

# Terminal Line-up

## IP Phone (SIP)

### KX-HDV430

- Video Communication
- 4.3 inch Backlight LCD Display
- Colour Touch Display
- 3 x 8 Self Labelling, Programmable Buttons
- 2 Ethernet Port (1000 Base-T)
- Power-over-Ethernet (PoE)
- Full Duplex Speakerphone
- Built-in Bluetooth® for Headset
- EHS support
- Available in Black and White
- Wall Mount Kit Included
- Option: KX-HDV20  
KX-A424 (AC Adapter)



### KX-HDV230

- 2.3 inch Backlight LCD Display
- 5.1 inch Self Labelling Backlight LCD Display
- 2 x 12 Self Labelling, Programmable Buttons
- 2 Ethernet Port (1000 Base-T)
- Power-over-Ethernet (PoE)
- Full Duplex Speakerphone
- EHS support
- Available in Black and White
- Wall Mount Kit Included
- Option: KX-HDV20  
KX-A422 or KX-A424  
(AC Adapter)



### KX-HDV330

- 4.3 inch Backlight LCD Display
- Colour Touch Display
- 3 x 8 Self Labelling, Programmable Buttons
- 2 Ethernet Port (1000 Base-T)
- Power-over-Ethernet (PoE)
- Full Duplex Speakerphone
- Built-in Bluetooth® for Headset
- EHS support
- Available in Black and White
- Wall Mount Kit Included
- Option: KX-HDV20  
KX-A422 or KX-A424 (AC Adapter)



## Option

### Expansion Module

#### KX-HDV20

- Up to 40 Flexible Function Keys
- Wall Mount Kit Included



### KX-HDV130

- 2.3 inch Backlight LCD Display
- 2 Programmable Buttons
- 2 Ethernet Port (100 Base-TX)
- Power-over-Ethernet (PoE)
- Full Duplex Speakerphone
- Available in Black and White
- Option: KX-A423 (AC Adapter)  
KX-A440 (Wall Mount Kit)



### KX-HDV100

- 2.3 inch LCD Display
- 2 Programmable Buttons
- 1 Ethernet Port (100 Base-TX)
- AC Adapter Included
- Available in Black and White
- Option: KX-A440 (Wall Mount Kit)



## IP Camera and IP Doorphone (SIP)

### Communication IP Camera

#### KX-NTV150

- Video Communication
- Dedicated Camera for the KX-NSX/KX-NS/KX-HTS series
- Built-in Wireless LAN
- Power-over-Ethernet (PoE)/AC Adapter
- One Touch Calls
- Auto Dialling with Sensor
- Option: KX-A239 (AC Adapter)



### IP Video Doorphone

#### KX-NTV160

- Video Communication
- Dedicated Camera for the KX-NSX/KX-NS/KX-HTS series
- IP43 Support\*
- Power-over-Ethernet (PoE) only
- One Touch Calls
- Auto Dialling with Sensor



## Single Line Telephone

### KX-T7716

- Caller ID Compatible
- Ringer/Message lamp
- One Touch Dial Buttons
- Speakerphone and Headset for Hands-Free Conversation
- Available in Black and White



### KX-T7705/KX-T7703

- 2-Line LCD display
- Caller ID Compatible
- Speakerphone for Hands-Free Conversation (KX-T7705 only)
- Batteries not needed (Power source from Telephone Line)
- Available in Black and White



Photo: KX-T7705

# Specifications

## KX-HTS824 KX-HTS824 Software Version 1.0

### System Capacity

Type		Preinstalled	Maximum
Maximum Trunks	Total Number of Trunks	8 (6 if G.729a)	8 (6 if G.729a)
	SIP	6 (G.711)	6 (G.711)
	Analogue	4 (G.729a)	4 (G.729a)
Maximum Terminal Equipment	Extensions	24	24
	SIP	24	24
	Analogue	8	24
	DISA	4 ch <sup>1</sup>	4 ch <sup>1</sup>
	Built-in VM	4 ch <sup>1</sup>	4 ch <sup>1</sup>
	Doorphone (Analogue)	0	2
	Door Opener (Analogue)	0	2

### Specifications

		Specification
CPU		MIPS 34Kc 720 MHz
Memory		RAM: 128 MB NAND Flash: 512 MB
Real Time Clock		Lithium battery back up Data retention period 7 years
WAN port		Gigabit Ethernet 1 port RJ45 x 1
WAN/LAN port		Gigabit Ethernet 1 port RJ45 x 1
LAN port		Gigabit Ethernet 1 port RJ45 x 1
Wi-Fi	Interface	IEEE 802.11b/g/n
	Security	WPA2 (CCMP), WPA-WPA2 (TKIP-CCMP), Basic (WEP64/128)
	Multiple SSID	No
	Automatic WLAN Channel Selection	Yes
	WLAN Associations Filtering (ACL)	Yes
Network Core Functions	Automatic Setup for Wi-Fi Devices	Yes
	Throughput	Target throughput under ideal condition - 802.11b: 5-6Mbps - 802.11g: 20Mbps - 802.11n: 70-80Mbps QoS feature (IEEE802.11e EDCA) is supported
	Static Routing	Yes
	Firewall	Packet Filtering (IPv4, MAC address, port numbers and protocols) Basic DoS Attack Prevention / Stateful Packet Inspection (SPI) DMZ host
	NAT/NAPT	Yes
USB port		USB 2.0 1 port Type-A connector x 1
LED		System Status, Wi-Fi Setup Status WAN, LAN/WAN, LAN Status -LINK/ACT -SPEED (RJ45 Integrated with LEDs)
Button		Wi-Fi Setup INITIALIZE
LINE port (LCOT)		4 ports CO Line Interface RJ11 x 4 Caller ID Functions are supported
EXTN port (SLC)		8 ports SLT Interface RJ11 x 8 Caller ID Functions are supported
Option Card	SLC8	8 ports SLT Interface card RJ11 x 8 max. 2 cards
	LCOT4	4 ports CO Interface card RJ11 x 4 max. 1 card
	DPH2	2 ports Doorphone Interface card RJ11 x 1 Terminal x 1 max. 1 card
Power Input		110 V AC to 127 V AC / 220 V AC to 240 V AC
Power Consumption (when fully mounted)		60 W
External Battery Input		DC 12 V
Regulatory	EMC	CISPR32/22 Class B / FCC Class B
	Safety	EN60950, UL60950, IEC60950
	Telecommunications	TBR21, FCC Part 68
Air-cooling Method		Fan
Dimension		297 mm (H) x 210 mm (W) x 90.4 mm (D)
Weight (when fully mounted)		Under 2.2 kg
Operating Environment	Temperature	0 °C to 40 °C
	Humidity	10 % to 90 % (non-condensing)
Installation Environment		Wall mount Horizontal (Desktop) installation

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– Safety Precaution: carefully read the operating instructions and installation manual before using these products.

### DISTRIBUTED BY :

### Option List Hardware

	Component	Model No.
LCOT4	4-Port Analogue Trunk Card	KX-HT82480
SLC8	8-Port Single Line Telephone Extension Card	KX-HT82470
DPH2	2-Port Doorphone/Door Opener Card	KX-HT82460
Battery Cable	Backup Battery Cable	KX-A227
DPH	Doorphone	KX-T30865
	Doorphone	KX-T7765

### System Feature Capacity

	Item	Capacity
System	Call Park Zone	24
	Meet-me Conference <sup>2</sup>	Maximum member: 6/room Maximum room: 3
	Extension Number	2 or 3 digits
	Call Detail Recording (CDR)	40,000 calls (Able to be exported as CSV file)
Concurrent Call Conditions	Extension Group	16 Groups Maximum member: 24/group
	Paging Group	Extension group is used as paging group Maximum paging member: 4/group <sup>3</sup>
	Pickup Group	Extension group is used as pickup group Maximum pickup member: same as extension group
	Remote Extensions	Able to use 2 remote extensions simultaneously
Dialling	Video Call	Able to have a max. of 2 calls between video extensions
	Personal Speed Dialling	Depends HDV series
Call Log	System Speed Dialling	200 (Max digits: 32)
	Outgoing Call Log	Depends HDV series
Music on Hold (MOH)	Incoming Call Log	Depends HDV series
	Music on Hold	WAV file (Default or Custom) MoH port is not available.
IVR (=AA/DISA/OGM)	Number of Messages	10
	Message Length / 1 Message <sup>4</sup>	60 sec
Voicemail	Number of Mailboxes	24
	Greeting Message Length / 1 Mailbox <sup>1</sup>	30 sec
	Number of Messages / 1 Mailbox	0-100 (Default: 10)
	Message Length / 1 Message <sup>4</sup>	10-300 sec (Default: 60 sec)

<sup>1</sup> The DISA and VM has a total capacity of 4 channels.  
<sup>2</sup> Meet-me Conference function for KX-HTS824 ver. 1 only accepts participants from SIP Trunks and SIP Extensions.  
Meet-me Conference function will support SLT from KX-HTS824 ver. 1.5 (as extension use).  
<sup>3</sup> Upper 4 members of list in an extension group are assigned as paging members.  
<sup>4</sup> Total Message Length: 120 minutes



For more information on Panasonic PBXs, visit  
<http://panasonic.net/pcc/products/pbx/>



For information on your nearest Panasonic sales company, visit  
[http://panasonic.net/pcc/products/pbx/country\\_area/](http://panasonic.net/pcc/products/pbx/country_area/)



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# Panasonic®

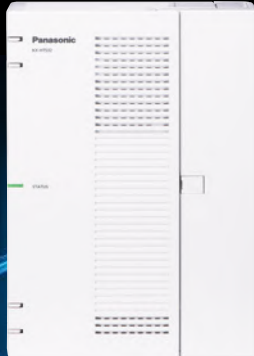
# Panasonic

## BUSINESS

## Compact Hybrid IP-PBX

# KX-HTS824

## All-in-one Smart Business package



\* IP43 compliant:  
Resistant to falling water droplets within a perpendicular range of 60 degrees (rain-proof design)  
Wires and other solid objects thicker than 1 mm in diameter cannot penetrate the device



# At the Heart of SOHO Business Communication

The KX-HTS824 is an advanced Hybrid IP-PBX for SOHO businesses. It has a capacity for up to 24 extensions to exactly meet the scale of SOHO businesses. Priced affordably while possessing all the necessary standard functions built-in. The KX-HTS824 is a SIP trunk ready system, and no external devices need to be purchased for IP usage.

Another unique feature is the built-in router and Wi-Fi access point.

The KX-HTS824 works as a voice processing platform and also as a network device.

A full line-up of terminals is available for the KX-HTS824, enabling optimal communication for SOHO businesses.

This system also achieves exclusive simplicity for setup and maintenance.

Even for business trends such as BYOD (Bring Your Own Devices), the KX-HTS824 brings you a solution with built-in functionality.

### Improved Work Efficiency

- ▶ Remote IP Extension
- ▶ Video Communication
- ▶ Simple Monitoring System
- ▶ Voice Mail Notification
- ▶ Paging

### Cost Saving

- ▶ IP/Legacy Flexible Hybrid System
- ▶ Built-in Basic Call Handling Function
- ▶ Built-in Router
- ▶ Built-in Wi-Fi Access Point

### Easy Maintenance

- ▶ Very Easy Installation (Plug and Play)
- ▶ Simplified Maintenance

### Touch Display Model

**KX-HDV430**  
Video Communication Terminal

**KX-HDV330**  
4.3 inch Colour LCD

**KX-HDV130**  
2.3 inch Backlight LCD

**KX-HDV230**  
5.1 inch Self Labelling Backlight LCD

### Full Duplex Speaker IP Phone

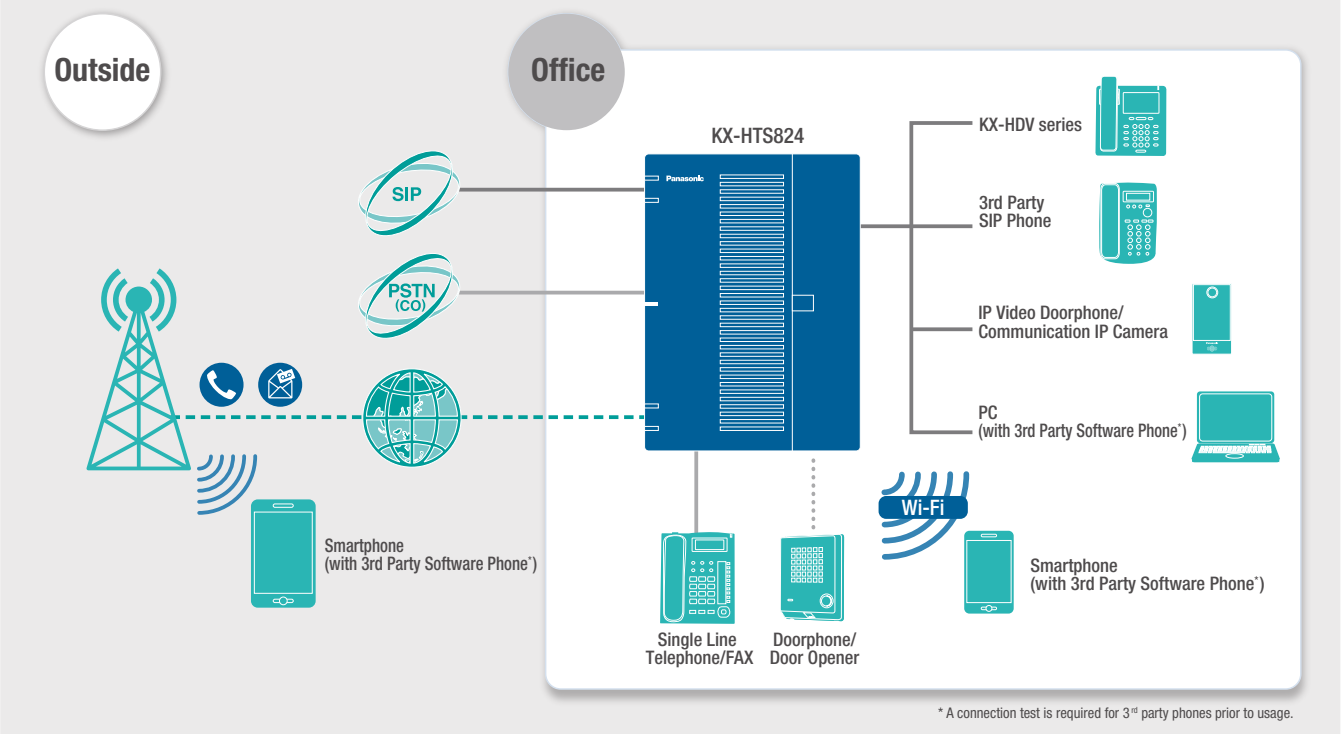
**KX-HDV100**  
2.3 inch LCD

**KX-NTV150**  
\*Built-in Wireless LAN  
\*Auto Dialling with Sensor

**KX-NTV160**  
\*Auto Dialling with Sensor

**IP Camera and IP Doorphone**

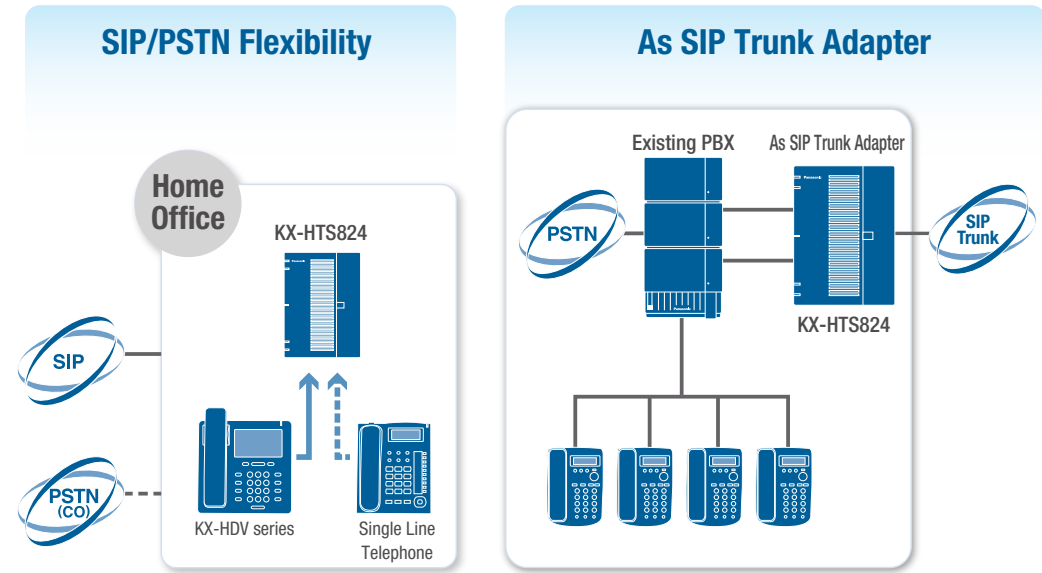
## System Connection Diagram



## IP/Legacy Flexible Hybrid System

The KX-HTS824 enables a flexible system that freely combines both IP and legacy systems to cost-effectively respond to your needs. Also, the KX-HTS824 brings you a solution as a SIP Trunk adapter for existing PBX systems. You can connect KX-HTS824 to an existing system to adopt SIP Trunk services.

You can also enjoy the features of new Panasonic IP terminals, KX-HDV series IP phones (including video phones) and KX-NTV series (IP doorphone and IP camera).



## All-in-One Platform

The necessary standard call handling functions, such as CID (Caller ID), DISA (Automatic Call Routing), and AA (Auto Attendant)/VM (Voice Mail), are all built-in. Furthermore, a capacity for 6 SIP trunks and 24 SIP extensions is built-in, so there is no need to buy external devices when using the IP function.

An analogue capacity of 4 trunks and 8 extensions is also built-in, which can be maximized to 8 trunks and 24 extensions with optional cards. In addition to that, a router and Wi-Fi access point is built-in enabling you to use the KX-HTS824 as a Wi-Fi access point for PCs or smartphones.

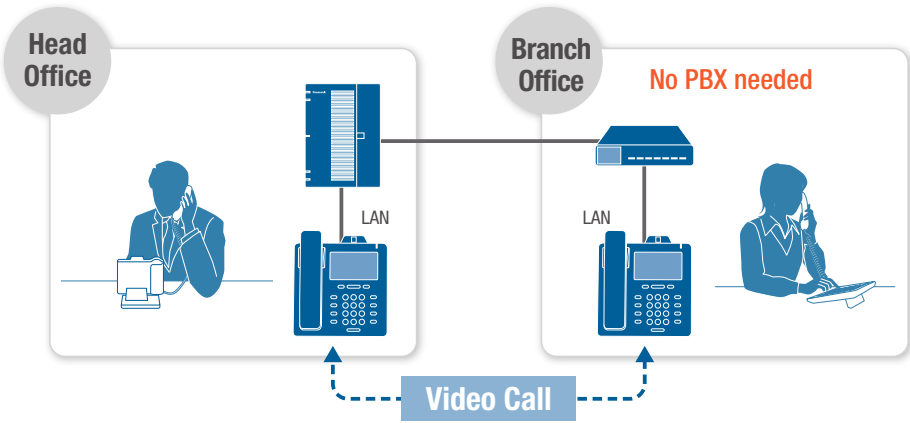
This system also has a quick phone conference feature as a built-in function.

Users simply need to dial assigned meeting room extension number and input PIN number for joining the phone conference.



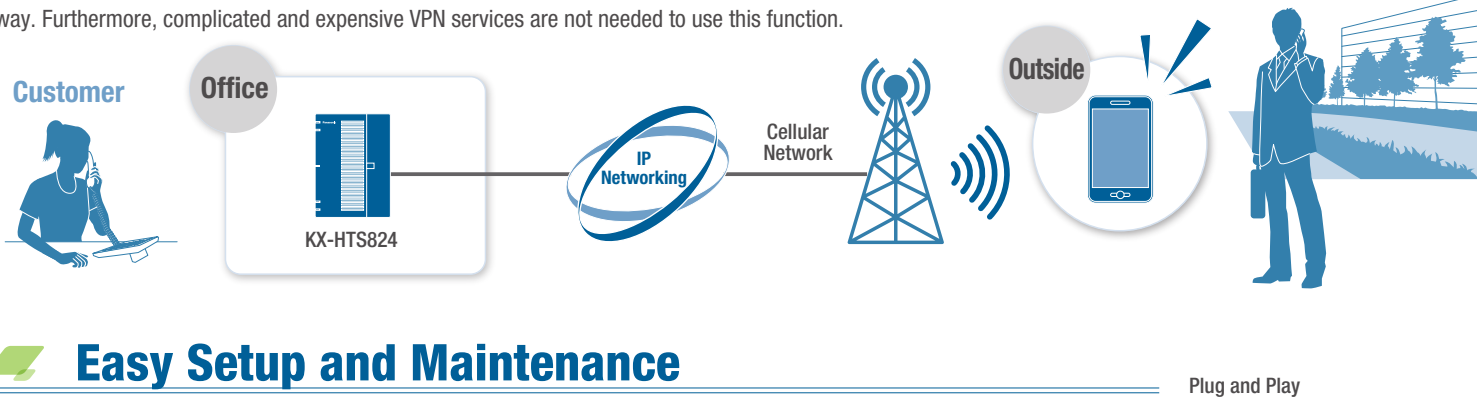
## Video Communication

The Panasonic KX-HDV430 can be easily installed in your branch or home office (Media Relay Gateway function) and video communication is possible without a VPN. There is no need to go on a business trip for a meeting. Also, it can be linked with the KX-NTV series (IP doorphone and IP camera), allowing it to be used as a simple monitoring system.



## Mobility

Smartphones with software phone functionality used by mobile workers can be installed as KX-HTS824 extensions, meaning they will not miss calls as long as they are in a Wi-Fi/3G/LTE environment whether they are at the office or away. Furthermore, complicated and expensive VPN services are not needed to use this function.



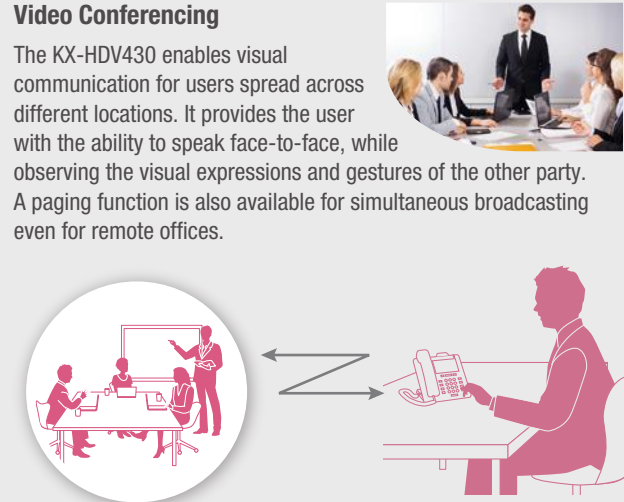
## Easy Setup and Maintenance

The phone can be used right away without any extra settings, as the internal/external line settings are automatically set by connecting a terminal to the KX-HTS824. Wi-Fi connection with PCs and smartphones can be easily done using the Wi-Fi setup button. Also, WEB programming is possible with the KX-HTS824. The GUI of the Web Console is really simple allowing for easy setup and maintenance. Secure Web Programming from outside is also available by using HTTPS.

## Usage Examples

### Video Conferencing

The KX-HDV430 enables visual communication for users spread across different locations. It provides the user with the ability to speak face-to-face, while observing the visual expressions and gestures of the other party. A paging function is also available for simultaneous broadcasting even for remote offices.



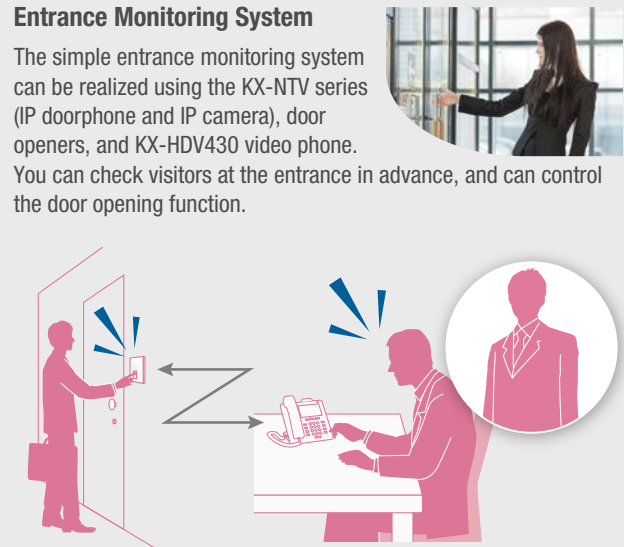
### Link with Mobile Devices

Smartphones with software phone functionality can be used as PBX extensions, so that you will not miss important calls from customers even when outside the office. Voice mail messages can be transferred by e-mail to your mobile devices.



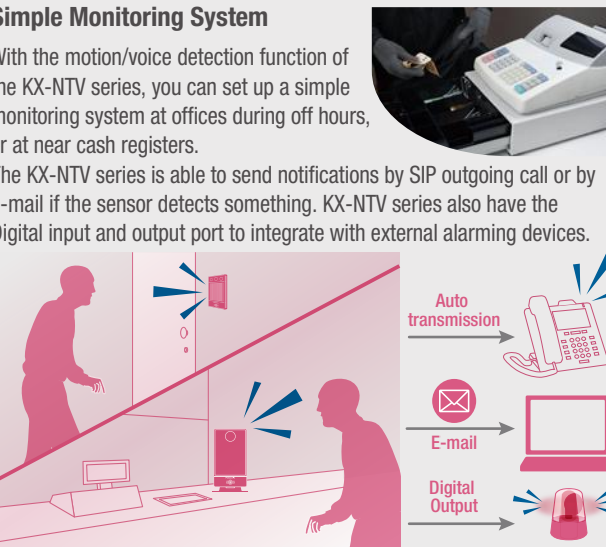
### Entrance Monitoring System

The simple entrance monitoring system can be realized using the KX-NTV series (IP doorphone and IP camera), door openers, and KX-HDV430 video phone. You can check visitors at the entrance in advance, and can control the door opening function.



### Simple Monitoring System

With the motion/voice detection function of the KX-NTV series, you can set up a simple monitoring system at offices during off hours, or at near cash registers. The KX-NTV series is able to send notifications by SIP outgoing call or by e-mail if the sensor detects something. KX-NTV series also have the Digital input and output port to integrate with external alarming devices.





For Executives/Supervisors

IP Proprietary Telephone  
KX-NT560

- 4.4 inch Backlight LCD Display
- 4 x 8 Self-Labeling, Flexible CO Buttons
- Full Duplex Speakerphone
- 2 Ethernet Port (1000 Base-T)
- Power-over-Ethernet (PoE)
- Built-in Bluetooth for Headset



SIP Phone  
KX-UT670

- 7 inch Backlight LCD Display
- Colour Touch Screen
- 4 x 6 Self-Labeling, Flexible CO Buttons
- Full Duplex Speakerphone
- 2 Ethernet Port (1000 Base-T)
- Power-over-Ethernet (PoE)
- Network Camera Monitoring
- Application Development (Java Supported)



Digital Proprietary Telephone  
KX-DT546

- 6-Line Backlight LCD Display
- 24 Flexible CO Buttons
- Full Duplex Speakerphone
- Option: KX-DT590

KX-DT590

Digital DSS Console (48-Key)



For Standard Users

IP Proprietary Telephone  
KX-NT551

- 1-Line Backlight LCD Display
- 8 Flexible CO Buttons
- Full Duplex Speakerphone
- 2 Ethernet Port (1000 Base-T)
- Power-over-Ethernet (PoE)



KX-NT556/KX-NT553

- 6-Line (KX-NT556) or 3-Line (KX-NT553) Backlight LCD Display
- 12 x 3 (KX-NT556) or 12 x 2 (KX-NT553) Self-Labeling, Flexible CO Buttons
- Full Duplex Speakerphone
- 2 Ethernet Port (1000 Base-T)
- Power-over-Ethernet (PoE)
- Option: KX-NT505

KX-NT505

Add-on 48-Key Module



Photo: KX-NT556

Digital Proprietary Telephone  
KX-DT543

- 3-Line Backlight LCD Display
- 24 Flexible CO Buttons
- Full Duplex Speakerphone
- Option: KX-DT590



For Simple Users

IP Proprietary Telephone  
KX-NT511A

- 1-Line LCD Display
- 3 Flexible CO Buttons
- Full Duplex Speakerphone
- 2 Ethernet Port (100 Base-TX)



Digital Proprietary Telephone  
KX-DT521

- 1-Line Backlight LCD Display
- 8 Flexible CO Buttons
- Full Duplex Speakerphone
- Option: KX-DT590



DECT Wireless System

KX-TCA185/KX-TCA285/KX-TCA385

- 1.8 inch Colour LCD
- Noise Reduction
- DECT Paging
- Vibration



Panasonic

Smart IP PBX  
KX-NS300



eco  
ideas

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KX-NS300



# New Smart IP PBX for the SMB Market Brings You Unified Communication

The Panasonic KX-NS300 Smart IP PBX is a cost effective legacy and IP communication system for small and medium sized companies that can be flexibly configured and expanded according to the your needs.

The KX-NS300 has advanced features and starts from 6 analogue trunks and 18 extensions, up to 192 extensions with an Expansion Unit.

KX-NS300 is also a unified communication system which has rich IP features such as mobile linking, integrated voice mail and e-mail, instant messaging (chat), and presence information.

It can also use built-in applications such as a call centre solution, mobile solution, and voice mail system to provide more efficient work and increased customer satisfaction.



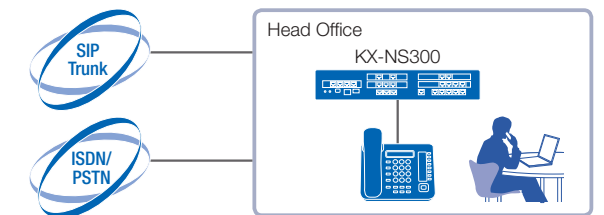
## Saving Costs is Top Priority

### Saving Costs by Adopting a Hybrid System

KX-NS300 can utilize the benefits of a hybrid system to help businesses lower costs and allow a quick return on investment.

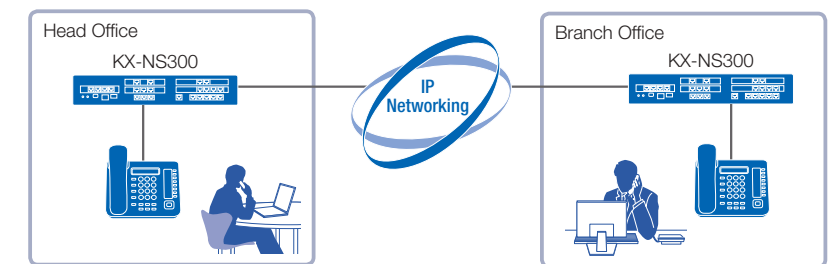
#### Saving Communication Costs

The adequate IP capacity of the KX-NS300 enables you to combine both IP and legacy trunks according to your needs, to construct systems that are flexible and cost effective.



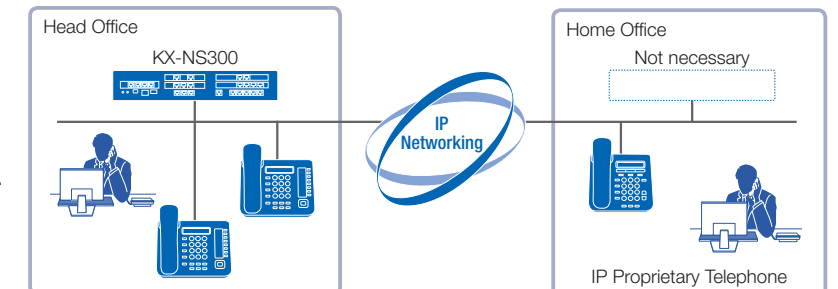
#### Saving Network Costs

By connecting the KX-NS300 units in different offices with an IP network, you can construct a network that integrates both voice and data. This enables extension calls between offices over the IP network, and reduces costs.



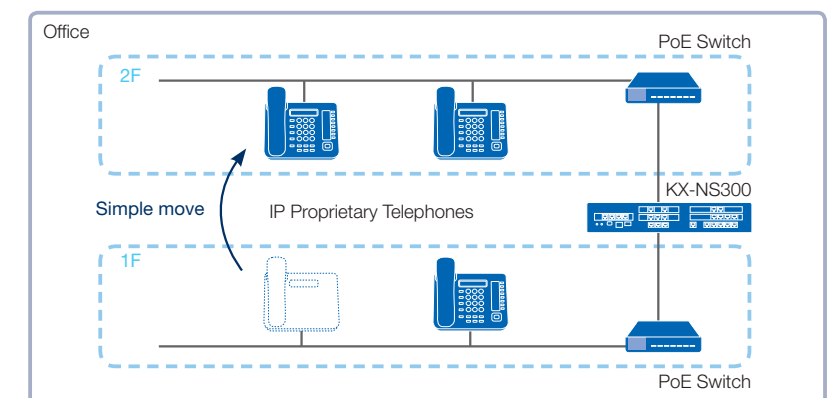
#### Saving on Initial Investment

The KX-NS300 can utilize an IP network to use IP phones as head office extensions, without installing extra KX-NS300 units or special routers at remote sites. In other words, migration to an IP network enables installation costs to be saved.



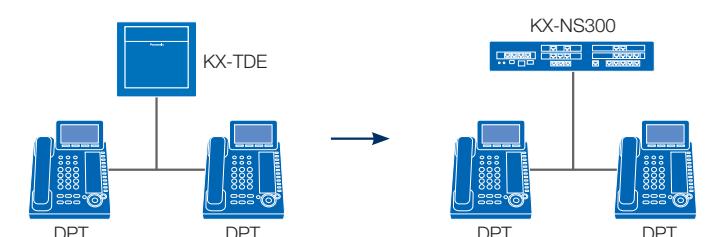
#### Saving Running Costs

By using IP phones as extensions, you don't need to change the settings at the PBX each time you change your office layout, as is normally required. Simply move the phone, and then connect it to the LAN for quick and easy use.



#### Using Existing Resources

Existing analogue PTs and digital PTs from Panasonic can continue to be used, enabling a system to be replaced at a low cost without wasting resources.



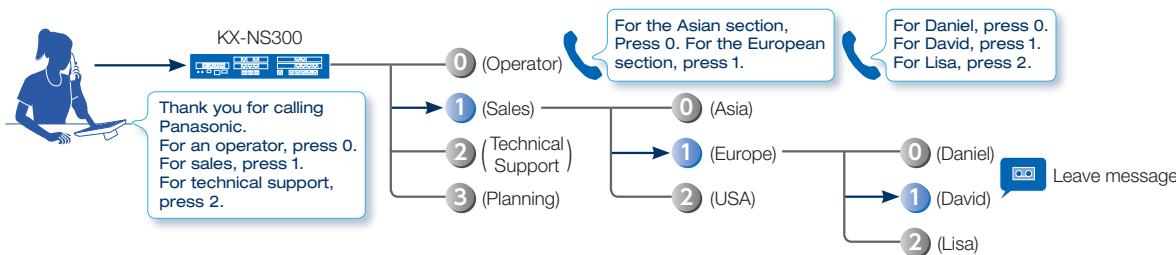
# Various Methods for Improving Customer Satisfaction

## Helping to Improve Customer Service

Improving customer satisfaction is the key to succeeding in business.  
The KX-NS300 provides services for smoothly responding and following up on customer queries.

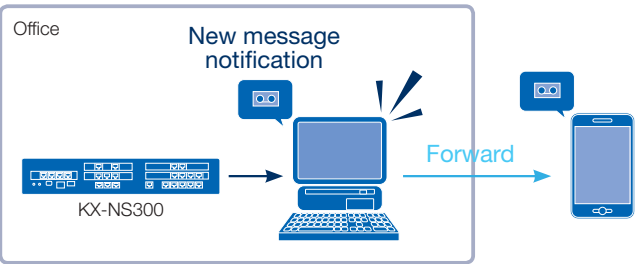
### Built-in Auto Attendant/Voice Message System

As a standard feature, the KX-NS300 can connect customers to the appropriate section or operator according to their query in call routing with voice guidance. It can also prompt the customers to leave a voice message when the operator is away.



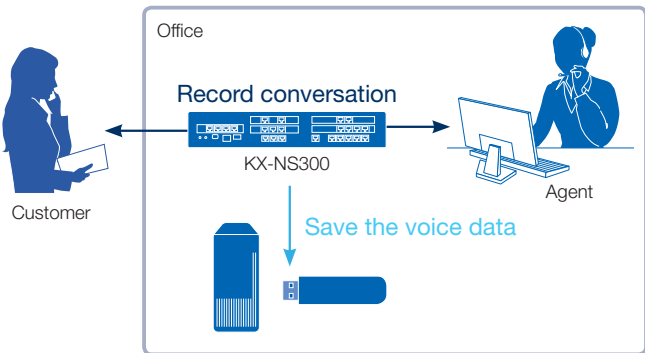
### Enhanced Voice Mail System

The KX-NS300 can be expanded to a voice mail system that can record a maximum of 24 channels and 400 hours.  
KX-NS300 also sends e-mail to notify you when you have new voice messages. The messages can also be received as attachment files and forwarded. E-mail notification can also be sent for missed calls where the customer did not leave a message, enabling you to quickly contact the customer.



### Auto Recording and Backing Up Conversations

The Voice Mail System function can be used to automatically record conversations with customers. The recorded voice data can be automatically saved to USB memory or an external server via the internet, and listened when required. The data can be used to understand problems or opportunities relating to customer service.



## Continually Improving Customer Service

It is always important to understand the changes in customer needs and improve the support provided by staff.  
Continually performing these measures leads to improved customer service.

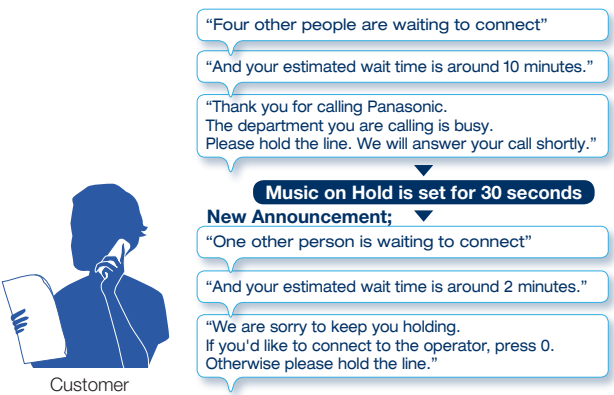
### Call Centre Solution

The KX-NS300 includes an advanced call routing function for small to medium size call centres. This function can be used without an external CTI server. More efficient call reception enables you to effectively utilize limited resources to assist in improving customer service.

- Queue Announcement
- Priority Routing for VIP Calls
- Uniform Call Distribution (UCD)
- Report per Agent/Group
- 1:N Ringing (Group Ringing)/Delayed Ringing
- Intercept Routing/Busy on Busy
- Monitor per Agent/Group
- Busy Override

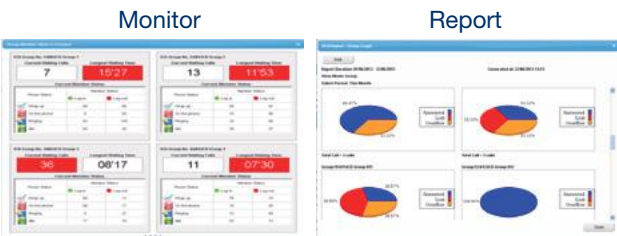
#### Automatic Voice Guidance for Customers

The caller can recognise their position in the queue through voice guidance. They can then decide whether to stay in the queue or leave a message and hang up, according to the situation.



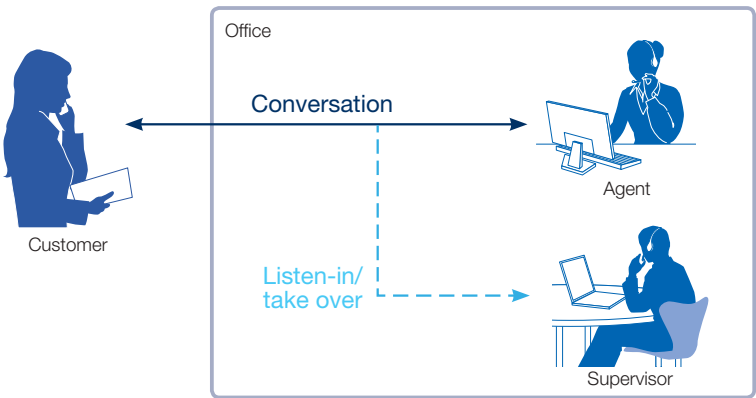
#### Monitoring Callers and Call History Report

The supervisor can monitor the live status of callers, agents, and grouped members, to understand on-site problems and improve their call centre.  
Reports can also be used to understand problems or opportunities relating to customer service, and recorded call data can be backed up and restores via the network as necessary.



#### Integrating with a Variety of Applications

The built-in Call Centre Solution function can be expanded to suit more sophisticated call centres by installing CA Operator Console, CA Supervisor, and CA Module, etc applications.  
For example, installing CA Supervisor enables a supervisor to listen in on agent conversations and take over calls. This enables a supervisor to take over a call to handle a customer when agents cannot do so.





# Improving Work Efficiency with Different Styles of Communication

## Smart Remote Extension

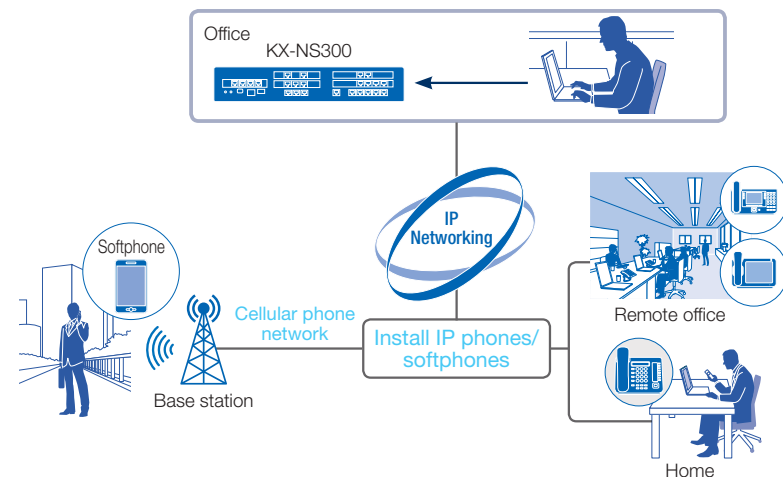
Recent business requires customers and staff members to be contacted anywhere and anytime.

As long as the KX-NS300 is in an environment that can connect to the internet, it can enable IP phones to be used as extensions for easily contacting people.

### Remote Extension Setup

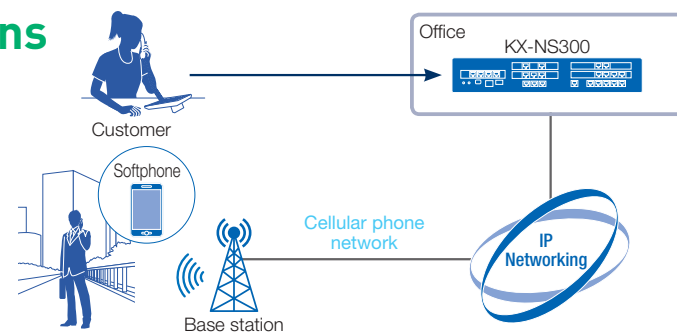
If you have Internet connection, KX-NS300 enables you to easily install IP phones in locations distant from the office, such as the homes of teleworkers, mobile workers using softphones on smartphones. Connecting with IP networking enables IP phones\* to be used as KX-NS300 extensions, without the need for any routers or extra devices.

\*KX-NT500 series, KX-UT series, and third party SIP phones are supported.



### Using Smartphone as Extensions

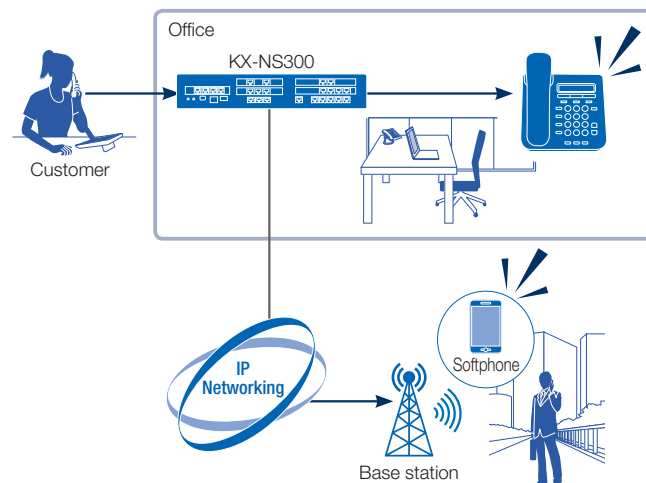
Softphones on smartphones used by mobile workers can be installed as KX-NS300 extensions, meaning they will not miss calls as long as they are in a Wi-Fi/3G/LTE environment, whether they are at the office or away.



## One Numbered Extension

IP phones such as a desk phone or softphone can be paired to use a single number.

This enables customers to easily contact staff with a single number, regardless of whether they are inside or outside the office.



## Various Communication Methods for Making Work More Efficient

Flexible communication methods are essential in current business situations. Communication Assistant (CA) from Panasonic and its applications provide you with the communication methods to meet your needs.

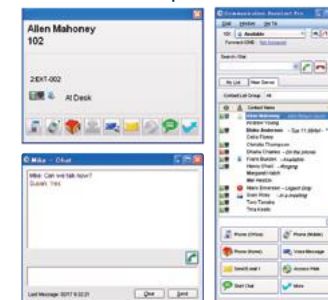
### Communication Assistant (CA)

CA is a highly intuitive PC-based application suite with powerful point and click telephony and screen-based presence, availability, and a variety of collaboration tools. It can be used with or without a server.

#### CA Basic-Express/CA PRO For Personal Productivity

You can easily make calls by simply searching from a customisable contact list. You can also see the phone status and PC status of employees in remote rooms or branches from the PC on your desk.

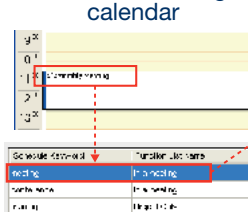
CA Basic-Express/CA PRO



#### Integrating Microsoft Exchange Server with CA

When Microsoft Exchange Server is integrated with CA Client, your presence will automatically change according to the contents of your Exchange calendar.

Microsoft Exchange calendar



CA Client Exchange integration settings



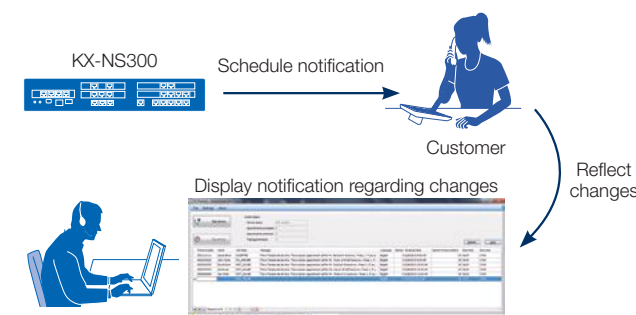
CA Client presence changes

### Linking with Panasonic Partner's Applications

You can link with CA and Panasonic partner's applications to provide various solutions.

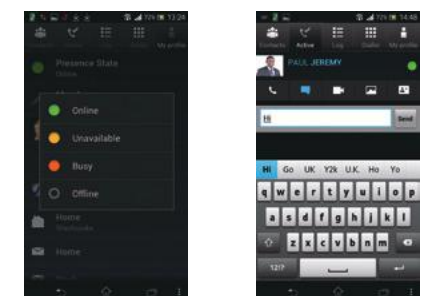
#### Appointment Reminder

You can use text to speech to confirm appointments with customers. The customer can then follow the voice guidance to check and change schedules, and you can view the result on a PC.



#### Mobile Communication

Even when you are away from the office, you can use a softphone to check the presence of the other party and select an appropriate method of communication, such as text message, video, or voice chat.



For detailed information on applications, access the following website. <http://panasonic.net/pcc/products/pbx/solutions/>