

# KX-TA824

Advanced Hybrid Telephone System

residential



**Panasonic**  
ideas for life



**The Panasonic KX-TA824 Advanced Hybrid System is expressly designed to maximize home communications in your home. With its wide array of features, it offers the functions of both a telephone system and an intercom system, plus a whole lot more.**

**The KX-TA824 offers a variety of options to enable customized solutions. You can assign specific lines to each phone, make room-to-room intercom calls at the touch of a button, forward your calls to an outside location, monitor a room, page all system extensions, enjoy conference calls, and more. So you can tailor your telephone system to the varied needs of your household.**

**This powerful combination of flexibility, high performance and value has made Panasonic Communication Systems number one in Key Telephone/Hybrid Systems\***

## **Expand Your System as Your Needs Grow**

The KX-TA824 system works with standard telephone lines, so you don't need to upgrade your phone service. It features a base configuration of three central office lines and eight stations. It can be easily expanded to up to eight central office lines and 24 stations with the addition of two plug-in cards (models KX-TA82470, KX-TA82483 and KXTA82481).

\*Source: PBI Media, Infotech, Infotrac 2004 full year report for market share in the United States for shipments of Key Telephone/Hybrid Systems.

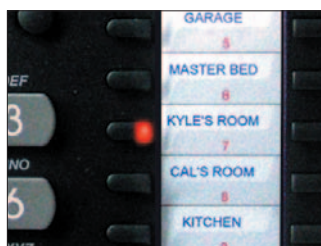
## A Variety of Options

### Room-to-Room Intercom

The KX-TA824 Advanced Hybrid Telephone System's Room-to-Room Intercom takes the place of a traditional intercom while offering easy operation and a host of home conveniences. You can call any room in the house from any telephone in the house. And with the convenient Auto Answer function activated, the person you called may reply without even picking up the telephone. If you're finishing up some important paper work in the home office, this feature lets you speak to family members without leaving your desk.

### Flexible Line Buttons

You can use the central office (CO) line buttons on each proprietary telephone to access a CO line or you can program them for one-touch operation of system features like intercom calling, speed dialing or paging. With the KX-TA824, dialing from room to room is extremely easy. Simply lift the receiver and press the button that is assigned to the room you wish to call. For additional convenience, the different buttons may be clearly labeled via built-in designation strips.



### Flexible Ring Assignment

This feature allows you to dictate which outside lines will ring on each phone. For instance, you can program business lines to ring in the office, and personal lines to ring in the bedroom, kitchen, etc. And if you have a separate line for your children, you can program it to ring only in their rooms.

### Room Monitor

This great feature allows you to monitor your children's activity from any system phone in the house. So you can go about household chores while keeping an ear on the kids. The room being monitored must contain a proprietary system phone with a built-in speakerphone.

### Conferencing

Consolidate your conversations and save time with the call conferencing feature. It allows you to combine two calls from two different lines, so you can talk to both parties at the same time. This feature is great for the home office, and also comes in handy for personal use as well. For instance, parent/teacher discussions can include mom and dad simultaneously with the use of this feature.

### Night Day and Lunch Mode Settings

Using this convenient function, each telephone line in the home can be set to one of three modes (night, day, or lunch) based on changes in operation over the course of the day. You dictate flexible ring assignments and the class of service for each line. For example, you can

program night mode so that when you go to bed, only the phone in the master bedroom will ring. Or you can set the system to lunch mode after business hours, so calls in your home office will be automatically forwarded to voicemail. Additionally, the level of toll restriction can be changed on a per extension basis.

### Optional Built-in Messaging Card (KX-TA82492)

The KX-TA824 can be equipped with an optional messaging card (KX-TA82492) which adds simple voicemail messaging to the system. This 2-port card will store up to 128 messages, and has a maximum recording time of up to 60 minutes. Each extension has its own personal mailbox, and there is also a common mailbox for general messages. Users can record their own personal greeting, which will be played to callers transferred to their mailbox. When a message is left in a mailbox, the system will notify you by turning on the built-in message-waiting lamp on a Panasonic proprietary telephone. Built in Voice Messaging is an affordable solution perfect for your residence and home office.

### Central Office Voice Mail Compatible

The KX-TA824 is compatible with the phone company voice mail service making it very easy to use. The way it works is, phone messages are stored in the voice mailbox at the phone company's central office (CO). Each outside line can be assigned its own CO voice mailbox. When a voice mail message is left on any one of the three outside CO lines, the large message-waiting LED will flash on each system phone and the associated outside CO line button will also flash. By simply pressing the flashing outside CO line button and the "message" button on any extension, the user can access their messages at any time.

### Panasonic Voice Mail System Integration

If you require a fully featured Voice Mail system with a built-in auto attendant the KX-TA824 can be connected to our KX-TVA50 voice processing system utilizing Advanced Proprietary Integration. Advanced Proprietary Integration provides the VPS with more information than traditional Integration. This information enables the system to identify the extension number of the caller, know where, from, and why the call is forwarded, and recognize what the caller wants to do. Some features are available only with Advanced Proprietary Integration (Live Call Screening, Two-Way Recording, Two-Way Transfer, Direct Mailbox Access, Intercom Paging, Auto Configuration, Caller Name Announcement [system/personal], Caller ID Call Routing, Personal Greeting for Caller ID).

### Caller ID, Call Waiting/Logging<sup>1</sup>

With the Caller ID feature, an incoming caller's phone number (or phone number and name if provided by the telephone company) appears on the LCD display of any Panasonic system display telephone. This information is

displayed while the telephone is idle or while you're on a call, allowing you to screen calls at a glance. The KX-TA824 even allows incoming calls to be screened from any display telephone in the house. Calls that are not answered can be recalled by accessing either the personal or system-wide Caller ID log.

### Single-Line Device Integration

The Panasonic KX-TA824 Advanced Hybrid Telephone System allows you to connect many types of single-line devices such as answering machines, cordless phones, fax machines, computer modems, and even your favorite novelty telephone, without the need for additional cards or modules. Additionally, the system can pass Caller ID information to any Caller ID compatible single-line device.

### Backlit Display and Dial Keypad

Easy-to-operate Panasonic KX-T7700 series telephones are perfect for personal and home office use and are designed to match nearly any decor. Their easy-to-see backlit dial keypad makes these phones ideal for use in the bedroom, home theater, or any poorly lit area. Model KX-T7736 includes a 3-line backlit LCD and model KX-T7731 includes a 1-line backlit LCD.

### Doorphone and Door/Gate Opener<sup>2</sup>

Add security to your home with an optional Doorphone and Door Opener Adapter Card. With this option installed, the KX-TA824 can interface with up to four door intercoms (KX-T7775 or KX-T30865) and can control up to four electronic door contact closures. If you have more than one door intercom, you can assign each one a specific ringing pattern<sup>3</sup> to help you determine which intercom was pressed. The KX-T7775 Doorphone is equipped with contacts that allow guests to ring a standard doorbell as well. You can also use the adapter cards to control most low voltage devices.



### System Speed Dial

This function lets you program up to 100 32-digit frequently called numbers into the system for quick and easy dialing from any system phone. So family members, trusted physicians, favorite restaurants for take-out, the local service station and more will be just a push of a button away.

### Toll Restriction

This feature lets you prohibit certain outgoing calls by restricting selected system extensions from accessing specified area codes or exchanges. This can help prevent your children from making long-distance calls. Toll restriction can be changed based on time of day.

### Paging and Page Pickup

This feature allows you to make a voice announcement simultaneously to all proprietary phones in the system.

Simply page and ask the individual you're trying to reach to pick up the nearest phone. Once that person dials the page pickup code, they'll be connected immediately. Rounding up the troops for work or play has never been easier.

### Direct Inward System Access (DISA) with Outgoing Message and Fax Detection<sup>4</sup>

When several family members share one telephone line, you can make sure callers reach their intended party directly using Direct Inward System Access with Outgoing Message and Fax Detection Card. This option has a built-in 3-Level DISA Auto Attendant, which allows you to program up to three messages that will instruct the caller to dial a single-digit code for the desired party. The caller is then routed to the appropriate extension automatically.

DISA also enables you to call into the system from outside your home or office and utilize one of the system's lines to make calls. This feature can be helpful when you need to make calls from a remote location or a cellular phone.

Additionally, if a fax call is received (and a CNG tone is detected) during the outgoing message, the call will be automatically routed to the designated fax extension, eliminating the need for a dedicated fax line.

### Off-Premises Call Forwarding

This feature comes in handy if you're going to be away from your home or home office and don't want to miss any calls. Simply program the system to forward your calls to an outside telephone number or to your cellular phone and you can answer your calls wherever you go.

### Background Music

This feature allows you to connect an appropriate audio source to the system so family members can play music through any proprietary phone in the house with a built-in speakerphone. When the phone rings and the call is answered, the music will temporarily stop. Additionally the music will be played to callers who are placed on system hold.

### PC Programming (Remote and On-Site System Administration)

Your Panasonic dealer can program the KX-TA824 Advanced Hybrid Telephone System utilizing a PC. In addition to quicker installation, this method allows the technician to save a database of your specific network parameters for use in getting the system back up and running quickly in the unlikely event that the system should fail. For remote programming the system is equipped with a built-in modem card, allowing your Panasonic dealer to make changes to your system from their office without having to visit your home. So your system can be adjusted remotely, at no inconvenience to you and your family.

1 – Requires subscription to name-and-number Caller ID service offered by certain telephone companies for a fee. Also requires an optional KX-TA82493 Caller ID card.

2 – Requires an optional KX-T30865 Doorphone and an optional KX-TA82460 Door Opener Adapter Card.

3 – Distinctive ring patterns are only compatible with Panasonic proprietary phones.

4 – Requires an optional KX-TA82491 DISA card.

## Choose From a Wide Range of System Telephones

The Panasonic KX-T7700 series telephones offer a wealth of features from which to choose, so you can build a system that easily fits your family's needs. Flexible CO line buttons, programmable soft keys, monitor speakers, automatic redial and headset

compatibility are among the many features available. Each model comes in either charcoal black or white, so you can choose the phone that best matches the décor of your home.

					
Features	KX-T7750	KX-T7720	KX-T7731	KX-T7736	KX-T7740
Programmable CO Keys	12	12	12	12	
Programmable Feature Keys	12	12	12	12	
Auto Answer/Mute Key		•	•	•	
Monitor	•				
Speakerphone Key with LED Indication		•	•	•	
Transfer Key	•	•	•	•	
Hold Key	•	•	•	•	
Navigation Key			•	•	
Speaker Volume Control	•	•	•	•	
3-Position Ringer Volume Switch	•	•	•	•	
Message/Ringer Lamp	•	•	•	•	
3-Line, 16-Character Backlit LCD Display				•	
1-Line, 16-Character Backlit LCD Display			•		
Backlit Dial Keypad			•	•	
LCD Contrast Adjustment			•	•	
J Type Handset	•	•	•	•	
2.5mm Headset Jack	•	•	•	•	
48-Button DSS Console					•
Colors	Black/White	Black/White	Black/White	Black/White	Black/White

## Add a Wireless System Phone for Productivity and Mobility

The KX-T7885 cordless phone uses Panasonic Sound Charger™ technology for great range and crisp, clear sound. Model KX-TD7895 adds Digital Spread Spectrum technology for an even longer range and protection from eavesdropping. Both models feature flexible keys that can be programmed to access central office lines or system functions like speed dialing. They also have fixed keys for intercom, hold, redial, conference and transfer functions.

### KX-T7885

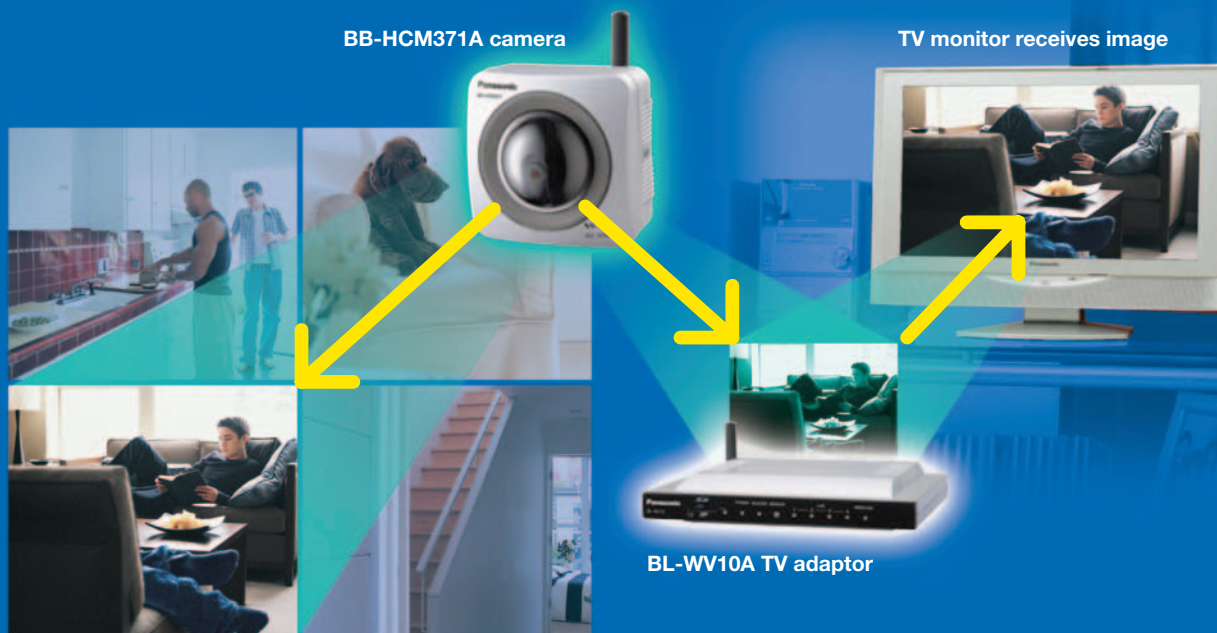


- 12 CO Line Capability
- 3-Line Multi-Function Backlit LCD Readout
- Caller ID Compatible<sup>1</sup>
- Headset Jack & Belt Clip
- Message Waiting Indicator
- Long-Life Nickel Metal Hydride Battery
- Vibrating or Ringer Signal

### KX-TD7895



- Digital Spread Spectrum Technology
- 12 CO Line Capability
- 3 Line, Multi-Function, Backlit LCD Readout
- Caller ID Compatible<sup>1</sup>
- Headset Jack and Belt Clip
- Message Waiting Indicator
- Long-Life Nickel Metal Hydride Battery
- Vibrating or Ringer Signal



## IP Camera Compatibility

For added security and monitoring of your house when you are away from home, Panasonic offers a wide range of Network Cameras. You can check the images on your PC, on your cell phone while you're on the go, or, with the optional TV adaptor, right on your living room TV using the built in web page. The cameras are easy to use and all you need to set one up in your home is a broadband connection.

Most of the Panasonic network cameras are equipped with built in I/O connectors for sensors, microphones, speakers and external device control, making it easy to integrate with the KX-TA824. For example, by placing a camera at the entrance of your home and connecting it to the Panasonic KX-T7775 door phone, you can see who's at the front door when the doorphone button is pressed. You can even open the door when it's connected to an electric door strike.

## Choose Voice Processing for Additional Options

By adding an optional Panasonic KX-TVA50 Voice Processing System, you can enjoy automated attendant services, individual voice mailboxes and more – without expensive software or hardware upgrades. And when the KX-TA824 Advanced Hybrid Telephone System is integrated with the KX-TVA50 Voice Processing System, you can benefit from the advanced features listed below. With all of these choices, it's easy to custom-design a system that's just right for your home.

- Caller ID Call Routing
- Caller ID Screening
- Caller ID Name Announce
- Intercom Paging
- Trunk Service
- Automatic Login
- Toll Saver
- Live Call Screening
- Two-way Record
- Two-way Transfer
- Personal Greeting for Caller ID



## KX-TA824 Features List

### System Features

Auto Attendant DISA (3 Levels)  
 Account Code Entry  
 Alternate Calling - Ring/Voice  
 Analog CO Line Auto-Configuration  
 Automatic Callback Busy  
 Automatic Hold by CO/DSS Button  
 Automatic Outside (CO) Line Access  
 Automatic Pause Insertion  
 Automatic Redial  
 BGM Through External Pager  
 Busy Station Signaling (BSS)  
 Call Forwarding - All Calls  
 Call Forwarding - Busy/No Answer  
 Call Forwarding - Follow Me  
 Call Forwarding - To Trunk  
 Call Hold - Intercom & Trunk  
 Call Hold Retrieve - Station & Trunk  
 Call Park  
 Call Pickup Deny  
 Call Retrieving from a TAM  
 Call Splitting  
 Call Transfer - to Outside (CO) Line  
 Call Waiting  
 Calling Party Control (CPC) Signal Detection  
 Conference  
 Consultation Hold  
 Date and Time Setting  
 Data Line Security  
 Direct In Lines (DIL)  
 Direct Inward System Access (DISA)  
 Directed Call Pickup  
 Distinctive Dial Tones  
 Do Not Disturb (DND) Override  
 Door Opener  
 Doorbell/Door Chime Connection

Doorphone Call  
 DSS Console  
 Electronic Station Lockout  
 Electronic Station Lockout - Cancel All  
 Emergency Call  
 Exclusive Hold - Intercom & Trunk  
 Executive Busy Override - Extension  
 Executive Busy Override - Outside (CO) Line  
 Executive Busy Override Deny  
 Extension Group  
 External Feature Access  
 FAX Detection Using DISA  
 Flash  
 Flexible Numbering Extension  
 Group Call Pickup  
 Hands-Free Answerback  
 Hands-Free Operation  
 Idle Line Preference  
 Intercept Routing (DISA Only)  
 Intercom Calling  
 Last Number Redial  
 Limited Call Duration  
 Log-In/Log-Out  
 Music on Hold  
 No Line Preference - Incoming  
 One-Touch Dialing  
 Operator Call  
 Operator/Manager Extension  
 Outgoing Message (OGM)  
 Outside (CO) Line Ringing Selection  
 Outside Calling  
 Paging - External  
 Paging Through Built-in Speaker - All Calls  
 Paging Through Built-in Speaker - Group  
 Paralleled Telephone Connection

Personal Speed Dialing  
 Pickup Dialing  
 Power Failure Transfer  
 Prime Line Preference - Incoming  
 Prime Line Preference - Outgoing  
 Proprietary Telephone Setting Data Default Set  
 Pulse to Tone Conversion  
 Remote Station Lock Control  
 Ringing Line Preference  
 Ringing Pattern Selection  
 Room Monitor  
 Saved Number Redial  
 Screened Call Transfer - to Extension  
 Secret Dialing  
 Simple Voice Message feature  
 Station Hunting - Circular  
 Station Hunting - Terminate  
 Station Message Detail Recording  
 SMDR  
 System Administration On-Site  
 System Administration PC Remote and Onsite  
 System Data Default Set  
 System Speed Dialing  
 Time (Day/Night/Lunch) Service  
 Timed Reminder  
 Timed Reminder, Remote (Wake-Up Call)  
 Toll Restriction  
 Toll Restriction for Special  
 Carrier Access  
 Toll Restriction Override  
 Toll Restriction Override-System Speed Dialing  
 Unattended Conference  
 Unscreened Call Transfer - to Extension  
 Unscreened Call Transfer to Outside (CO) Line

Voice Mail Integration  
 Walking COS

### Telephone Features

Message Waiting for Another Extension  
 Absent Message Capability  
 Analog Caller ID Call Waiting from Central Office  
 Analog Caller ID for Extension (FSK)  
 Analog Caller ID from Central Office  
 Background Music (BGM)  
 Call Log Information, Incoming  
 Call Log Lock, Incoming in the Common Area  
 Call Log Lock, Incoming in the Personal Area  
 Call Log, Incoming in the Common Area - CLEAR ALL  
 Extension Button Confirmation  
 Flexible Buttons  
 Handset/Headset Selection  
 Line Access Buttons  
 Message Waiting  
 Microphone Mute  
 Self-Extension Number Confirmation  
 Volume Controls

## Specifications: KX-TA824 Control Unit

Capacity:	3-8 CO Lines, 8-24 Extensions
Intercom Path:	4 Paths
Dialing Method:	External: Tone/Pulse (10 pps, 20 pps) Internal: Tone/Pulse (10 pps, 20 pps)

Dialing Conversion:	Tone to Pulse or Pulse to Tone
Switching:	Space Division CMOS Crosspoint Switch
Power Failure:	Transfer: 2 CO Lines to Pre-Assigned Extensions

Backup:	Several Hours with UPS (depending upon use)
Connections:	CO Lines: Modular Jack (RJ-11)
Intercom:	4-Pin Modular Connector (RJ-14)
Paging:	Phono Jack

External Music:	2-Conductor Jack
SMDR:	RS-232C Interface Port (D-Sub, 9-Pin)
Power Source:	AC 120V, 60Hz
Dimensions (H x W x D):	11-3/4" x 14-1/2" x 4"
Weight:	11.7 lbs.

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