

# KX-TA824

Advanced Hybrid Telephone System

b u s i n e s s



**Panasonic**  
**ideas for life**



**The Panasonic KX-TA824 Advanced Hybrid Telephone System is expressly designed to streamline office communications by organizing your phone lines into a cohesive system and making a host of advanced features available to each extension.**

**The KX-TA824 offers a variety of options to enable customized solutions. You can assign specific lines to each phone, make office-to-office intercom calls, forward your calls to an outside location or your cell phone, page all system extensions, and much more. So you can tailor your telephone system to the varied needs of your office.**

**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 KX-TA82481).

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

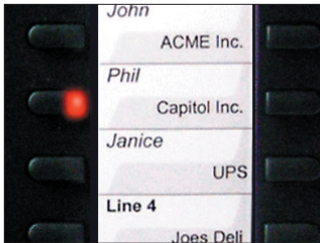
# A Variety of Options

## Intercom

Contacting a co-worker is simple with the KX-TA824 Advanced Hybrid Telephone System's intercom feature. The caller may dial the extension or simply press a preprogrammed intercom key to make the call. With the convenient Auto Answer function activated, the recipient's phone will emit a tone, the display will show the name of the caller (requires a 7700 series display speakerphone), and the recipient can reply without touching the telephone. For use in larger offices, the system can be equipped with a KX-T7740 DSS console for one-button calling to all extensions.

## 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. All phones have a built in designation strip that can be custom printed, making it easy to access features or call a co-worker.



## Flexible Ring Assignment

This feature allows you to dictate which outside lines will ring on each phone. For example, an 800 number for sales may be assigned to ring only on phones in the sales department. Additionally, ring assignments may be programmed to shift based on time of day.

## Night, Day and Lunch Modes

The system can be set to three modes based on changes in the operation of each telephone over the course of the day. The variables for each mode include toll restriction level, ring assignment and class of service. For example, you may program Night Mode so that all incoming calls will be forwarded to voice mail and all long-distance outgoing calls will be restricted.

## 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 a Panasonic system display telephone. This information is displayed while the telephone is idle or while the recipient is on a call, allowing users to screen calls at a glance. Calls that are not answered can be recalled by accessing either the personal or system-wide Caller ID log.

## Backlit Display and Dial Keypad

Easy-to-operate Panasonic KX-T7700 series telephones

are perfect for most business applications, and are designed to match nearly any decor. Their easy-to-see backlit dial keypad makes these phones ideal for installation in restaurants, movie theaters, or any setting where a telephone is located in a poorly lit area. Model KX-T7736 includes a 3-line backlit LCD and model KX-T7731 includes a 1-line backlit LCD.

## Single-Line Device Integration with FSK Caller ID Compatibility<sup>1</sup>

The Panasonic KX-TA824 Advanced Hybrid Telephone Systems allow you to connect many types of single-line devices such as answering machines, cordless phones, fax machines, and computer modems, without the need for additional cards or modules. The system can also pass Caller ID information to any one of these devices so you can use your fax machine's Caller ID logging function.

## Off-Premises Call Forwarding

This feature comes in handy if you're going to be away from your business 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. Office calls can be forwarded to your home, so you can work out of your home office without missing a call.

## 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 when they are transferred into a users 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. This affordable solution provides basic voice messaging perfect for small businesses that do not require a fully featured voice processing system.

## Central Office Voice Mail Compatible

If you subscribe to phone company voice mail service the user's phone messages are stored in their 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. This Advanced Proprietary Integration provides the VPS with more information than Touchtone 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).

## System Speed Dial

If you contact the same suppliers or customers on a regular basis, this function can greatly streamline the process. It allows you to program up to 100 32-digit frequently called numbers into the system for quick and easy dialing from any system phone.

## 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.

## Paging and Page Pickup

This feature allows you to make a voice announcement simultaneously to all proprietary phones in the system without the use of external paging equipment. It can help you round up employees for a meeting or locate someone in your business. 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.

## Toll Restriction

This feature lets you prohibit certain outgoing calls by restricting selected system extensions from accessing specified area codes or exchanges. Toll restriction can be changed based on time of day, and can be used to prevent personnel from making long-distance calls after hours.

## Direct Inward System Access (DISA) with Outgoing Message and Fax Detection<sup>2</sup>

Customer service is key for most businesses. Making sure your customers reach their intended party directly can be done easily using the Direct Inward System Access with Outgoing Message and Fax Detection. 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 or department. The caller is then routed to the desired

extension or department automatically. With this option, all your business calls will be handled professionally via the same line.

DISA also enables you to call into the system from outside your office and utilize one of the system's lines to make calls. This feature can be helpful for instances in which it's more economical to make a call using your office line than to directly call using your cellular telephone.

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.

## Doorphone and Door Opener<sup>3</sup>

Add security to your business with an optional Doorphone and Door Opener Adapter Card. With this option installed, the Advanced Hybrid Telephone System can interface with up to four door intercoms and 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>4</sup> to help you determine which intercom was pressed. You can also use the adapter cards to control most low voltage devices.

## 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 if the system should fail. The system is equipped with a built-in modem card for remote programming, allowing your Panasonic dealer to make changes to your system from their office without having to visit your location. So your system can be adjusted remotely during off-peak hours, at no inconvenience to your business.

## Music / Message On Hold

The KX-TA824 is equipped with an audio jack for connection to a message on hold device or a music source that will be played to callers placed on hold. By connecting a message on hold device you customers on hold can hear your custom recorded message. This is a great way to promote your business, make important announcements or communicate office hours.

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-TA82491 DISA card.

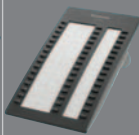
3 – Requires an optional KX-T30865 Doorphone and an optional KX-TA82460 Door Opener Adapter Card.

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

# 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 business'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 office.

|                                          |  |  |  |  |  |
|------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 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

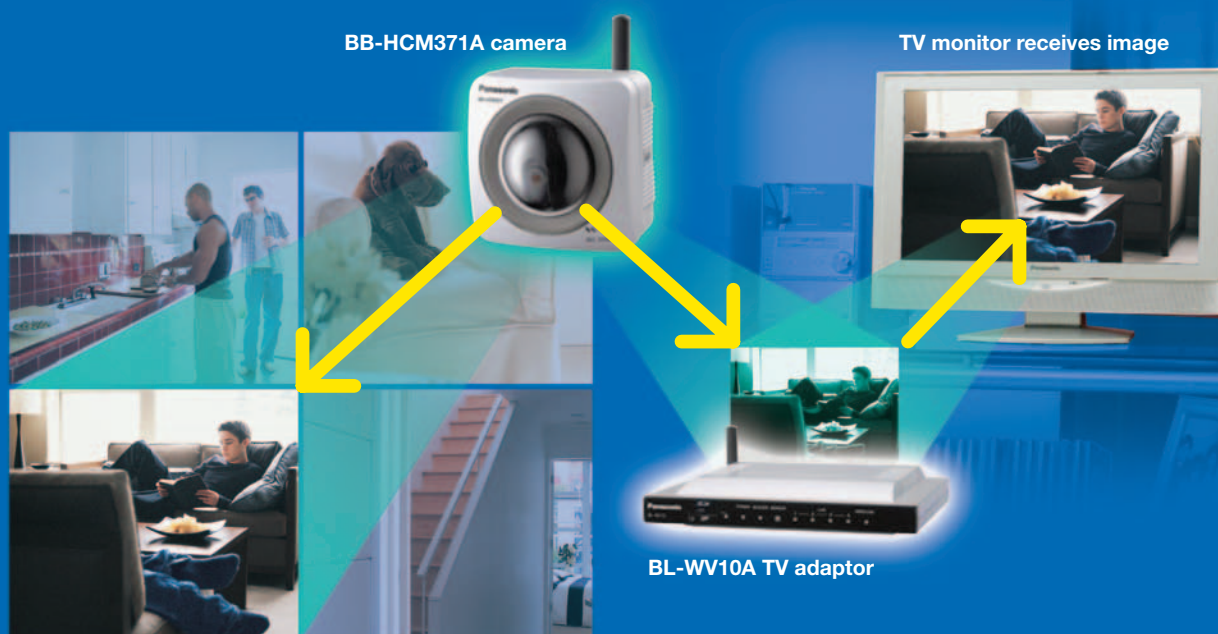
- 12 CO Line Capability
- 3-Line Multi-Function Backlit LCD Readout
- Caller ID Compatible<sup>1</sup>
- Headset Jack & Belt Clip
- Message Waiting Indicator
- Long-Life Nickel Metal Hydride Battery
- Vibrating or Ringer Signal



### 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 business when you are not in the office, Panasonic offers a wide range of Network Cameras. You can check the images on your PC, or on your compatible cell phone or PDA while you're on the go using the built in web page. The cameras are easy to use, and all you need to set one up in your business 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 business 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  
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)<br>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-Assigend 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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