KX-NT700AL
CONFERENCE RECORDING SPEAKERPHONE SYSTEM

the voice of business

Panasonic
ideas for life
The KX-NT700AL is an advanced conferencing solution that can connect over IP networks or even the public switched telephone network. This Multi-party IP Conferencing Phone supports Hi-Definition sound and makes communicating as simple as a face-to-face meeting. It even connects with standard office telephone systems for seamless inter-working.

KX-NT700AL, a valuable asset to help you collaborate across your board rooms or around the globe.

**Main Feature**

**High Definition Voice Quality**
Using a wideband speech codec (G.722 16kHz sampling), audio during VoIP is transmitted in high quality, making conferences seem “face-to-face”.

**Full Duplex Acoustic Echo-Canceller**
Owing to the latest echo cancelling technology, conversations are clearer than on analogue conference calls.

**Easy to Carry & Setup**
The KX-NT700AL is light and simple to set up.

**Conference Recording with SD Memory card**
Calls can be recorded on SD card. PCM (pulse code modulation) recording is used, making playback on PC simple and easy. Recording time depends on SD card capacity. A 2GB card allows about 67 hours of recording.

**3-Party Conferencing**
KX-NT700AL can simultaneously establish 1 IP channel and 1 analogue connection. And, on the IP connection, it can simultaneously connect to 2 channels for 3-party conferencing.

**Connection to Panasonic IP-PBX**
The KX-NT700AL can connect to a PBX either as a SIP extension or analogue extension.

**Support USB Audio (between the KX-NT700AL and a PC)**
The KX-NT700AL can be used as a high-quality digital speaker & microphone for your PC by connecting the KX-NT700AL to your PC through a USB cable.

Control of the sound volume, which has been tricky in Web conference calls, can be performed easily by the KX-NT700AL, thus eliminating the need for adjustments on the Web conference host side.

**Mic Noise Cut**
By cancelling out ambient noise such as the drone of a LCD projector fan, conversations are clear and conferences can proceed smoothly.

**Simple Video Conferencing System and Conference Phone Manager Application**
Conference Phone Manager bundled software supports simple video conferencing and peer to peer connection.

Furthermore, you can also simultaneously use other functions on your PC such as application sharing and whiteboard.

This allows you to refer to the same documents or information on both ends of the line, making your enhanced video conference call more effective.

**Speech Speed Conversion**
Other parties are slowed to a loud and clear speaking speed by expanding audible segments and compressing inaudible segments without altering the overall duration of spoken tracts during conversation.

**How the communication speed is changed**

![Communication Speed Diagram]

- Normal communication
- Hello
- Silent part
- Sound part
- Hello
- Sound part
- The total time length is about the same

**How noise reduction works**

![Noise Reduction Diagram]

- Environment noises Fan noise, etc.
- Eliminating noise components
- Clear voice communication

High Definition Voice Quality
Using a wideband speech codec (G.722 16kHz sampling), audio during VoIP is transmitted in high quality, making conferences seem "face-to-face".

Full Duplex Acoustic Echo-Canceller
Owing to the latest echo cancelling technology, conversations are clearer than on analogue conference calls.

Easy to Carry & Setup
The KX-NT700AL is light and simple to set up.

We want all of your meetings to seem face-to-face
Conference Recording with SD Memory Card
Conversations and voice memos can be recorded onto SD cards.

High Definition Voice Quality
Full Duplex 7kHz Audio

USB Port
Used to connect the unit to a computer with the included Conference Phone Manager software

Built-in Microphones (4 locations)
Conference speakerphone by microphone array
For best performance when using the built-in microphones, speak within about 3m of the unit.

Conferencing Phone Manager Application
You can easily have remote meetings and video conferences using shared applications.
Just by choosing the application you want to share, you can open an application on another party’s desktop.
Sharing desktops and applications
You can share the screens of general applications operated by Windows.
You can select the applications you want to share by using the operational screen of the Conferencing Phone Manager.
You can also open an application on another party’s desktop and then together refer to and discuss the same file at the same time.

The application you want to share

Select an application

Collaborate with Panasonic
Both parties can use their PC onscreen whiteboard to freely write in text and diagrams.
It is also possible to write in highlights.

The settings and operation of the IP Conferencing Phone can be controlled from a PC.
The phonebook screen is displayed when you start up the Conferencing Phone Manager.
It is easy to find and dial another party’s IP address, located in the phonebook or outgoing/incoming call history.
Simple Video Conferencing System

By connecting Conferencing Phone Manager, you can have a meeting with Simple Video Conferencing. System is as follows.

**KX-N7701 External Wired MIC**

Cord: Approximately 3m.

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### SPECIFICATIONS

<table>
<thead>
<tr>
<th>Item</th>
<th>Technical specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Analogue Line Interface</strong></td>
<td>RF11 x 1</td>
</tr>
<tr>
<td><strong>Voice Dailing</strong></td>
<td>Dial Pulse (DP), Tone (DTMF)</td>
</tr>
<tr>
<td><strong>Ethernet Interface</strong></td>
<td>10/100Base-T, Auto MDI/MDIX</td>
</tr>
<tr>
<td><strong>Transceiver type</strong></td>
<td>RJ45 x 2</td>
</tr>
<tr>
<td><strong>USB Interface</strong></td>
<td>Universal Bus x 1 USB Audio</td>
</tr>
<tr>
<td><strong>Audio Line In/Out</strong></td>
<td>2 element microphone arrays x 4 corners</td>
</tr>
<tr>
<td><strong>Microphone coverage</strong></td>
<td>Radius of 3m</td>
</tr>
<tr>
<td><strong>Range of frequency</strong></td>
<td>300Hz – 7000Hz</td>
</tr>
<tr>
<td><strong>S/N Ratio</strong></td>
<td>Above 58dB at 1kHz</td>
</tr>
<tr>
<td><strong>Display</strong></td>
<td>103 x 48 Full dot</td>
</tr>
<tr>
<td><strong>LED</strong></td>
<td>4 (dual-colored LED red &amp; blue)</td>
</tr>
<tr>
<td><strong>Volume (scroll) key</strong></td>
<td>UP, DOWN</td>
</tr>
<tr>
<td><strong>Volume key</strong></td>
<td>F, P, P, P, P</td>
</tr>
<tr>
<td><strong>Speaker volume</strong></td>
<td>Off, Low, Middle, High</td>
</tr>
<tr>
<td><strong>Microphone</strong></td>
<td>Internal microphone</td>
</tr>
<tr>
<td><strong>Dimensions (W x H x D)</strong></td>
<td>275mm x 55mm x 275mm</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>1300g</td>
</tr>
<tr>
<td><strong>Status Indicator</strong></td>
<td>LCD: Yes, Off (white)</td>
</tr>
<tr>
<td><strong>Keyboard</strong></td>
<td>0, 9, *, #</td>
</tr>
<tr>
<td><strong>Front key</strong></td>
<td>SP-Phone, Flash, Dial/ Pause, Mute/ Clear, Exit, Menu, Set, Mic Noise Cut*1</td>
</tr>
<tr>
<td><strong>Chassis</strong></td>
<td>275mm x 55mm x 275mm</td>
</tr>
<tr>
<td><strong>Power supply</strong></td>
<td>AC Adapter: PQ LV206 Input: AC120V 50Hz/60Hz</td>
</tr>
<tr>
<td><strong>Power consumption</strong></td>
<td>PoE: IEEE802.3af compliant</td>
</tr>
<tr>
<td><strong>Environment conditions</strong></td>
<td>Operating temperature: 0°C – 40°C</td>
</tr>
<tr>
<td><strong>Operating temperature</strong></td>
<td>–10°C – 50°C</td>
</tr>
<tr>
<td><strong>Relative humidity</strong></td>
<td>Less than 90% (Non-condensing)</td>
</tr>
<tr>
<td><strong>Audio Interface</strong></td>
<td>Loudspeaker</td>
</tr>
<tr>
<td><strong>Speaker volume</strong></td>
<td>8 steps</td>
</tr>
<tr>
<td><strong>Range of frequency</strong></td>
<td>300Hz – 7000Hz</td>
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<tr>
<td><strong>S/N Ratio</strong></td>
<td>Above 58dB at 1kHz</td>
</tr>
<tr>
<td><strong>Display</strong></td>
<td>LCD contrast: Yes (6-level)</td>
</tr>
<tr>
<td><strong>Status Indicator</strong></td>
<td>LCD contrast: Yes (6-level)</td>
</tr>
<tr>
<td><strong>Keypad</strong></td>
<td>Dial key: 0, 9, *, #</td>
</tr>
<tr>
<td><strong>Other key</strong></td>
<td>SP-Phone, Flash, Dial/ Pause, Mute/ Clear, Exit, Menu, Set, Mic Noise Cut*1</td>
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<tr>
<td><strong>Chassis</strong></td>
<td>Dimensions (W x H x D)</td>
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<tr>
<td><strong>Power</strong></td>
<td>Power consumption: Max 1.5W</td>
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<tr>
<td><strong>Environment conditions</strong></td>
<td>Operating temperature: 0°C – 40°C</td>
</tr>
<tr>
<td><strong>Operating temperature</strong></td>
<td>–10°C – 50°C</td>
</tr>
<tr>
<td><strong>Relative humidity</strong></td>
<td>Less than 90% (Non-condensing)</td>
</tr>
</tbody>
</table>

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1. When the microphone noise cut button is pressed, the audio quality does not change since it filters noise from audio data sent to the called party.

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### Features

- **VoIP**
  - PLC: Yes (G.711 only)
  - Silence suppression: Yes
  - CNG: No
  - Jitter buffer: Max 500ms (G.728a)
  - Packet Header compression: No
  - QoS: IEEE 802.1 P Q D, Layer 3 TOS, Diffserv

- **Network**
  - UDP, RTP, RTCP: Yes
  - IPv6: Yes
  - DHCP: Yes
  - PoE: Yes
  - Dail Tone Storage Capacity: 100
  - Mutel: 32
  - Flash: Yes
  - Pause: Yes
  - Redial: Yes
  - Factory Reset: Yes
  - Ring Patterns: 10
  - Multi Point Conferencing: 3 points
  - All/Individual Disconnect: Yes

- **Telephone**
  - Telephone: 120 Minute (64MB SD Card)
  - Number of recorded data: Maximum 100
  - New message playback: Yes
  - FF/REV/STOP: Yes
  - Skip/Repeat: Yes
  - All/Individual erase: Yes
  - Time stamp: Yes

- **Conference Recording**
  - Recording time period: 120 Minute (64MB SD Card)
  - Number of recorded data: Maximum 100
  - New message playback: Yes
  - FF/REV/STOP: Yes
  - Skip/Repeat: Yes
  - All/Individual erase: Yes
  - Time stamp: Yes

- **Speakerphone**
  - Telephone: 120 Minute (64MB SD Card)
  - Number of recorded data: Maximum 100
  - New message playback: Yes
  - FF/REV/STOP: Yes
  - Skip/Repeat: Yes
  - All/Individual erase: Yes
  - Time stamp: Yes

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### External Wired MIC

<table>
<thead>
<tr>
<th>Item</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Cable length</strong></td>
<td>3m</td>
</tr>
<tr>
<td><strong>Mute control</strong></td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Mute Status Indicator</strong></td>
<td>Yes (dual-colored LED red &amp; blue)</td>
</tr>
<tr>
<td><strong>Power</strong></td>
<td>Power supply from main unit</td>
</tr>
<tr>
<td><strong>Dimensions (W x H x D)</strong></td>
<td>54mm x 36mm x 89mm</td>
</tr>
<tr>
<td><strong>Range of frequency</strong></td>
<td>300Hz – 7000Hz</td>
</tr>
<tr>
<td><strong>S/N Ratio</strong></td>
<td>Above 58dB at 1kHz</td>
</tr>
<tr>
<td><strong>Microphone coverage</strong></td>
<td>2m</td>
</tr>
</tbody>
</table>