



## LRN-810S

16CH 5MP NVR with PoE Switch

### Benefits

- Easy plug and play functionality with automatic device discovery and simple setup
- Improved Install wizard for easy configuration
- Easily connect to NVR from anywhere with your smartphone without having to set up a complex network
- Smart search using camera metadata to narrow search results
- USB keyboard supported
- Records high resolution stream and VGA stream at the same time, avoiding playback delays due to narrow band network
- Remote firmware upgrades provided

### Key Features

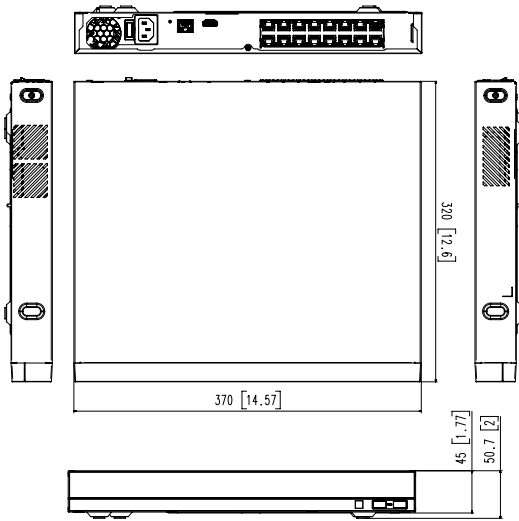
- Up to 16CH 5MP
- H.265, H.264, MJPEG codec
- 100Mbps network camera recording
- Plug & play by 16 PoE ports
- Up to 2 SATA (12TB)
- HDMI / VGA local monitor
- P2P service (QR code connect)
- Dual Track Recording

## LRN-1610S

| LRN-1610S                |   |
|--------------------------|---|
| <b>DISPLAY</b>           |   |
| <b>NETWORK CAMERA</b>    |   |
| Inputs                   | Max. 16CH   |
| Resolution               | 5MP ~ CIF   |
| Protocols                | Wisenet, ONVIF  |
| <b>DECODING</b>          |   |
| Local Display            | HDMI: 1920x1080, 1280x720   |
| Resolution               | 5MP(90fps), 3MP(120fps), 2MP(2400fps), 720p(480fps), D1(480fps)   |
| <b>PERFORMANCE</b>       |   |
| <b>RECORD</b>            |   |
| 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   |
| <b>SEARCH &amp; PLAY</b> |   |
| 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  |
| <b>STORAGE</b>           |   |
| Supported HDD            | Up to 6TB   |
| HDD Slot                 | SATA 2ea(Max. 12TB)   |
| <b>BACKUP</b>            |   |
| File backup              | BU/Exe(GUI), JPG/AVI(Network)   |
| Function                 | Multi channel(Upto 8CH) Play, Date-Time/Title display   |
| <b>NETWORK</b>           |   |
| 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  |
| <b>AUDIO</b>             |   |
| 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   |
| Viewer Software          | Digest Login Authentication   |
| <b>FUNCTIONS</b>         |   |
| <b>CAMERA SETUP</b>      |   |
| Item                     | IP address, Add profile edit, Bitrate, Compression, GOP, Quality, Camera MD setup, Wisestream, Dynamic GOV/FPS, VA Setup Camera video setup (Simple focus, Brightness/Contrast, Flip/Mirror, IRIS, WDR, D&N, SSNR, Shutter, SDR, DIS), Fisheye Dewarping Mode, Hallway View Setup, Camera Webpage |
| <b>PTZ</b>               |   |
| Control                  | Via GUI, Webviewer  |
| <b>SMART PHONE</b>       |   |
| 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)   |

## Dimensions

Unit:mm(inch)



## LRN-1610S

### REDUNDANCY

|                    |              |
|--------------------|--------------|
| ARB                | Support      |
| Easy configuration | P2P(QR code) |

### INTERFACE

|             |  |
|-------------|--|
| HDMI        | 1EA  |
| VGA         | 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   |

### SYSTEM

|                |  |
|----------------|--|
| System Control | Mouse, IR remote, 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 |

### ENVIRONMENTAL

|                       |                             |
|-----------------------|-----------------------------|
| Operating Temperature | 0°C to +40°C(32°F to 104°F) |
| Operating Humidity    | 20% ~ 85% RH                |

### ELECTRICAL

|                   |  |
|-------------------|--|
| Power Input       | 100~240VAC±10%   |
| Power Consumption | Max. 158.2W(2HDDs, PoE on)<br>Max. 34.6W(2HDDs, PoE off) |
| PoE Budget        | Max. 130W  |

### MECHANICAL

|                   |  |
|-------------------|--|
| 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.