System Overview

(Visual intercom, Call for help, Public broadcast, Audio & Video recording, Information publish)

- Based on the technology of LAN transmission, it is a system integrated with alarm, intercom, monitor, broadcast, visual and AV recording. And it can be applied in various public places, specially well used for the management of prisons, armies and schools, elevators, etc.

Functions and Features

- 720P HD camera, two-way visual intercom, broadcast, audio and video recording, alarm linkage
- Multiple management, server co-location, call to upload, call forwarding, call hold
- Cycle monitoring, shutdown transfer, call data privacy, call police for help, bi-amplification output

Connection Diagram
NLS-60
60-call Master Station
(15/30/90/120/300/600/10000-Call Optional)

10.2 inch digital true color screen, capacitive touch screen, 720P HD camera. Usually be placed on the desktop or operation platform in the intercom management center. Support the function of multiple management, it could be used as the superior management master station.

**Technical Parameters**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Audio sampling rate</td>
<td>16K~48KHz</td>
</tr>
<tr>
<td>Harmonic distortion</td>
<td>&lt; 0.5%</td>
</tr>
<tr>
<td>Audio stream</td>
<td>16Kb~192Kb</td>
</tr>
<tr>
<td>Video stream</td>
<td>96Kb~512Kb</td>
</tr>
<tr>
<td>External interface</td>
<td>RS-485</td>
</tr>
<tr>
<td>Power</td>
<td>&lt; 7W</td>
</tr>
<tr>
<td>Work temperature</td>
<td>-20~+80</td>
</tr>
<tr>
<td>Input voltage</td>
<td>DC14V</td>
</tr>
<tr>
<td>Working humidity</td>
<td>10%~90%</td>
</tr>
<tr>
<td>Network interface</td>
<td>standard RJ45</td>
</tr>
<tr>
<td>Network Protocols</td>
<td>TCP/IP, UDP, IGMP</td>
</tr>
<tr>
<td>Broadcast audio formats</td>
<td>MP3, WAV</td>
</tr>
<tr>
<td>Built-in loudspeaker</td>
<td>Impedance power: 20Ω, 1W</td>
</tr>
<tr>
<td>Audio output level</td>
<td>(peak to peak) &lt; 3V</td>
</tr>
<tr>
<td>Audio input level</td>
<td>(peak to peak) &lt; 1V</td>
</tr>
<tr>
<td>Alarm output port</td>
<td>DC14V 500mA (MAX)</td>
</tr>
<tr>
<td>Dimension</td>
<td>210x330x118mm (LxWxH)</td>
</tr>
</tbody>
</table>

**Product Parameters**

**NLS-60**

**60-call Master Station**

(15/30/90/120/300/600/10000-Call Optional)

**Functions and Features**

- **Duplex Intercom**
  - Duplex visual intercom with the IP master station.

- **Co-location**
  - The substations of the master station can be assigned to other superior master station for management.

- **Call Forwarding Function**
  - The call will be forwarded to the superior master station when it is not answered by the substation within a designated time.

- **Hold Call**
  - Can hold the call, then choose the call from other substations.

- **Play Files**
  - The pre-recorded audio files can be played to the substation which is in a call.

- **Busy Call Transfer**
  - Available to transfer the substation call information to the designated master station when it calls a busy master station.

- **Command Mode**
  - Commanders can announce command to all the members, but only commanders can receive the response from the members.

- **Broadcasting Function**
  - Can broadcast to all the substations in the whole region or partitioned areas with MP3 files, and scheduled broadcast and fire control broadcast all available. Support announce broadcast and external audio input broadcast.

- **Shutdown Transfer**
  - If the called master station is powered off or not reached, the system can transfer the call to other superior management master station.

- **Data Security**
  - Encrypt data transmission to avoid being taped and ensure call safety.

- **High Definition Video**
  - Display HD video in full screen, and provide the data of video to display in large screen.

- **Status Alert**
  - Red and green colors can be prompted the status of substation’s alarm or intercom, the remark information can be added in each channel.

- **Call Transfer Function**
  - Can transfer the substation call to any other master station in the system.

- **Monitoring and Surveillance**
  - Available to do cycle monitoring & surveillance or separate monitoring & surveillance substation.

- **Fast switch call and Announce**
  - Support one button fast switch the substation’s online call and announce in all area, can recover the call after finishing it.

- **Conference Mode**
  - When talking with the member, other members can hear the speech, implement the function of conference call.

- **Noise Alarm**
  - Master station can receive alarm when the substation is too noisy.

- **Period of time to upload**
  - Can set the uploaded time for overtime no answer in different period of time.

- **Alarm Linkage**
  - Connect with other platforms via TCP when alarms, such as open the CCTV systems

- **Online Detection**
  - Do real-time online detection for substation directly, very convenient for testing, repairing and maintenance.
**Audio and Video Terminal**

720P HD camera, aluminium alloy panel, stainless steel hex screw, with professional installation tools, dust-proof, anti-tamper, anti-destruction by violence.

### Functions and Features

- **Call/Alarm**
  Call/ alarm to the IP master station.

- **Monitor**
  Receive the monitor information of the IP master station, can be used as a monitor headphone.

- **Broadcast**
  Receive MP3 files or announcement from the master station via network.

- **Forced Switchover**
  Force switch to max volume broadcast automatically when fire alarm happens.

- **Tamper Alarm**
  Alarm to master station automatically when tamper happens.

- **Data Security**
  Encrypt data transmission to avoid being taped and ensure call safety.

### Technical Parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Network interface</td>
<td>Standard RJ45</td>
</tr>
<tr>
<td>Input Voltage</td>
<td>DC12V~ 18V</td>
</tr>
<tr>
<td>Audio sampling rate</td>
<td>16K~48K Hz</td>
</tr>
<tr>
<td>Audio stream</td>
<td>16K~192Kb</td>
</tr>
<tr>
<td>Video stream</td>
<td>96Kb~512Kb</td>
</tr>
<tr>
<td>Output frequency</td>
<td>20 Hz~ 20KHz</td>
</tr>
<tr>
<td>Harmonic distortion</td>
<td>&lt; 0.5%</td>
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<tr>
<td>SNR</td>
<td>&gt; 70dB</td>
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<tr>
<td>CameraHD 720P</td>
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<tr>
<td>MIC input sensitivity</td>
<td>10mV</td>
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<tr>
<td>Audio mode</td>
<td>16 CD stereo sound</td>
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<tr>
<td>Power</td>
<td>&lt; 4W</td>
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<tr>
<td>Working humidity</td>
<td>10% ~ 90%</td>
</tr>
<tr>
<td>Network protocol</td>
<td>TCP/IP , UDP, IGMP</td>
</tr>
<tr>
<td>Broadcast audio formats</td>
<td>MP3, WAV</td>
</tr>
<tr>
<td>Built-in speaker impedance</td>
<td>200, 2W</td>
</tr>
<tr>
<td>Working temperature</td>
<td>-10 ~ +70</td>
</tr>
<tr>
<td>Dimension</td>
<td>180x90x28mm(LxWxH)</td>
</tr>
</tbody>
</table>

### Related Products

- **NLS-POE**
  POE Power Separator
  - External substation, available to provide power to network substations by network cables.

- **NLS-5/10**
  5/10CH Intercom Master Station
  - Available to call, monitor, intercom with 5/10CH substations, etc.

- **NW-P186**
  Power box
  - 110W, provide power supply to substations, included 18V 5.6A switch power supply.

- **NLS-AW3-CS**
  Alarm Box
  - Metal protective housing, with camera and alarm lamp; can connect with 3PCS analog cameras; waterproof, moisture proof, dust proof; can be used as broadcast terminal; a single bond to call and intercom.

- **NLS-SE**
  Address box
  - Necessary for the whole system when the IP devices are less than 500PCS.

- **NLS-DE**
  Computer type address box
  - Optional for the whole system when IP devices are more than 500PCS.
Product Parameters

LCD Touch Screen
Audio & Video Terminal

10.2 inch digital true color screen, 720P HD camera, aluminium alloy panel, available to connect with 1CH analog camera, available to set 1-20 call buttons and to call 1-20 visual master stations or substations.

Functions and Features

- **Call/Alarm**
  Call/ alarm to the IP master station.

- **Monitor**
  Receive the monitor information of the IP master station, can be used as a monitor headphone.

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  Receive MP3 files or announcement from the master station via network.

- **Forced Switchover**
  Force switch to max volume broadcast automatically when fire alarm happens.

- **Data Security**
  Encrypt data transmission to avoid being taped and ensure call safety.

- **Duplex Intercom**
  Duplex visual intercom with the IP master station.

- **Information Publish**
  Receive, show the information released by the master station software.

- **Online Detection**
  Do real-time online detection for substation directly, very convenient for testing, repairing and maintenance.

- **Command Control**
  Receive the monitor information of the master station to observe the patients' condition. Choose the TV channel with the hand-hold controller

- **Alarm Linkage**
  Connect with other platforms via TCP when alarms, such as open the CCTV systems

Technical Parameters

<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Transmission rate: 10M/100Mbps</td>
<td>Screen Size: 10.2 inches</td>
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<tr>
<td>Video Stream: 96K~ 512Kb</td>
<td>Camera: HD 720P</td>
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<tr>
<td>Audio Sampling Rate: 16K~ 48KHz</td>
<td>Audio Mode: 16 stereo audio</td>
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<tr>
<td>Audio Stream: 16K~ 192Kb</td>
<td>SNR : &gt; 70dB</td>
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<tr>
<td>Harmonic Distortion : 0.5%</td>
<td>MIC input sensitivity: 10mV</td>
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<tr>
<td>Power: &lt; 9W</td>
<td>AV storage format: H.264</td>
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<tr>
<td>Working humidity: 10%~ 90%</td>
<td>Input voltage: DC12V~18V</td>
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<tr>
<td>Audio Output Frequency: 20Hz~20KHz</td>
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</tr>
<tr>
<td>Speaker Impedance: Power: Dual Channel 8Q, 1W</td>
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</tr>
<tr>
<td>Screen Resolution: 1024 x 600 pixel</td>
<td></td>
</tr>
<tr>
<td>Operating temperature: -20 ~ +80</td>
<td></td>
</tr>
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<td>Dimension: 325x185x68mm (LxWxH)</td>
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