KX-NT700AL
CONFERENCE RECORDING SPEAKERPHONE SYSTEM

the voice of business

Panasonic
ideas for life

We want all of your meetings to seem face-to-face

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 meetings. 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.

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.
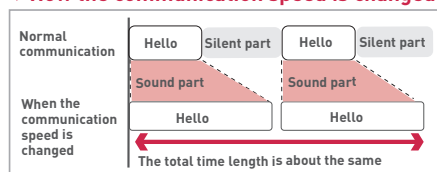
Network camera display

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

Normal communication	Hello	Silent part	Hello	Silent part
When the communication speed is changed	Sound part		Sound part	
	Hello		Hello	

The total time length is about the same

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.

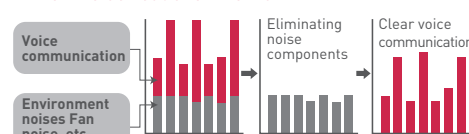### Support USB Audio (between the KX-NT700AL and a PC)

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.

▼ How noise reduction works

Voice communication

Environment noises Fan noise, etc.

Eliminating noise components

Clear voice communication

External Wired MIC Jack (EXT MIC1)

Telephone Jack (LINE)

DC Input

LAN Port (LAN)

External Wired MIC Jack (EXT MIC2)

High Definition Voice Quality
Full Duplex 7kHz Audio

USB Port
Used to connect the unit to a computer with the included Conferencing 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.

3m   3m

Audio IN/OUT Jack
⌀ 3.5mm audio input/output jack

Conference Recording with SD Memory Card
Conversations and voice memos can be recorded onto SD cards.

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CONFERENCING PHONE MANAGER APPLICATION

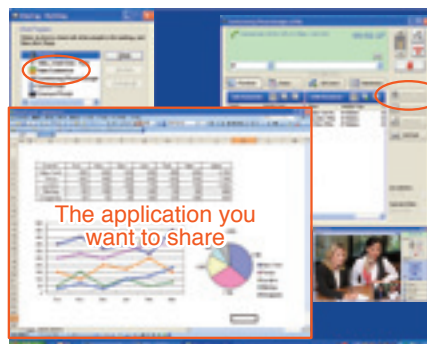You can easily have remote meetings and video conferences using shared applications.

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.

Phonebook   History
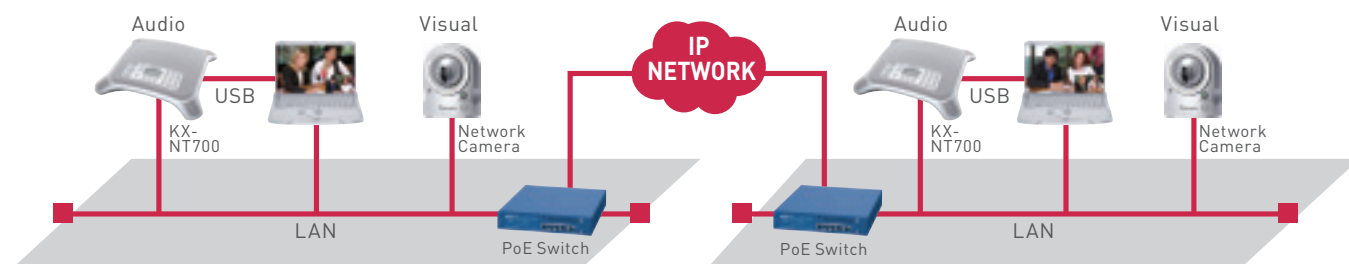
PANASONIC COMMUNICATION SOLUTIONS

Simple Video Conferencing System

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

Option

KX-NT701
External Wired MIC

Cord: Approximately 3m.

SPECIFICATIONS

Item		Technical specifications
Analogue Line Interface	I/F connector	RJ11 x 1
	Dialling	Dial Pulse (DP), Tone (DTMF)
Ethernet Interface	I/F connector	RJ45 x 1
	Transceiver type	10/100Base-T, Auto MDI/MDX
General purpose Interface	USB Interface	USB2.0 (Low/Full speed) Device Function x 1 USBAudio
	SD slot	1
	Audio Line In/Out	ø3.5mm mini-jack x 1
Microphone Interface	I/F connector	RJ9 x 2
	Interface	4 Wire (Power, GND, MIC-Mute, MIC-Signal-Input)
Audio Interface	Loudspeaker	1
	Speaker volume	8 steps
	Range of frequency	300Hz – 7000Hz
	Stereo/mono	mono
	Internal microphone	2 element microphone arrays x 4 corners
	Microphone coverage	Radius of 3m
	Range of frequency	300Hz – 7000Hz
	S/N Ratio	Above 58dB at 1kHz
Display	LCD resolution	103 x 48 Full dot
	LCD back light	Yes (white)
	LCD contrast	Yes (6-level)
Status Indicator	LED	4 (dual-colored LED red & blue)
Keypad	Function key	F1, F2, F3
	Volume (scroll) key	UP, DOWN
	Dial key	0- 9,*,#
	Other key	SP-Phone, Flash, Redial / Pause, Mute / Clear, Exit, Menu, Set, Mic Noise cut*1
Chassis	Dimensions (W×H×D)	275mm x 55mm x 275mm
	Weight	1300g
Power supply	AC Adaptor	PQ LV206 Input : AC120 V60HZ PQ LV206AL Input : AC220V-240V 50HZ/60HZ PQ LV216 Input : AC220V-240V 50HZ/60HZ Output : DC9V 750mA
	PoE	IEEE802.3af compliant
Power consumption		Max 6.5W
Environment conditions	Operating temperature	0°C – 40°C
	Storage temperature	−10°C – 50°C
	Relative humidity	Less than 90% (non-condensing)

Item		Features
Signalling Protocol	SIP	RFC3261 and companion RFCs
VoIP	CODEC	G.711(A/u), G.729a, G.722 (64kbps)
	PLC	Yes (G.711 only)
	Silence suppression	No
	CNG	No
	Jitter buffer	Max 500ms (G.729a)
	Packet Header compression	No
	QoS	IEEE 802.1 P / Q, Layer 3 TOS, Diffserv
Network	TCP / IP, UDP, RTP, RTCP	Yes
	FTP client	Yes
	DHCP client	Yes
	Calendar	Yes
Telephone	Caller ID	Yes
	Phonebook	No
	Dialler Storage Capacity	100
	Mute	32
	Flash	Yes
	Pause	Yes
	Redial	Yes
	History Redial	Yes
	Ringer Patterns	10
	Ringer Volume	3
	SP-Phone Volume	Off, Low, Middle, High
	Programmable	8 steps
	Tone/Pulse	Yes
	Multi Point Conferencing	3 points
	All/Individual Disconnect	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	Speech speed conversion	Conversation mode, Listening mode
	Mic Noise Cut	Two setting (High / Low)
	Acoustic echo cancellation	Yes (128ms,-30dB)
	Line echo cancellation	Yes (16ms -32ms,-30dB)
	AGC	Yes

*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.

Item		Specifications
External Wired MIC	Cable length	3m
	Mute control	Yes
	Mute Status Indicator	Yes (Dual-coloured LED red & blue)
	Power	Power supply from main unit
	Dimensions (W x H x D)	54mm x 30mm x 89mm
	Diretional Characteristic	Omni-directional
	Range of frequency	300Hz - 700Hz
	S/N Ratio	Above 58dB at 1kHz
	Microphone coverage	2m