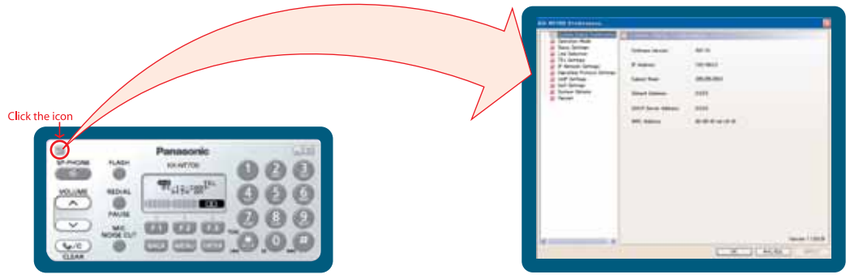
Conferencing Phone Manager Application

Conferencing Phone Manager is a bundled software for the operation and the programming. Before using the software, connect the USB ports of the KX-NT700 and of a Computer.You can operate and program the KX-NT700 from the computer, just as if you were using the front panel of the unit itself. The front panel screen for operation and the programming screen are as follows.



Front panel screen

Programming screen

Option

- External Wired MIC
  KX-NT701
  Cord : About 3m

The KX-NT700 supports up to 2 external wired microphones.

Specifications

Item		Technical specifications
Analogue Line Interface	I/F connector	RJ11 x 1
	Dialling	Dial Pulse (DP) 10pps, 20pps Tone (DTMF) Dialing
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
	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 Adapter	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)

*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		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	Yes
	FTP client	Yes
	DHCP client	Yes
Telephone	Calendar	Yes
	Caller ID	No
	Phonebook	100
	Dialer Storage Capacity	32
	Mute	Yes
	Flash	Yes
	Pause	Yes
	Redial	Yes
	History Redial	10
	Ringer Patterns	3
	Ringer Volume	Off, Low, Middle, High
	SP-Phone Volume	8 steps
	Programmable 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, Listen mode
	Mic Noise Cut	Two setting (High / Low)
	Acoustic echo cancellation	Yes (128ms,-30dB)
	Line echo cancellation	Yes (16ms – 32ms,-30dB)
	AGC	Yes

Option Unit -Wired External Microphone (KX-NT701)

Item		Specifications
External Wired MIC	Cable length	3m
	Mute control	Yes
	Mute Status Indicator	Yes(Dual-colored LED red & blue)
	Power	Power supply from main unit
	Dimensions (W×H×D)	54mm × 30mm × 89mm
	Directional Characteristic	Omni-directional
	Range of frequency	300Hz – 7000Hz
	S/N Ratio	Above 58dB at 1kHz
	Microphone coverage	2m

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Design and specifications are subject to change without notice. KX-NT700E-CT 0808KYEX0

Panasonic
ideas for life

IP Conferencing Phone
KX-NT700

The KX-NT700 is an advanced conferencing solution that can connect over IP networks or even the public the switched telephone network. This Multi-party IP Conferencing Phone supports Hi-Definition sound and everything to make communications as simple as a face-to-face meeting. It even connects with standard office telephone systems for seamless inter-working. KX-NT700, A valuable asset to help you collaborate - across your board rooms, or around the globe.

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

Busy schedules, deadlines, traffic jams and geographically dispersed offices, however make this a challenge. That's where the KX-NT700 IP Conferencing Phone becomes a great help.

The KX-NT700 IP conferencing phone is designed to save your business valuable time and resources, and makes setting up a conference call simple.

Conference calls are productive and efficient when participants can hear each other in clear, crisp voice quality. The KX-NT700 delivers great sound quality with impressive microphone range. Panasonic's KX-NT700, the next better thing to being there.

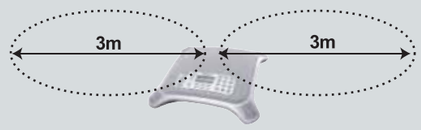
■ **USB Port**

Used to connect the unit to a computer and use 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.



■ **Telephone Jack (LINE)**

■ **DC Input**

■ **External Wired MIC Jack (EXT MIC1)**

■ **LAN Port (LAN)**

■ **External Wired MIC Jack (EXT MIC2)**

■ **AUDIO IN/OUT Jack**

⌀3.5mm audio input/output jack

■ **High Definition Voice Quality**

Full Duplex 7kHz Audio

■ **SD Memory Card Slot**

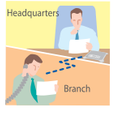
Conversation and voice memos* can be recorded onto SD Cards.

*Approximate Recording Time

SD Card Capacity	Approx. Recording Time
2GB	67hours
1GB	33hours
512MB	17hours
256MB	8hours
128MB	4hours
64MB	2hours
32MB	1hour

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.

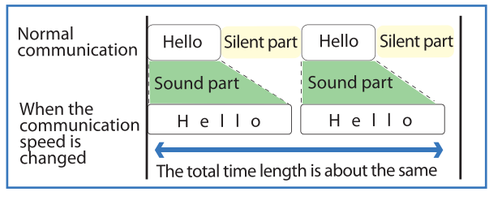
■ Easy to Carry & Setup

The KX-NT700 offers easy and smooth communications.

■ 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**



■ 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-NT700 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.

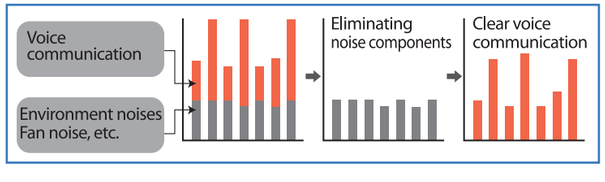
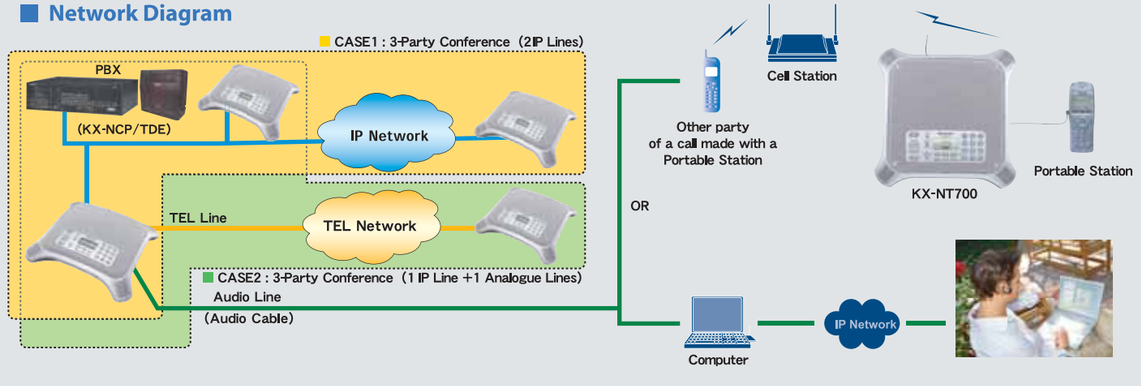
■ Relationship with Panasonic IP PBX (KX-TDE, NCP series)

The KX-NT700 operates as SIP extension of PBX and analogue extension.

■ Mic Noise Cut

By cancelling out ambient noise such as the drone of LCD projector fan, conversations are clear so conferences can proceed smoothly.

▼ **How noise reduction works**



■ Network Diagram