Panasonic

CONNECTING YOUR BUSINESS WITH TOMORROW

KX-TD

Digital business telephone system range

KX-TD

Digital super hybrid systems
range

For today...

The Panasonic brand has been built upon years of manufacturing top quality business and consumer products. Reliability, quality and functionality are just three of the factors which ensure that a Panasonic product will make your life easier, less stressful and more enjoyable.

...And tomorrow

Flexible Hybrid

The KX-TD is a sophisticated and powerful business telephone system designed to stay ahead of the evolving office environment. It is called a 'super hybrid' system because every extension port can accommodate a digital proprietary keyphone using SXDP. Each wired phone can have a portable option or a standard keyphone in addition to regular single line products (fax, modem, answering machine etc).

Simple expansion

A key feature of the KX-TD is its system connection capability (1232E only). This allows two systems to be linked to form one double size system. A growing business can add extensions and lines up to a maximum of 24 exchange lines and 64 extensions or even 128 using Extra Device Port XDP mode. With a configuration that utilises DECT and ISDN30 the maximum could extend to 38 lines and 184 extensions.

Customer care

Another benefit of the KX-TD is its ability to offer remote system maintenance and diagnostic information. This means that programming changes or system reporting will not always require a site visit by technical staff, but can be effected quickly and easily by your preferred dealer/maintainer via a modem interface.

All Panasonic telephone systems are fully supported by the appointed Panasonic Dealer Network. They will offer advice to assist in your decision making, install a system with the minimum of disruption and look after your system in the years to come.

...The future

The digital KX-TD provides you with a gateway to the future. Todays application maybe straight-forward telecommunication but the KX-TD can be enhanced to fulfill a whole range of solutions that your company may require in the future including:

Computer Telephony Integration (CTI)

First party (single user) or third party (network based) CTI solutions can be integrated.

Networking

Systems can be networked with other sites allowing customers to benefit from reduced costs on leased lines and desk to desk dialling in multi-site installations. Connection is also possible to an AC15 converter, multiplexers or routers for VoIP

The Panasonic KX-TD can offer complete and integrated solutions with our Voice Processing products, PBX DECT, Call Management software or Hotel application software to meet your needs as they develop.

The KX-TD range control at your fingertips...

Full flexible hybrid working

The KX-TD offers complete flexibility not only with a range of features available but with the handset options. Dependent upon your requirements the super hybrid capabilities of the KX-TD allow connection to a choice of digital and analogue keyphones, single line devices such as a simple handset, PC modems, cordless telephones (analogue or DECT) or facsimile machines.

Multi function
Alpha numeric LCD providing simple key access to:
● Incoming callers name and number (ISDN & CLI required)
● Call log – last 15 incoming and last 5 outgoing calls can be recalled and redialled (ISDN and CLI required)
● Alpha tagging of exchange lines
● Call duration (ISDN)
● Message Waiting, Absent Messages, Feature Set
● Calling Extension Name

Menu screen prompts
● System/personal speed dials/user selected functions
● Extension lists
● Feature access
● System guidance

Red and green lamp status
● Visual indication of lines or extensions showing line and/or extension status ie. held, busy, free, etc

Handsfree speech/ on hook dialling
● Integrated speaker permits receipt of paging announcements as well as handsfree working

Auto dial
● Maximum of 500 pre-programmed system speed dial numbers
● Automatic redial

Other handset features
● 10 personal speed dial numbers
● Headset compatible
● Wall mountable
● XDP
● SXDP

Message lamp
● For internal and voicemail message indication

Auto answer
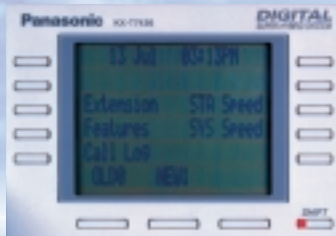● Handsfree answering of intercom calls

Jog control
● Easy to use jog control
● Adjust handset, speaker ringer volume
● Adjust LCD contrast
● Search through speed dial
● Search through menu options
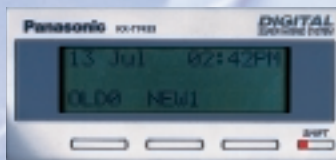
Panasonic for business communication

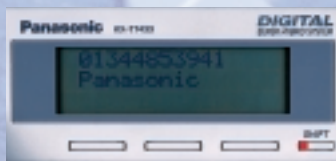**System Speed Dial search by name (up to 500 can be stored)**

Old and New Call Log, a record of callers (KXT7436/33 only)
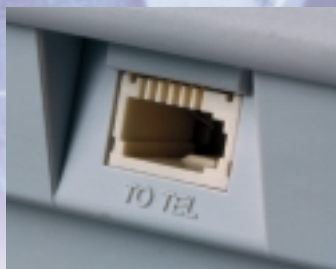
Caller ID displays name and number information (ISDN and CLI required): a whole screen of information

Old and New Call Log also available on phones with a smaller display (KXT7436/33 only)

Caller ID shows name and number information (ISDN and CLI required): information alternates on phones with a smaller display

XDP – Extra Device Port
Each digital keyphone has an XDP which allows an additional two-wire telephone device to be connected to the telephone system with a unique extension number. Another telephone, a fax or a modem can be connected via the XDP potentially, doubling the extension capacity of your telephone system. Using SXDP each extension can have a corded telephone and a DECT handset

ISDN basic and primary rate interfaces

With the ongoing development of the Euro ISDN network there are advantages in connecting the KX-TD to digital lines with the optional ISDN 2 and 30 Euro ISDN interfaces.

- Cost effective connection to the digital network with faster and more efficient communication
- Desktop ISDN 2 circuits can be provided for use with video telephones and video conferencing, group 4 facsimile machines and ISDN 2 compatible high speed modems for high speed data transfer
- Direct dialling in (DDI) – each KX-TD extension can have it's own direct dial number which can be called directly
- Calling line identification (CLI) – Each digital keyphone with LCD can display the incoming caller's number and company name
- Primary rate interface (Euro ISDN) – up to 30 ISDN channels may be connected (dependent on system size)

Exchange line functions

The KX-TD allows calls to be routed through your system in the way which best suits you: either via an operator and a switchboard, single extensions or groups, or through an auto attendant/voice mail system.

- Key and lamp operation (keyphones only)
- Delayed ringing
- Group ringing
- Call hunting on incoming calls
- Incoming ringing can be put through external PA, so the extensions can answer
- Exchange line conferencing
- Exchange line transfer
- Call forward to outside line
- Connection to Centrex services

Automatic Route Selection/Least Cost Routing

With the Automatic Route Selection (ARS) feature the system can choose the most cost effective network from the outgoing number dialled. Up to 9 different carriers can be connected to the KX-TD. It makes sense to take advantage of the many service providers available:

- Up to 9 direct or indirect carriers (can be programmed by exchange line)
- Set by time and day of the week

Call and system management

When it is essential to keep control of your call costs and the efficiency of your system, the KX-TD can provide a number of cost saving features and management controls:

- Full call barring by extension (permits day/night settings)
- Individual extension lock
- Connection via integral RS232C interface to a printer or call management system can provide incoming and outgoing call information and reports: extension number, call duration, number dialled, incoming outgoing, call cost option, CLI information, (ISDN) account code etc.
- Operator response time to answer
- Lost calls
- Buffer for 99 calls

DECT – cordless telephones integrated to your switchboard

DECT Key Phone

Flexibility and mobility in a busy office environment is essential. Now cordless telephones can be integrated to your telephone system allowing telephone users all the benefits of conventional telephones as they move around the premises, inside or outside.

- Digital Enhanced Cordless Telephony, a robust standard for cordless voice and data transmission over radio waves (between 1880-1900MHz)
- Prevents channel interference to ensure greater security from calls being interrupted which can often happen when using standalone devices
- The system does not require licensing by the user such as that required for band 3 radio
- Extensions can make and receive internal and external calls from anywhere on the premises (within range of any of the strategically positioned base stations)

- Cost savings will be made by not having to return missed calls
- DECT enables urgent issues to be dealt with immediately. Avoids the need for callers to leave voice mail or send paging messages and wait for a response
- DECT technology provides high quality speech reproduction and reliability
- Multiple DECT handsets can be connected to the same system
- Compatible with ISDN (if connected to the system) so that DDI calls can go directly to their chosen extension
- Access to 500 system speed dial numbers plus 100 personal speed dial numbers

Antenna

Volume control
- Used to select the ringer or receiver volume

Talk button
- Used to make or receive calls (including intercom calls)

Auto/OK button
- Used for System Speed Dialling and storing program changes

Function button
- Used to enter into the Function mode or access features (eg hold) by pressing additional keys

Ringing indicator
- Flashes red when an incoming call is received

Display

Flexible buttons
- Used to seize a CO line or access a feature

Clear/transfer button
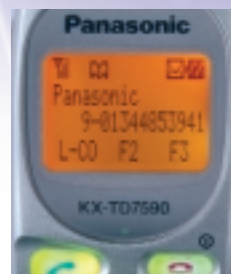- Used to clear incorrect digits while entering numbers, and transfer a call to another extension

Microphone
- Talk time 11 hrs (standby 120 hrs)

System Speed Dial search by name (up to 500 can be stored)

Caller ID shows name and number information (ISDN and CLI required)

Switchboard operation

Fast and efficient call handling is made very easy with the KX-TD operator console plus a number of useful operator features enabling smooth and effective call distribution and functionality:

- Full visual status of all extensions showing whether they are busy or available
- Dual colour line indication (red/green) of incoming and held calls enabling clear visual indication as to call status
- Up to two operator positions with automatic or manual night service facility

- Announced/unannounced call transfer to extensions or extension group with automatic recall facility
- Multiple call handling (call hold/call park) and automatic timed recall to operator
- Call queueing at busy extension or department to enable faster call handling
- Extension call barring set by operator

A full range of handsets and DSS consoles is available in both black and white

KX-T7420

KX-T7425

KX-T7431

KX-T7433

KX-T7436 + KX-T7441

KX-T7420

KX-T7425

KX-T7431

KX-T7433

KX-T7436 + KX-T7440E

Handsets

Model	Description	FF keys	One touch keys	Dual colour LEDs	Message LED	Alphanumeric display	Handsfree speech
KX-T7420E	12 Key Handsfree	12	12	•	•	-	•
KX-T7425E	24 Key Handsfree	24	24	•	•	-	•
KX-T7431E	12 Key Handsfree Display	12	12	•	•	•	•
KX-T7433E	24 Key Handsfree Display	24	24	•	•	•	•
KX-T7436E	24 Key Handsfree Large Display	24	24	•	•	•	•
KXTD7590CE	DECT	3	3	•	•	•	with headset
KX-T7440E	66 Key Console (DSS)	66	66	-	•	-	-
KX-T7441E	48 Key Console (DSS) With answer/release keys	48	48	-	•	-	-

Voice processing systems

Panasonic voice processing systems allow you to record, send and retrieve messages 24 hours a day, 7 days a week world-wide, and help to efficiently handle your telephone system traffic and internal communication needs.

The voice processing systems can improve the efficiency of your business, whether it be in sales, customer service, marketing, or human resources.

- Field sales representatives can call in their sales reports at any time of the day
- Customer lines can publicise sales, special promotions and general information
- Orders can be placed 24 hours a day
- Product or service information is available 24 hours a day
- Database information can be easily gathered
- Calls may be screened prior to connection to an extension without overloading a busy operator
- Conversations can be recorded and transcribed later (KX-TD/KX-TA only)

Flexible PBX integration
The systems can interface with most PBX systems that have a single-line telephone port capable of transmitting DTMF signals. The units have an RS-232C interface for PC connection used for programming, showing reports, usage etc. and system maintenance. (Not with KX-TVP50E).

Quick set-up
This feature provides a quick way of setting up parameters that must be established to start the systems with a host PBX. Using a computer terminal connected to the RS-232C port, you can easily edit programming items on the guidance screen.

Holiday setting capability
The systems can be programmed to handle calls differently (e.g. auto-attendant vs. voice mail) on official holidays, thereby providing suitable help to callers during off peak periods or holidays.

Automatic fax transfer
When you receive a fax call the system will automatically send the call to the designated fax extension – this eliminates the need to have a dedicated line for your fax. You can designate a second fax extension to handle overflow traffic.

Multilingual service
The systems can support up to three different languages. Callers may choose the language of their preference.

Enhanced integration
When integrating Panasonic voice processing systems to our KX-TD/KX-TA telephone systems there are enhanced facilities available.

1. Auto configuration
When setting-up you don't have to type the extension number for each mailbox. The KX-TD/KX-TA will automatically forward all extension information to the voice mail, making installation a very simple procedure.

2. Live call screening
When this mode is activated, you can monitor incoming messages and decide whether or not to take the call.

3. Two-way recording
This feature allows an extension user to record a conversation in his or her mailbox by simply pressing the two-way record function key. A variation of this feature is 'two-way transfer' which permits the extension user to record a conversation in another person's mailbox.

4. Intercom paging
This facility allows the voice processing system to make a paging announcement through the proprietary telephones to alert an extension user that there is a call for them.

5. Caller ID Intelligence
The KXTVP50 offers unique intelligent functionality. Caller ID Routing will route callers by telephone number to specified extensions or services. Caller ID Call Screening will announce callers by name (max 30) or number. Both require Caller ID from the PBX

Voice mail specifications

	KX-TVP50E	KX-TVP100E	KX-TVP200E
Total recording time	2hrs (standard) 4hrs (option)	18 hrs	32 hrs
Recording time per mailbox	5-100mins	5-100 mins	5-100 mins
Number of ports	Max. 2	Max. 4	Max. 12
Number of mailboxes	Max. 32	Max. 64	1024
Number of messages (per mailbox)	Max. 100	Max. 100	Max. 100
Personal greeting length (programmable)	8-60 sec	8-60 secs	8-60 secs
Message retention (programmable)	1-30 days or unlimited	1-30 days or unlimited	1-30 days or unlimited
Extension numbering (programmable)	2-5 digits	2-5 digits	2-5 digits
Message waiting lamp (programmable)	DTMF sequence	DTMF sequence	DTMF sequence
Maximum message length (programmable)	1-6 mins	1-6 mins	1-6 mins
Activity reporting – Mailbox List, Class of Service List, System Service Report, Call Account Report, Mailbox Usage Report, Memory Usage Report, Fax Call Report, Custom Service Report (not with KX-TVP50E)			

System specification

	KX-TD816E	KX-TD1232E	
No. of control units	1	1	2
Maximum capacities:			
Exchange lines	8	12	24
ISDN 30 channels	8	30	30
ISDN 2 channels	8	12	24
Extensions	16(*32 using XDP)	32(*64 using XDP)	64(*128 using XDP)
DECT	16	64	64
Operator positions	2	2	2
Door phones	2	2	4
Door openers	2	2	4
External paging system	2	2	4
External music source	2	2	2
System speed dials	500	500	500
Personal speed dials	10	10	10
CCU dimensions W x H x D (mm)	327 x 468 x 110	327 x 640 x 110	x2 CCU's