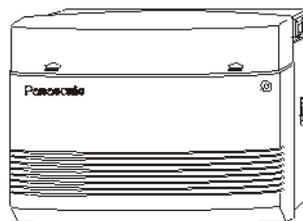


Product ***D***escription



KX-TA624
Advanced Hybrid
Telephone System

Introduction

Welcome to the Panasonic KXTA624, Advanced Hybrid Telephone System.

If you are familiar with our KXT products you will very quickly appreciate how 'Advanced' the KXTA system is from its predecessor the KXT7000 Series. The 'Advanced' features bring the specification up to date. In particular you should note these new features when preparing to propose this model to customers:

Modular configuration

To match the customers requirements

To enable the product to be easily upgraded for additional capacity

Caller Id (optional)

To identify the calling party and improve call handling

Voice Mail Integration

To add efficiency to call handling, especially during peak/busy periods

Examine the Panasonic Voice Processing products, KXTVP100E & KXTVP200E

5 Party Conference Call

To improve communication and decision making

Call Logging Printer/PC interface

To enable greater analysis of telephone usage. To enable client billing. To provide better management information.

Door Phone / Door Opener x 4

Improves security. Allows you to screen visitors.

Day/Lunch/Night Settings

The telephone system can be programmed to operate in three different ways to provide a different service for normal working hours, lunch time coverage and out of hours, night service, weekends, bank holidays etc.

For a full description of all the KXTA features and functionality please refer to the remainder of this document.

Index

Introduction	2
Index	3
System Capacities	6
System Components	7
<i>KX-TA624E Central Control Unit</i>	7
<i>KX-TA62474E Expansion Card</i>	7
<i>KX-TA62477E Expansion Card</i>	7
<i>KX-TA62491E DISA/OGM/Fax Detection Card</i>	7
<i>KX-TA62493E Caller ID Card</i>	7
<i>KX-TA62460E Doorphone / Door Opener Card</i>	7
<i>KX-T30865E Door-phones</i>	8
Features	9
Absent Message.....	9
Account Code.....	9
Alternate Calling – Ring/Voice.....	9
<i>Voice Call</i>	9
<i>Tone Call</i>	9
Automatic Callback Busy.....	9
Automatic Exchange Line Access.....	9
Automatic Route Selection (ARS).....	10
Busy Extension Signalling	10
Call Barring	10
Call Forwarding.....	10
Call Park.....	10
Call Pickup	11
<i>Directed Call Pickup</i>	11
<i>Group Call Pickup</i>	11
<i>Call Pickup Deny</i>	11
Call Splitting	11
Call Transfer.....	11
Call Waiting	11
Conference	11
Data Line Security.....	12
Direct In Line (DIL).....	12
Direct Inward System Access (DISA)	12
Do Not Disturb (DND).....	12
Door Opener	12
Doorphone.....	12
DSS Console	13
Exchange Line Ringing Selection	13
Executive Busy Override	13
Extension Button Confirmation	13
Extension Group.....	13
<i>Group Call Pickup</i>	13
<i>Paging Group</i>	13
<i>DISA Ring Group</i>	13
<i>UCD Group</i>	13
Extension Hunting.....	14
<i>Circular hunting</i>	14

<i>Terminate hunting</i>	14
Extension Lock.....	14
External Feature Access.....	14
Flexible Buttons.....	14
Handsfree Answerback.....	14
Handsfree Operation.....	15
Hold.....	15
<i>Exclusive Hold</i>	15
Intercept Routing.....	15
Language Selection.....	15
Limited Call Duration.....	15
Line Access Keys.....	16
<i>Trunk Group (G-CO) Key</i>	16
<i>Single Exchange Line (S-CO) Key</i>	16
<i>Other Exchange Line (O-CO) Key</i>	16
Log-In/Log-Out.....	16
Message Waiting.....	16
Music on Hold / Background Music (BGM).....	16
One-Touch Dialling.....	17
Operator / Manager Extension.....	17
Operator Call.....	17
Outgoing Message (OGM).....	17
Outside Calling.....	18
<i>Automatic Line Access</i>	18
<i>Trunk Group Access</i>	18
Paging.....	18
<i>All Extensions</i>	18
<i>Group</i>	18
<i>External</i>	18
<i>All Extensions & External</i>	18
Paralleled Telephone Connection.....	18
Personal Speed Dialling.....	18
Pickup Dialling.....	19
Polarity Reverse Detection.....	19
Power Failure Transfer.....	19
Preferred Line Assignment — Incoming.....	19
<i>No Line Preference (Manual Answer)</i>	19
<i>Prime Line Preference</i>	19
<i>Ringling Line Preference</i>	19
Preferred Line Assignment — Outgoing.....	20
<i>Idle Line Preference</i>	20
<i>Prime Line Preference</i>	20
<i>No Line Preference</i>	20
Recall.....	20
Recall Button on a Single Line Telephone.....	20
Redial.....	20
<i>Last Number Redial</i>	20
<i>Saved Number Redial</i>	20
Ringling Pattern Selection.....	20
Room Monitor.....	21
Secret Dialling.....	21
Self-Extension Number Confirmation (KX-T7130 only).....	21

Station Message Detail Recording (SMDR)	21
System Speed Dialling	21
Timed Reminder	21
<i>Timed Reminder, Remote (Wake-Up Call)</i>	21
Time (Day/Night/Lunch) Service.....	22
Uniform Call Distribution (UCD).....	22
Voice Mail Integration	22
Walking Class Of Service	22

System Capacities

	Minimum	Maximum
Key-phones	8	16
Single Line Telephones	8	24
Exchange Lines	3	6
Door-phones	0	4
Door Openers	0	4
Paging Ports	1	1
External Music	1	1
Printer	1	1

System Variations

	Lines	Extensions	Caller ID Cards	DISA/OGM/ Fax Detect	Door Opener for 4 Doors
Central Control Unit (CCU)	3	8	0 or 1	0 or 1	0 or 1
CCU & 8 Extension Card	3	16	0 or 1	0 or 1	0 or 1
CCU & 3 Line 8 Extension Card	6	16	0, 1 or 2	0 or 1	0 or 1
CCU & 3 Line 8 Extension Card and 8 Extension Card	6	24	0, 1 or 2	0 or 1	0 or 1

System Components

KX-TA624E Central Control Unit

The central control unit is initially configured 3 exchange lines and 8 extension ports. The following devices are built in:

1. Music input
2. Paging output
3. RS232C call logging port
4. Ring generator
5. DTMF receivers
6. All system control

KX-TA62474E Expansion Card

Expansion card for the connection of up to 3 exchange lines and 8 telephones. All ports on this module will support the 7000 series and single line telephones.

Note: Only one of these cards may be fitted onto each KX-TA624E.

KX-TA62477E Expansion Card

Expansion card to allow connection of 8 single line telephones.

Note: Only one of these cards may be fitted onto each KX-TA624E.

KX-TA62491E DISA/OGM/Fax Detection Card

Interface card to provide Direct Inward System Access (DISA) with two user recorded messages. The messages may be used with the DISA or UCD (Uniform Call Distribution) features. If fax tone is detected the incoming fax call will be automatically transferred to the nominated fax extension.

Each cabinet will allow one card to be installed.

KX-TA62493E Caller ID Card

Interface card to allow connection of 8 PSTN or equivalent lines.

Each 3 exchange lines will require one Caller ID Card. For example a basic system will require one Caller ID card, when a KX-TA62474E expansion card is fitted an additional caller ID card will be required.

KX-TA62460E Doorphone / Door Opener Card

Interface to allow connection of 4 Doorphones and 4 door release mechanisms.

Only one of these cards may be fitted onto each system.

KX-T30865E Door-phones

Up to 4 door-phones may be connected to the KX-TA624 system provided it is fitted with the KX-TA62460E card. The door-phones are proprietary, weather resistant units. There are also four relays for controlling a remote door-lock for each doorphone.

Features

Absent Message

Allows an extension user to set a message which will be displayed on the LCD of the calling extension to show the reason for the called extension's absence. One of 6 messages can be displayed, the message may be set for any telephone (single line telephone or proprietary telephone). Setting or cancelling messages can be done by individual extension users but only callers using a proprietary telephone with an LCD can see the message.

Account Code

An account code is used to identify incoming and outgoing outside calls for accounting and billing purposes. The account code is appended to the SMDR call record. For incoming outside calls, an account code is optional. For outgoing outside calls, there are 4 account input modes programmable Option, Forced, Verify-All and Verify-Call Barring Override.

Alternate Calling – Ring/Voice

This system offers a proprietary telephone user 2 types of intercom calling, Voice Call mode and Tone (ring) Call mode.

Voice Call

Informs the called party of an incoming call by the calling party announcing themselves.

Tone Call

Uses a ring tone.

A proprietary telephone user can select "Voice Call" or "Tone Call" in the Proprietary Telephone Settings. If the user selects "Voice Call", the calling party can talk to the user immediately after the confirmation tone. The calling party can switch the pre-set mode at the called extension, from "Voice Call" to "Tone Call", by pressing "*" after dialling the extension number.

Automatic Callback Busy

When the selected exchange line or dialled extension is busy, the system will automatically notify an extension user with a callback ringing when the line becomes available.

Automatic Exchange Line Access

When an extension user dials 9 before a telephone number, an idle exchange line from the dial 9 group of exchange lines is selected automatically.

Automatic Route Selection (ARS)

The system automatically selects the least expensive of up to five routes based on time and exchange line used. It is not necessary to dial the access code of the least expensive carrier.

Busy Extension Signalling

When an extension user calls a busy extension, the busy extension will hear a Call Waiting tone to know that a call is waiting.

Call Barring

Call Barring is a system programmable feature that can prohibit certain extension users from making unauthorised calls.

Calls made using Speed dialling will also be subject to call barring.

The level of barring when an extension is locked is also selectable through system programming.

An extension user may override call barring temporarily to make a toll call from a Call barred extension. The user can carry out this feature by entering one of the pre programmed account codes before dialling the telephone number. The user can make a call with a lesser level of barring applied to it.

Call Forwarding

Allows an extension user to transfer intercom calls automatically to another extension or to an external destination. The following types of call forward are available:

All Calls, Busy or No Answer, To an Exchange Line or Follow Me.

Call Park

Allows an extension user to place a held call into a system parking area. Any extension user can retrieve the parked call to perform other operations. Up to 10 calls can be parked at the same time.

Call Pickup

There are four types of call pickup:

Directed Call Pickup

Allows an extension user to answer a call ringing at any other extension.

Group Call Pickup

Allows an extension user to answer a call ringing at another extension, if the call is ringing within the same extension group. If required extensions may pickup calls ringing in their group just by going off-hook, even though their extension is not ringing.

Call Pickup Deny

Allows an extension user to prevent other extensions from picking up a call ringing at the user's extension with the Call Pickup feature.

Call Retrieving from a TAM (Telephone Answering Machine) - Allows an extension user to answer an incoming call already answered by a TAM.

Call Splitting

Allows an extension user to talk to 2 different people. If a call is received while the user is already busy on a call, the user can place the current call on hold and have a conversation with the other party.

Call Transfer

Allows an extension user to transfer a call, an intercom or an outside call, to another extension. Two types are available. Intercom calls may also be transferred to an external telephone number using Screened call transfer.

Screened Call Transfer: Announces the call to another extension before completing the transfer.

Unscreened Call Transfer: Immediately releases the call to another extension without an announcement

Call Waiting

During a conversation, the Call Waiting tone informs extension users that there is a call waiting. The user can answer the second call by disconnecting the first call or placing it on hold.

Conference

During a 2-party conversation, an extension user can add up to three other people to make a 5-party conference. The maximum number of members of a conference can be programmed in system programming. The 5 party conference may be made up of a maximum of 2 external callers and 5 internal extensions subject to a maximum of 5 participants.

Data Line Security

Prevents an extension user from being interrupted by the Call Waiting and Executive Busy Override features. This feature also prevents a ring tone or an alarm tone from being sent when a call is kept holding longer than the allowed time. Data communication devices, such as computers and facsimiles, connected to an extension port can operate without interruptions.

Direct In Line (DIL)

Enables an incoming outside call to go directly to a specified extension. This exchange line can be used by multiple extension users to make a call, but can only be used by one extension to receive a call. DIL can have a different destinations in the day, night and/or lunch modes.

Direct Inward System Access (DISA)

Allows an outside caller to access specific system features as if the caller is an extension in the system. When the call arrives at the telephone system the caller will hear internal dial tone or optional greeting message. If the caller dials an extension or feature number the caller will be connected to that extension or access the feature required.

Do Not Disturb (DND)

Allows an extension user to prevent other parties from disturbing them. The extension will not receive intercom or outside calls.

Do Not Disturb may be overridden by an extension with the privilege of Do Not Disturb (DND) override.

Door Opener

Up to 4 Door Openers can be connected to the system. The door can be unlocked by a pre-assigned extension users.

Doorphone

Up to 4 Doorphones (KX-T30865) can be installed. If a visitor presses the doorphone button, pre-assigned extensions will ring the users can answer the call and talk to the visitor. Any extension user can call a doorphone.

DSS Console

The Direct Station Selection (DSS) Console provides direct access to extensions, a busy lamp display, as well as 16 PF (Programmable Feature) buttons.

Up to 2 consoles can be installed per system.

If a feature like One-Touch Dialling is assigned to a DSS button or PF button, accessing the feature can be done easily by pressing the corresponding button.

Exchange Line Ringing Selection

When an outside call is received at an extension, the user can select whether their extension will ring or not.

Executive Busy Override

Allows an extension user enabled in program to interrupt an existing intercom or exchange line call. A 3-party conference will be established.

Extension users may prevent (if permitted) other extension users from interrupting their Conversation using Executive Busy Override Deny.

Extension Button Confirmation

Allows a display proprietary telephone user to confirm the values stored in the buttons on their telephone, such as the REDIAL button or flexible line key, by pressing the corresponding button while on-hook.

Extension Group

The system supports 8 extension groups. In an extension group, the following features can be activated.

Group Call Pickup

Any member of an extension group can pick up a call directed to another member in the same group.

Paging Group

Any member of an extension group can make a voice announcement to another group member.

An extension group can also be a hunting group.

DISA Ring Group

All extensions in a DISA ring group assigned as an auto attendant destination will ring simultaneously.

UCD Group

One extension group assigned as the UCD group can be the destination of incoming outside calls via the UCD feature.

Extension Hunting

If a called extension is busy, Extension Hunting redirects the incoming call to an idle extension in an extension group in numerical order. Idle extensions are automatically hunted according to programming. The following 2 hunting types are available.

Circular hunting

The extensions are hunted one time in numerical order. If all extensions are busy, busy tone will be heard.

Terminate hunting

The extensions are hunted until the extension which has the highest extension number in the group is reached. If all higher order numbers are busy, the search will end and busy tone will be heard.

Extension Lock

Allows an extension user to lock their extension so that other users cannot make outside calls until it is unlocked. Any 4-digit code can be used to lock and unlock an extension.

The operator and manager are given the privilege of controlling Electronic Extension Lockout at any extension by using the DSS console. The operator and manager can see the status of each extension, locked or unlocked, using the pre-assigned DSS button LED on the DSS console. For example, this feature is useful for a small hotel or motel when guests are checked out.

The operator and manager can cancel Electronic Extension Lockout of all extensions at one time.

External Feature Access

Allows an extension user to access special features (e.g. Call Waiting) offered by the Local Exchange or host PBX. This is done by placing the current call on hold and sending a recall signal using either the RECALL button or the feature number. This feature is effective only during an outside call.

Flexible Buttons

A proprietary telephone user can change the flexible buttons on the telephone and DSS console to certain function buttons. For example, if the telephone has more line keys than available exchange lines, the unused line keys may be changed to One-Touch Dialling buttons, etc.

Handsfree Answerback

Allows a proprietary telephone with a speakerphone to answer an intercom call without lifting the handset. This feature performed by pressing the AUTO ANSWER/MUTE button to prepare the telephone to perform this operation. Intercom calls will cause the telephone to emit a warning tone and then switch on the speaker phone.

Handsfree Operation

Allows a proprietary telephone user to dial and talk to the other party without lifting the handset.

Hold

Allows an extension user to place an intercom and/or outside call on hold. The held call can be retrieved by the user who held it, or by any other extension (Call Hold Retrieve). With a single line telephone (SLT), either one outside or intercom call can be held at one time

Exclusive Hold

Allows a proprietary telephone user to prevent other extension users from retrieving their held call. Only the user who held the call can retrieve it.

Intercept Routing

Provides automatic redirection of incoming outside calls via the DISA or UCD feature. The Intercept Routing feature works in the following 2 cases.

- 1) When nothing is dialled after a dial tone or OGM is sent to the caller. (The DISA feature only)
- 2) When the call is not answered within a programmed time. This is called Intercept Routing – No Answer (IRNA).

Language Selection

English, Spanish or Portuguese language can be displayed on the LCD display of a proprietary telephone during operation and Proprietary Telephone Settings, but not used during System Programming. The selected language can also be used for the SMDR printout.

Limited Call Duration

The system disconnects outside outgoing calls when a specific timer expires. The timer is in effect when making an outside call, transferring an intercom call to an exchange line or forwarding an intercom call to an exchange line. Limiting the time of the call can be assigned through System Programming.

Line Access Keys

The flexible line keys on a Proprietary Telephone may be set to any of the following three functions:

Trunk Group (G-CO) Key

Receiving or making outside calls is on a trunk group basis. The trunk group is assigned in program [404]. Any incoming call from any exchange line in the trunk group arrives at the G-CO key. To make an outside call, the user can access an idle exchange line in the group by simply pressing the assigned G-CO key.

Single Exchange Line (S-CO) Key

Receiving or making outside calls is done using a specific exchange line. An incoming call from the specific exchange line arrives at the S-CO key. To make an outside call, the user can access the specific exchange line by simply pressing the assigned S-CO key.

Other Exchange Line (O-CO) Key

Exchange lines, which are not assigned to an S-CO or G-CO key, can be assigned to a flexible line key as the O-CO key. An incoming call on an exchange line arrives at the O-CO. To make an outside call, the user simply presses the assigned O-CO key.

Log-In/Log-Out

Allows an extension user to Log-In (join) or Log-Out (leave) a hunting, DISA ring or UCD group temporarily. Extensions in the log-out mode will not receive calls by Extension Hunting, DISA or UCD but will receive other calls, not like the Do Not Disturb (DND) feature. The Log-In/Log-Out button can be assigned to a flexible button in the Proprietary Telephone Settings. The lighting patterns of the Log-In/Log-Out button on a proprietary telephone and status are as follows.

Off: Log-In mode

Red: Log-Out mode

Message Waiting

Allows an extension user to notify an extension of a message waiting when the extension is busy or does not answer the call. Only a proprietary telephone user with a MESSAGE button can receive a message. If the LED on the MESSAGE button lights red there is a message waiting. Pressing the lit MESSAGE button will reply to the message by calling the extension which left the message. The messages which are stored in the mailbox of the Voice Processing System can also be heard by following the Voice Mail prompts after pressing the lit MESSAGE button.

Music on Hold / Background Music (BGM)

An external music source may be connected to the system to provide music to callers on hold and background music through the speakers of proprietary telephones.

One-Touch Dialling

Allows a proprietary telephone user one-touch access to a telephone number or system feature.

This is done by storing an extension number, telephone number or a feature number (up to 24 digits) in a One-Touch Dialling button. One-Touch Dialling buttons can be assigned to flexible buttons on a Proprietary Telephone.

Operator / Manager Extension

The system supports one operator. Any extension can be designated as an operator. Extension port 01 is the system manager extension. The extension assigned as an operator or manager has the ability to perform the following operations.

- Setting the Date and Time
- Cancelling the Electronic Extension Lockout
- Setting/Cancelling the Remote Extension Lock
- Setting/Cancelling/Confirming the Timed Reminder (Wake-up Call) Remotely
- Recording and Playing the Outgoing Message
- Changing the Day/Night/Lunch Mode

The manager extension can also perform System Programming and the following operation.

- Setting the Extension Password

Operator Call

Allows an extension user to call an operator within the system by dialling 0.

Outgoing Message (OGM)

Allows the extension assigned as an operator or manager to record up to 2 outgoing voice messages (maximum 30 seconds each). This message is played when a caller accesses the DISA or UCD feature. An optional OGM/FAX Detection Card is required to program the OGM.

Outside Calling

Allows an extension user to make a call to an external party by using one of the following line access methods.

Automatic Line Access

By dialling 9 an extension user will select an idle exchange line automatically from the dial 9 group. For a proprietary telephone, a Line Access Key assignment (S-CO,G-CO,O-CO) in the Proprietary Telephone Settings is required. If Idle Line Preference is set on the telephone in the Proprietary Telephone Settings, the user can access an idle line only by going off-hook.

Individual Line Access

Allows a proprietary telephone user to select the desired exchange line by pressing the line key assigned as an S-CO key.

Trunk Group Access

Allows an extension user to select an idle line within a designated trunk group. To specify a trunk group, dial the feature number “8” and the desired trunk group number (1 through 6). A proprietary telephone user can also specify a trunk group by pressing a G-CO key.

Paging

Allows an extension user to make a voice announcement to several people at the same time. The message is announced over the built-in speakers of proprietary telephones and/or the external pager. The paged person can answer the page from any extension within the system. The following types are available.

All Extensions

Makes a voice announcement to all extensions over the built-in speakers of proprietary telephones.

Group

Makes a voice announcement to the designated extension group over the built-in speakers of proprietary telephones.

External

Makes a voice announcement over the external pager.

All Extensions & External

Makes a voice announcement to all extensions over the built-in speakers of proprietary telephones and the external pager.

Paralleled Telephone Connection

Any proprietary telephone can be connected in parallel with a single line device, such as a single line telephone, cordless telephone, modem or facsimile.

Personal Speed Dialling

Allows an extension user to store up to 10 speed dialling numbers (0 through 9) with a maximum of 24 digits per number. An extension number, telephone number or feature number can be stored. For example, storing extension numbers for each room in a house can be useful. (1 = Living Room, 2 = Kitchen, etc.) To make a call, dial # and the number.

Pickup Dialling

Allows a single line telephone user to make an outgoing call by going off-hook, if the user has stored the telephone number (up to 32 digits) beforehand. This feature is also known as “Pick Up Dial” or “Hot Line”.

Polarity Reverse Detection

The circuit in the system can detect the reversal of exchange line polarity from the Local Exchange when making an outside call. This detects answer (the called party goes off-hook) and end (the called party goes on-hook) of an outgoing outside call. The conversation time can be verified on the SMDR printout using this feature. When an outside call is received, the circuit can also detect the polarity reverse signal before ringing helping to prevent call collision.

Power Failure Transfer

During power failure, specific extension telephones are automatically connected to specific exchange lines. This allows limited operation between the following extensions and exchange lines.

Exchange line 1: extension port 01

Exchange line 4: extension port 09

Preferred Line Assignment — Incoming

A proprietary telephone user can select the method to answer incoming outside calls from the following 3 line preferences. System Programming and Proprietary Telephone Settings are required.

No Line Preference (Manual Answer)

When an incoming call is received, the extension user must go off-hook and then press the flashing line key.

Prime Line Preference

When more than one incoming calls are received at the same time, the user can receive the call on the preferred exchange line by only going off-hook.

Ring Line Preference

When an incoming call is received, the user can receive the call ringing at their telephone by going off-hook.

Preferred Line Assignment — Outgoing

A proprietary telephone user can select a desired outgoing line preference to make outside calls from the following 3 line preferences. System Programming and Proprietary Telephone Settings are required.

Idle Line Preference

When the user goes off-hook, they are connected to an idle line. An idle line is automatically selected.

Prime Line Preference

When the user goes off-hook, they are connected to their pre-assigned line. Assign one prime line beforehand.

No Line Preference

No line is selected when the user goes off-hook. They must select a line to make a call.

Recall

The RECALL button is used to allow a proprietary telephone user to access BT “Star Services” or features of a host PBX. It may also be used to disconnect the current call and originate another call without hanging up.

Recall Button on a Single Line Telephone

Pressing the Recall button is used to allow a single line telephone user to hold a call for transferring or holding.

Redial

Last Number Redial

Every extension automatically saves the last telephone number dialled so that the extension user can make a call to the same party later using a simple operation.

Saved Number Redial

Allows a proprietary telephone user to save the current external telephone number in the SAVE button during a conversation, so that the extension user can redial the same party later using a simple operation. The saved number can be redialled until another number is stored. A flexible button can be assigned as the SAVE button in the Proprietary Telephone Settings.

Ringing Pattern Selection

A ringing pattern can be selected depending on the type of call such as an outside call, intercom call and doorphone call. There are 4 ringing patterns available

Room Monitor

Allows a proprietary telephone or single line telephone with a MUTE button to monitor a room or the front door through another proprietary telephone or doorphone without them knowing. The access tone will not be sent to the monitored proprietary telephone when monitoring starts.

Secret Dialling

Allows a proprietary telephone user to conceal all or part(s) of a System Speed Dialling number or One-Touch Dialling number which would normally appear on the display.

Self-Extension Number Confirmation (KX-T7130 only)

Allows a display proprietary telephone user to confirm their jack and extension number.

Station Message Detail Recording (SMDR)

Station Message Detail Recording (SMDR) automatically prints out detailed call information of outside calls. A printer connected to the Serial Interface (RS-232C) port can be used to print incoming and outgoing outside calls, as well as print a hard copy of System Programming. The following items are recorded as part of the call logging report:
Date, Time, Extension, Exchange Line, Dialed number, Duration and Account Code

System Speed Dialling

The system supports 100 System Speed Dial numbers of up to 32 digits that are available to all extension users. Each System Speed Dial number can be assigned a name. The assigned name will be displayed when making a call by using the System Speed Dialling feature. It will also be displayed when an external caller's telephone number matches one of the System Speed Dialling numbers when the Telephone Company does not provide the caller's name.

Timed Reminder

Allows an extension user to generate an alarm tone at a preset time as a wake-up alarm or a reminder. The user can set this to be activated once or everyday.

Timed Reminder, Remote (Wake-Up Call)

The operator or manager can remotely set, cancel and confirm the Timed Reminder of the desired extension. For example, this is useful for a small hotel or motel to set an alarm call for an extension in a guest room as a wake-up call, or set an alarm call for an extension in a child's room.

Time (Day/Night/Lunch) Service

The system supports day, night and lunch operation modes. The system operation for making and receiving calls can be different for each mode. The system operation for call barring can be arranged to prevent unauthorised calls for each mode. Time service can be set automatically or manually by programming.

Uniform Call Distribution (UCD)

Distributes incoming calls evenly to extensions within the group. Calls to the UCD group hunt for an idle extension in numerical order. The second call that arrives will cause the system to hunt for an idle extension starting with the next highest port number above the extension that took the last call. The UCD feature is particularly helpful when a certain extension receives a high volume of calls compared with other extensions.

Voice Mail Integration

This system supports Voice Processing System (VPS) equipment by sending DTMF tones. The DTMF tones sent to a VPS indicate the state of a call (busy, answered, ringing, disconnected, etc.). The DTMF tones also inform a VPS of the destination of a call transferred to the VPS by the Call Forwarding or by the DISA Intercept Routing – No Answer feature. Up to 4 VPS systems can be connected to the extension ports as extensions in of the system.

Walking Class Of Service

Allows an extension user who is not at their own telephone to override the call barring Class Of Service (COS) number of another extension by dialling their extension password. For the duration of the call, the COS of the extension is changed to the COS of their own extension.

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