
| Third-party Camera Access    | ONVIF; RTSP                                                                                                                                                                                                                                                                                                                                                          |
| HDMI Output                  | HDMI: 1024×768(60Hz), (720P)1280×720(50Hz/60Hz), 1280×800(60Hz), 1440×900(60Hz), (1080P)1920×1080(50Hz/60Hz), (2K)2560×1440(30Hz), (4K)3840×2160(30Hz)                                                                                                                                                                                                               |
| VGA Output                   | VGA: 1024×768(60Hz), (720P)1280×720(50Hz/60Hz), 1280×800(60Hz), 1440×900(60Hz), (1080P)1920×1080(50Hz/60Hz)                                                                                                                                                                                                                                                          |
| Multi-screen Display         | Simultaneous Output:<br>VGA: 1/2/3/4/5/6/7/8/9/10/12/13/16/20A/20B/20C/20D/25<br>HDMI: 1/2/3/4/5/6/7/8/9/10/12/13/16/20A/20B/20C/20D/25                                                                                                                                                                                                                              |
| Audio Output                 | 1-ch, RCA (Linear, 1 KΩ)                                                                                                                                                                                                                                                                                                                                             |
| Audio Input                  | 1-ch, 3.5mm                                                                                                                                                                                                                                                                                                                                                          |
| Two-Way Audio                | 1-ch, 3.5mm, using the audio input                                                                                                                                                                                                                                                                                                                                   |
| Compression                  |                                                                                                                                                                                                                                                                                                                                                                      |
| Video Compression            | S+265; H.265; S+264; H.264                                                                                                                                                                                                                                                                                                                                           |
| Audio Compression            | G711A; G711U; AAC; ADPCM_DIV4                                                                                                                                                                                                                                                                                                                                        |
| Stream Type                  | Video; Video & Audio                                                                                                                                                                                                                                                                                                                                                 |

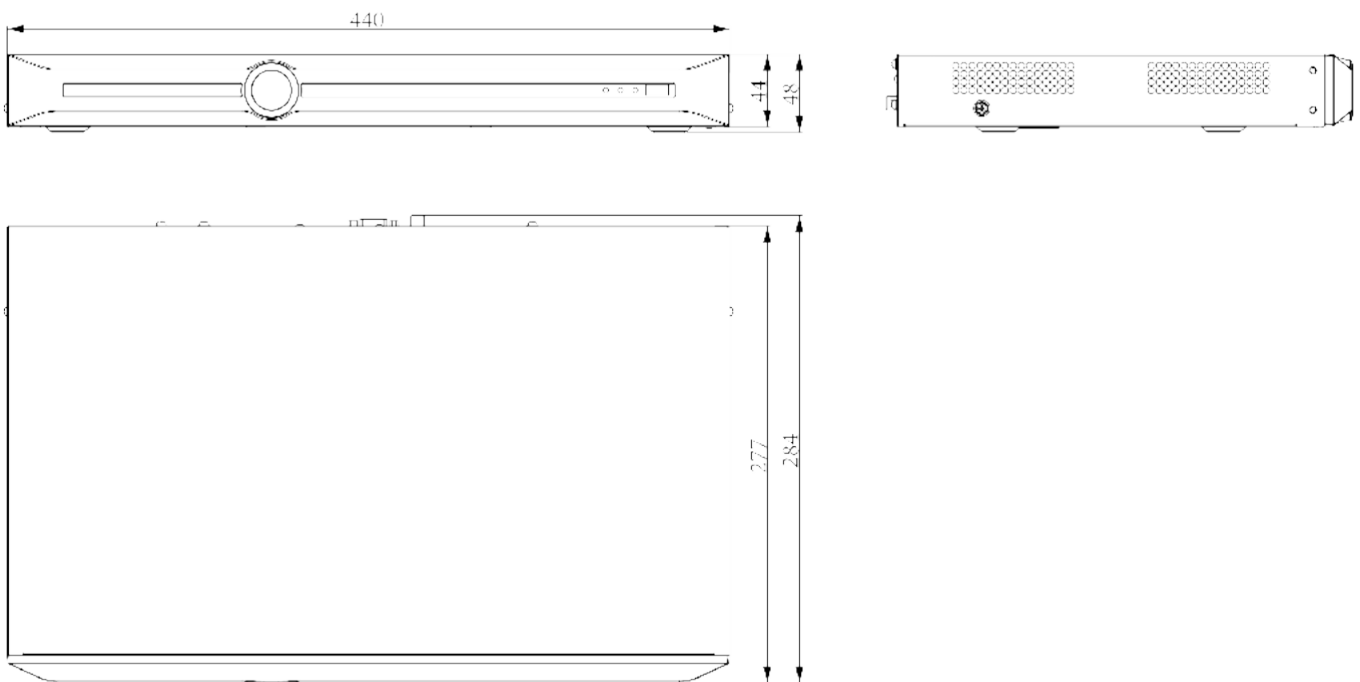


| External Port         |                                                                                                                                                                                                                                                                               |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| USB                   | 2×USB2.0                                                                                                                                                                                                                                                                      |
| HDMI                  | 1×HDMI (supports up to 4K resolution output)                                                                                                                                                                                                                                  |
| VGA                   | 1×VGA                                                                                                                                                                                                                                                                         |
| Network Interface     | 1×RJ-45, 10/100/1000 Mbps self-adaptive Ethernet port                                                                                                                                                                                                                         |
| SATA                  | 2×SATA interface                                                                                                                                                                                                                                                              |
| Alarm I/O             | 4-ch, TTL inputs, 3mA, 3.3VDC; 1-ch, relay output, 1A, 24VDC                                                                                                                                                                                                                  |
| Network               |                                                                                                                                                                                                                                                                               |
| Protocols             | 802.1X; ARP; DDNS; DHCP; DNS; Easy DDNS; FTP; HTTP; HTTPS; ICMP; IGMP; IPv4; IPv6; Multicast; NFS; NTP; PPPoE; RTCP; RTP; RTSP; SMB/CIFS; SMTP; SNMP v1/v2/v3; SRTP; SSH; SSL; TLSv1.2; TCP/IP; UDP; Unicast; UPnP                                                            |
| System Compatibility  | ONVIF(Profile S/T/G); RTSP; CGI; SDK                                                                                                                                                                                                                                          |
| Client                | Golden Eye VMS                                                                                                                                                                                                                                                                |
| Web                   | IE10+; Firefox52+; Edge89+; Safari11+; Chrome57+                                                                                                                                                                                                                              |
| Alarm                 |                                                                                                                                                                                                                                                                               |
| General Alarm         | Motion Detection; Mask Alarm; Alarm Input(IPC); Alarm Input(NVR); Manual Alarm                                                                                                                                                                                                |
| Exceptions Alarm      | Video Loss; IP Conflict; MAC Conflict; Network Disconnected; No Disk; Illegal Access; Disk group space alert; Disk Full; Disk R/W Error; Recording Abnormal; Abnormal found in smart of disk; Abnormal temperature of the disk; PoE Overload; Voltage Alarm(IPC); RTC Failure |
| Face Detection        |                                                                                                                                                                                                                                                                               |
| Face Attributes       | Gender; Age                                                                                                                                                                                                                                                                   |
| POE                   |                                                                                                                                                                                                                                                                               |
| PoE Interface         | 16×RJ45, 10/100 Mbps self-adaptive Ethernet port                                                                                                                                                                                                                              |
| PoE Budget            | 200W                                                                                                                                                                                                                                                                          |
| Power per PoE Port    | 30W                                                                                                                                                                                                                                                                           |
| Standard              | IEEE 802.3 af/at                                                                                                                                                                                                                                                              |
| General               |                                                                                                                                                                                                                                                                               |
| Web Client Language   | Simple Chinese; Traditional Chinese; English; Spanish; Korean; Italian; Turkish; Russian; Thai; French; Polish; Dutch; Hebrew; Arabic; Vietnamese; German; Ukrainian; Portuguese; Albanian                                                                                    |
| Operating Temperature | -10°C~+55°C (+14°F~+131°F)                                                                                                                                                                                                                                                    |
| Operating Humidity    | 10%~90%RH (non-condensing)                                                                                                                                                                                                                                                    |
| Storage Temperature   | -20°C~+60°C (-4°F~+140°F)                                                                                                                                                                                                                                                     |
| Power Consumption     | <10W(without HDD&without PoE)                                                                                                                                                                                                                                                 |
| Power Supply          | 100~240V AC                                                                                                                                                                                                                                                                   |
| Boundary Dimensions   | 440(L)277(W)47.5(H)mm                                                                                                                                                                                                                                                         |
| Package Dimensions    | 510(L)150(W)385(H)mm                                                                                                                                                                                                                                                          |
| Package Kit           | Network Video Recorder; Screw Pack; Mouse; European Standard Power Cord; 2×Ear Plate; 2×SATA Hard Disk Data Cable; 1×SATA Power Cord                                                                                                                                          |
| Net Weight            | 3 kg                                                                                                                                                                                                                                                                          |
| Gross Weight          | 4.35 kg                                                                                                                                                                                                                                                                       |

**\*Design and specifications are subject to change for product improvements without prior notice\***



## DIMENSIONS (Unit: mm)



## Physical Interfaces

