

# LRN-1610S

16CH 5МП сетевой видеорегистратор с PoE коммутатором



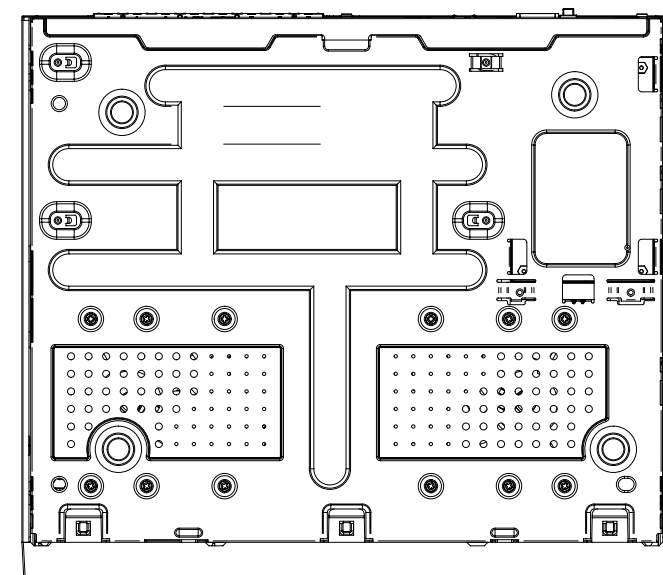
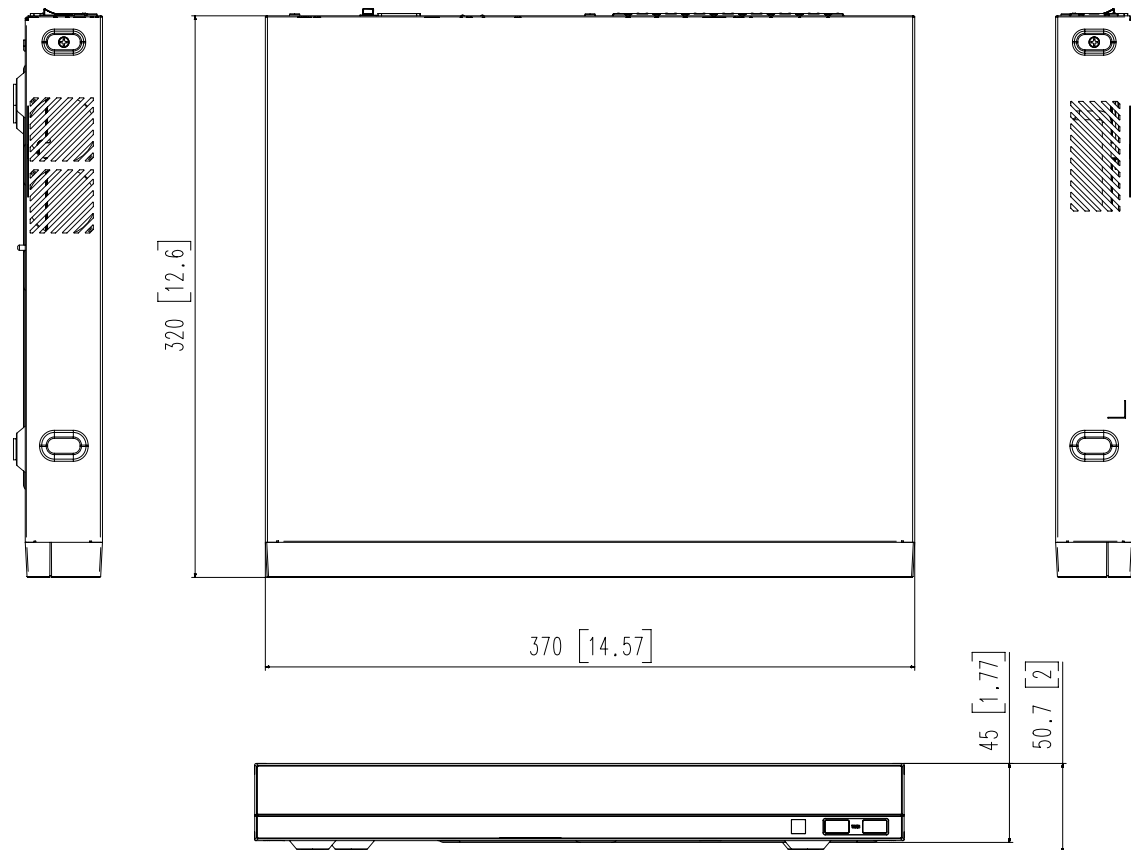
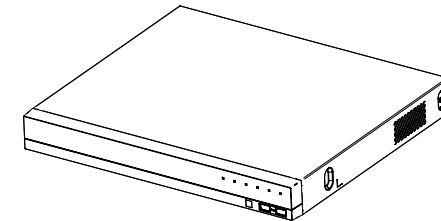
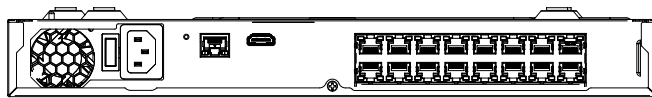
## Key Features

- До 16 каналов, 5 Мп
- Поддержка кодеков H.265, H.264, MJPEG
- Скорость записи сетевой камеры 100 Мбит/с
- 16 портов PoE с поддержкой Plug & play
- До 2 жестких дисков SATA (макс. 12 Тб)
- Локальный монитор HDMI
- Поддержка соединения P2P (подключение по QR-коду)

| Display          |                       |                                                                                                                                                                                                     |
|------------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Network camera   | Inputs                | Max. 16CH                                                                                                                                                                                           |
|                  | Resolution            | 5MP ~ CIF                                                                                                                                                                                           |
|                  | Protocols             | Wisenet, ONVIF                                                                                                                                                                                      |
| Decoding         | Local Display         | HDMI: 1920x1080, 1280x720                                                                                                                                                                           |
|                  | Resolution            | 5MP(90fps), 3MP(120fps), 2MP(2400fps), 720p(480fps), D1(480fps)                                                                                                                                     |
| Performance      |                       |                                                                                                                                                                                                     |
| Record           | Compression           | H.265, H.264, MJPEG                                                                                                                                                                                 |
|                  | Recording Bandwidth   | Max. 100Mbps                                                                                                                                                                                        |
|                  | Resolution            | 5MP ~ CIF                                                                                                                                                                                           |
|                  | Mode                  | Normal, Schedule(Continuous/Event), Event (Pre/Post), Dual track Recording                                                                                                                          |
|                  | Event Trigger         | Alarm Input, Video Loss, Camera Event(Alarm, MD, Video Analytics, Defocus)                                                                                                                          |
|                  | Event Action          | e-Mail, PTZ Preset, Buzzer, Monitor Out                                                                                                                                                             |
| Search & Play    | Playback Bandwidth    | Max. 32Mbps(16CH simultaneously)                                                                                                                                                                    |
|                  | User                  | Max. 4 Users (Local 1, Remote 3)                                                                                                                                                                    |
|                  | Simultaneous playback | Max. 16CH(Network)<br>Max. 8CH(Local Monitor)                                                                                                                                                       |
|                  | Fisheye Dewarping     | WEB / CMS / Mobile                                                                                                                                                                                  |
| Storage          | Supported HDD         | Up to 6TB                                                                                                                                                                                           |
|                  | HDD Slot              | SATA 2ea(Max. 12TB)                                                                                                                                                                                 |
| Backup           | File backup           | BU/Exe(GUI), JPG/AVI(Network)                                                                                                                                                                       |
|                  | Function              | Multi channel(Upto 8CH) Play, Date-Time/Title display                                                                                                                                               |
| Network          |                       |                                                                                                                                                                                                     |
| Protocol         |                       | IPv4, IPv6, TCP/IP, UDP/IP, RTP (UDP), RTP (TCP), RTSP, NTP, HTTP, DHCP (Server, Client), PPPoE, SMTP, ICMP, IGMP, ARP, DNS, DDNS, uPnP, HTTPS, SNMP, ONVIF (Profile-S), SUNAPI(Server, Client)     |
| DDNS             |                       | Wisenet DDNS                                                                                                                                                                                        |
| Audio            | Input/Output          | 16CH(network)                                                                                                                                                                                       |
|                  | Compression           | G.711, G.726, AAC(16/48KHz)                                                                                                                                                                         |
|                  | Audio Communication   | 2-Way                                                                                                                                                                                               |
| Max Remote Users |                       | Search(3), Live Unicast(10), Multicast(20)                                                                                                                                                          |
| Security         |                       | HTTPS(SSL) Login Authentication<br>Digest Login Authentication<br>IP Address Filtering<br>User access log<br>802.1X Authentication(EAP-TLS, EAP-LEAP)<br>Device Certificate(Hanwha Techwin Root CA) |
| Viewer Software  |                       | SSM, Webviewer, Smart Viewer, Wisenet mobile<br>Support SDK/CGI(SUNAPI) for integration to 3'rd party VMS                                                                                           |
| Functions        |                       |                                                                                                                                                                                                     |

|                       |                   |                                                                                                                                                                                                                                                                                                       |
|-----------------------|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Camera Setup          | Item              | IP address, Add profile edit, Bitrate, Compression, GOP, Quality, Camera MD setup, Wisestream, Dynamic GOV/FPS, VA Setup<br>Camera video setup (Simple focus, Brightness/Contrast, Flip/Mirror, IRIS, WDR, D&N, SSNR, Shutter, SSDR, DIS), Fisheye Dewarping Mode, Hallway View Setup, Camera Webpage |
| PTZ                   | Control           | Via GUI, Webviewer                                                                                                                                                                                                                                                                                    |
| Smart phone           | Support Model     | iOS, Android                                                                                                                                                                                                                                                                                          |
|                       | Protocol Support  | RTP, RTSP, HTTP, HTTPS, CGI(SUNAPI)                                                                                                                                                                                                                                                                   |
|                       | Control           | Live(Multi-Profile Support), Playback                                                                                                                                                                                                                                                                 |
|                       | Max. Remote Users | Search(3), Live Unicast(10)                                                                                                                                                                                                                                                                           |
| Redundancy            | ARB               | Support                                                                                                                                                                                                                                                                                               |
| Easy configuration    |                   | P2P(QR code)                                                                                                                                                                                                                                                                                          |
| <b>Interface</b>      |                   |                                                                                                                                                                                                                                                                                                       |
| HDMI                  |                   | 1EA                                                                                                                                                                                                                                                                                                   |
| Ethernet              |                   | RJ-45(10/100/1000BASE-T) x 1<br>RJ-45(PoE+) x 16                                                                                                                                                                                                                                                      |
| USB                   |                   | 2EA(Front 1, Rear 1)                                                                                                                                                                                                                                                                                  |
| Power inlet           |                   | AC 1EA                                                                                                                                                                                                                                                                                                |
| <b>System</b>         |                   |                                                                                                                                                                                                                                                                                                       |
| System Control        |                   | Mouse, IR remocon, Web                                                                                                                                                                                                                                                                                |
| Language              |                   | English, French, German, Italian, Spanish, Russian, Turkish, Polish, Dutch, Swedish, Czech, Portuguese, Danish, Rumanian, Serbian, Croatian, Hungarian, Greek, Norwegian, Finnish, Korean, Chinese, Japanese, Thai, Vietnamese                                                                        |
| <b>Environmental</b>  |                   |                                                                                                                                                                                                                                                                                                       |
| Operating Temperature |                   | 0°C to +40°C(32°F to 104°F)                                                                                                                                                                                                                                                                           |
| Operating Humidity    |                   | 20% ~ 85% RH                                                                                                                                                                                                                                                                                          |
| <b>Electrical</b>     |                   |                                                                                                                                                                                                                                                                                                       |
| Power Input           |                   | 100~240VAC ± 10%                                                                                                                                                                                                                                                                                      |
| Power Consumption     |                   | Max. 158.2W(2HDDs, PoE on)<br>Max. 34.6W(2HDDs, PoE off)                                                                                                                                                                                                                                              |
| PoE Budget            |                   | Max. 130W                                                                                                                                                                                                                                                                                             |
| <b>Mechanical</b>     |                   |                                                                                                                                                                                                                                                                                                       |
| Color / Material      |                   | Black / Metal                                                                                                                                                                                                                                                                                         |
| Dimension (WxHxD)     |                   | W370.0 x H44.0 x D320 mm (14.57" x 1.73" x 12.6") (1U)                                                                                                                                                                                                                                                |
| Weight                |                   | 2.79Kg (6.15lb)                                                                                                                                                                                                                                                                                       |

- The latest product information / specification can be found at [hanwha-security.com](http://hanwha-security.com)
- Design and specifications are subject to change without notice.
- Wisenet is the proprietary brand of Hanwha Techwin, formerly known as Samsung Techwin.



|                |             |           |
|----------------|-------------|-----------|
| 3              | 파생 MODEL2   |           |
| 2              | 파생 MODEL1   |           |
| 1              | BASIC MODEL | '20.01.28 |
| No.            | MODEL NAME  | LRN-1610S |
| Unit:mm[inch]  |             | SCALE:1/1 |
| Hanwha Techwin |             |           |

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