XAP[™] IR Remote Control System



Installation & Operation Manual





Installation & Operation Manual





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XAP IR Remote Control Installation and Operation Manual

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Congratulations

The XAP[™] IR Remote Control System is designed to allow easy operation of XAP products from your desk or conference table, rather than from the front panel or G-Ware[™] software of your Gentner audio conferencing products or an expensive external controller.

It is made up of two components: the handheld infrared transmitter (remote control) and the base station infrared receiver. The remote control is used to operate or customize certain features of the XAP system, such as connect, disconnect, dial a telephone number, redial, activate speed dial, hook flash, adjust volume, and mute the microphones.

The XAP IR Remote functions with various XAP stand-alone or combined systems. The remote's default programming can be easily customized to fit your needs by using G-Ware, the XAP system's configuration software. In the event of a power outage, the new programming will be stored in the receiver's memory and will not be lost or altered. The remote also provides positive feedback for the Mute LED and In Use LED by actively monitoring the response of the controlled unit(s) and indicating the correct status of each function.

Unpacking

You should have received the following items with each XAP IR Remote you have purchased.





AAA Batteries (2) Part 590-002-001

Figure 1.1 XAP IR Remote System

Gentner Communications is not responsible for product damage incurred during shipment. You must make claims directly with the carrier. Inspect your shipment carefully for obvious signs of damage. If the shipment appears to be damaged, retain the original boxes and packing material for inspection by the carrier. Contact your carrier immediately.





Product Registration

Please register your XAP Infrared Remote Control System online by visiting www.gentner.com. When your product is properly registered, Gentner Communications is better able to serve you should you require technical assistance. Registration information is also used to notify you of upgrades, new product information, etc.

Professional Services Group

For additional help on how to install, set up, or operate the XAP IR Remote Control, please contact Gentner Technical Services Group at the number at the bottom of the page. We welcome your comments so we can continue to improve our products and serve your needs.

If you need to return your XAP IR unit to Gentner for service, please call the Technical Services Group to obtain a return authorization number.

Gentner Communications Corporation

1825 Research Way, Salt Lake City, UT 84119 Web site: www.gentner.com

Technical Services

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CHAPTER 2: Installation



XAP 1R Remote Receiver

Installation

Installation is simple. Plug the XAP IR Remote Receiver into the RS-485 Remote Panel A or Remote Panel B connector located on the back of the Gentner unit.

Alternatively, you can connect the receiver to a network of Gentner Control Panels which are connected to one of the RS-485 ports on the rear of the Gentner unit. **In this case, connect the IR receiver as the last device in the daisy chain.** Up to five control panels and one IR receiver can be connected to an RS-485 port.

Refer to the table below for maximum cable runs using category five twistedpair cable when installing the IR receiver.

# of Remote Devices	Maximum Distance
1	3,000 ft/914 meters
2	2,500 ft/762 meters
3	1,600 ft/488 meters
4	1,200 ft/366 meters
5	1,000 ft/305 meters
6	800 ft/244 meters





Figure 2.2 Category five cable run distances





```
information.
```

On On Off Off Off Off On Off Off On Off Off Figure 2.4 DIP switch 1-4 settings

Off

Off

Off

Always connect the IR E Remote receiver to the last Control Panel when connecting to a daisy chain of Control Panels. Only the last device in a daisy chain should have the last DIP switch set to OFF, or

DIP Switch

Off On

2 3 4 5

Off On On

Οn Off On

0 On On On On Off

1

2 On Off On On Off

3 Off

4

5 Off On Off On Off

6 On Off Off On Off

7 Off Off

8 On On On Off Off

9 Off

10 On

11 Off

Off On On On Off

Οn

IR Remote Receiver Number

terminated.

Installation ~ XAP IR Remote Receiver

Located on the rear of the receiver are five DIP switches. These switches are defaulted at the factory to allow the receiver to operate without adjustment if you are connecting the IR Remote receiver directly to one of the RS-485 Remote Panel ports on the rear of the Gentner conferencing unit.

If you are connecting the IR Remote receiver to a network of Gentner Control Panels (which are connected to one of the Remote Panel ports), set DIP switch 5 to off; this serves as the termination of the daisy chain, since the IR Remote is always connected as the last device in the chain. Set DIP switches 1-4 according to the table in Figure 2.4.

As an example, if you have three Control Panels connected to Remote Panel A and you want to connect an IR Remote receiver to the daisy chain, the receiver would be number 3 (the Control Panels being numbers 0, 1, and 2). Therefore, the DIP switch settings for the IR receiver would be 1=0 ff, 2=0 ff, 3=0 n, 4=0 n, and 5=0ff.

Front Panel LEDs

On the front of the XAP IR Remote Receiver are three LEDs-Mute, In Use, and Ready.

- Mute. The Mute LED flashes red when microphones are muted (default). You can program this LED to illuminate to another command in the Remote Builder window of G-Ware. See Chapter 3: Configuration for more
- In Use. The In Use LED glows red whenever a phone participant is on the line. The programming of this LED cannot be changed.
- **Ready.** The Ready LED glows red when the receiver is connected to a XAP or PSR1212 product, indicating the system is ready for a valid command. The programming of this LED cannot be changed.

When a button is pressed, the Ready LED flashes, indicating a command has been received.



Programming Functions

The XAP Infrared Remote Control is default programmed to operate a single XAP 400 with an amplifier and speaker connected to Output 8; however, it is easy to program should you require different specifications. If you want to use the factory defaults, proceed to Chapter 4: Operation. Below are instructions for setting up the remote control in Gentner G-Ware software, the user interface for XAP products.

XAP IR Remote system defaults

The XAP IR Remote is default programmed to operate the XAP 400/TH2 Telephone Interface as follows: The On, Off, 0-9, *, #, Flash, Redial, Speed Dial, and Conference Call keys are defaulted to activate any XAP 400/TH2 on the expansion bus network regardless of its type and device ID. This is because of the default ** programming, which allows the selection of any device on the network.

Configuring G-Ware Remote Builder

1. Open the Remote Builder window in G-Ware by clicking the Remote Builder Flow Screen button or Remote Builder toolbar button.

Remote Builder - XAP 400 0 (Device ID 0)	_ 🗆 🗙
Select Remote ID Image: Demote ID Change Name	ON OFF
Select Remote Type IR Remote Velophone Interface Select Device Type * (Global) * Select Device ID Select Device ID Select Button / LED Select Button / LED Volume Up Select Compared # BAMP 8.0.3.5	
Inactive Command # RAMP 8 0 0	
Apply Command Description Argument Description Ramps the Gain for an Input, Output, Processor, Telco TX, or Telco RX	A
Type DID Command Channel Group Rate Target Image: Image in the image interval of	•
Data: 🍘 Close	



Buttons programmable in G-Ware are illustrated in Figure 4.1 (page 12)



Figure 3.1 Remote Builder Flow Screen button

-	

Figure 3.2 Remote Builder toolbar button

Figure 3.3 Remote Builder window





- Select a remote ID number from the Select Remote ID list and IR Remote from the Select Remote Type drop-down lists. Note that the Select Remote ID must correspond to the ID you established with the DIP switches (see page 4).
- 3. Click **Change Name** to create a more descriptive name for the remote which is displayed in addition to the remote ID number (limit 20 characters).
- 4. In the Telephone Interface section, select the Device Type and ID of the unit (XAP 400 or XAP TH2) that you want the XAP IR remote to use when making and receiving calls. The default settings are ** which will select any telco device found on the network. If you have multiple telco devices in your network, you must specify which unit will be used to make and receive calls so that multiple telco devices won't be activated.
- Select the button or LED you want to program from the Select Button/LED list. You can also select the button or LED by clicking directly on the picture of the remote. (Selectable buttons are colored white.)
- 6. Click the **Active Command** or **Inactive Command** button to set the command for operation when the button is active or inactive.
- Select the Device Type, ID, and Command from their respective lists. When you select a command, a description of it appears in the Command Description box.
- 8. Select the command parameters from the argument lists. The parameters that are available depend on the command selected. When you select an argument, a description of it appears in the Argument Description box.
- Click the **Apply** button to apply the command to the selected Active or Inactive Command button. Or, click **Clear** to reset the command to default settings.

Repeat steps 5-9 for each additional button you want to configure.

10. Click **Close** to exit the Remote Builder.

Speed dial

The XAP IR Remote Control system supports 10 speed dial numbers. Each number can be 40 digits long and can have a 20 character name. These numbers and labels are stored in non-volatile memory of the XAP conferencing unit and each number can be called by a single command. Any valid touch-tone digit and the pause character (comma) can be stored. All speed dial numbers are empty except for

Device	Туре	ID
PSR1212	4	0-7
XAP 800	5	0-7
XAP TH2	6	0 - F
XAD 400	7	0-7

Configuration ~ Programming Example A

Speed Dial 9, which is programmed with Gentner's technical support number, and Speed Dial 10, which is programmed with the conference calling services number. See page 14 for information about using speed dial numbers.

To configure speed dial numbers

- 1. Click the **Dial** button in the G-Ware Flow Screen. The Dial window opens.
- 2. Click Edit in the Speed Dial section. This opens the Speed Dial Edit window.
- 3. Enter the name and number to dial in the appropriate fields.
- 4. Click **Save** to save changes and exit.

Programming Example A

This example illustrates how to configure the remote control to adjust the speaker output (output 9) of a XAP 400.

To program volume control of output 9





Figure 3.4 Dial button

Figure 3.5 Remote Builder screen with Volume Up button configuration

 Open the Remote Builder window in G-Ware by clicking the Remote Builder Flow Screen button or Remote Builder toolbar button.



- Select the remote ID number of the remote you want to program from the Select Remote ID list and IR Remote from the Select Remote Type dropdown lists.
- Select the Volume Up button from the Select Button/LED list. You can also select the button by clicking directly on the Volume Up button in the remote control depiction.
- 4. Click the **Active Command** button to set the command for operation when the button is active.
- 5. Select 7 (for XAP 400) for the device Type from the **Type** drop-down list.
- 6. Select the appropriate ID of the unit from the **DID** list.
- 7. Select RAMP from the **Command** drop-down list.
- 8. Select channel 9 from the **Channel** list.
- 9. Configure the Group, Rate, and Target lists. The Group list indicates the location of the XAP 400 in a network. The Rate list indicates the number of dB per second that the volume ramps up. The Target list indicates the target dB increase, which is 6dB (a decibel level selected for purposes of this example).
- Click the **Apply** button to apply the command to the selected Active Command button.

To configure the Volume Down button, follow the same procedure, except in Step 3, select the Volume Down button, and in Step 9, select -6 (dB) in the Target list. You would select -6 because you want the Volume Down button to decrease the volume to -6dB. This means the Volume Up/Volume Down range is 12dB.

Click **Close** to exit the Remote Builder.

Device	Туре	ID
PSR1212	4	0-7
XAP 800	5	0-7
XAP TH2	6	0-F
XAP 400	7	0-7

Programming Example B

This example illustrates how to configure the remote control to mute all mics on multiple connected units (in this case, one XAP 400 with a device ID of 0, and one XAP 800). In this example, the XAP IR Remote receiver is connected to the XAP 400.

To mute multiple units

Select Remote ID		a I	MUTE IN USE R	EADY	055
JU Remote U	_	Change Name			OFF
Select Remote Tune				1 2	3
IR Remote	•			4 5	6
	-			7 8	9
				i č	#
I elephone Interface	e				Ö
Select Device Type	,				
XAP 400	•			VOLUME	
Select Device ID					OFF
0	-			0	
					OCRAN
				PLASH RELIAL P	OUICAM
				CONTRACTOR AND A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPT A DESCRIPTION OF A DESCRIPANTA DESCRIPTION OF A DESCRIPTION OF A	
Programmable Buttons / Ll	ED				
Programmable Buttons / Ll Select Button / LED	ED			SPEED CO	FERENCE
Programmable Buttons / Ll Select Button / LED Mute On	ED			SPEED COM	PERENCE
Programmable Buttons / LI Select Button / LED Mute On	ED 🗾			Gentne	FERENCE CALL
Programmable Buttons / LI Select Button / LED Mute On Active Command	ED D MACRO 1			Gentne	FERENCE CALL
Programmable Buttons / LI Select Button / LED Mute On Active Command #70	ED T D MACRO 1			Gentre	FERENCE GALL
Programmable Buttons / LI Select Button / LED Mute On Active Command #70 Inactive Command	ED T D MACRO 1			Gentra	FERENCE ONLI
Programmable Buttons / LI Select Button / LED Mute On Active Command #70 Inactive Command Command Descrit	ED D MACRO 1 ption		Argument Descriptio	Gentre	PERENCE CALL
Programmable Buttons / LI Select Button / LED Mute On Active Command #70 Inactive Command Operation Apply Executes a Macr	ED D MACRO 1 ption ro.		Argument Descriptio	n I to 255.	PERENCE GALL
Programmable Buttons / LI Select Button / LED Mute Dn Active Command #77 Inactive Command Descrip Executes a Macr WARNING: Rec Clear Clear Charter Problems	ED D MACRO 1 ption ro. ursively Callin Ulse Calling	g Macros Will	Argument Descriptio Macro to execute.	n I to 255.	PERENCE CALL
Programmable Buttons / LI Select Button / LED Mute On Active Command #70 Inactive Command Descrip Command Descrip Executes a Macr WARNING: Rec Clear Problems	ED D MACRO 1 D MACRO 1 ption ro. ursively Callin ! Use Cautior	g Macros Will When Calling	Argument Descriptic Macro to execute.	n I to 255.	
Programmable Buttons / LI Select Button / LED Mute On Active Command Inactive Command Inactive Command Command Description Executes a Macription Clear Type DD Command	ED MACRO 1 ption ro. uursively Callin I Use Cautior Macro	g Macros Will When Calling	Argument Descriptic Macro to execute.	n l to 255.	
Programmable Buttons / LI Select Button / LED Mute On Active Command Inactive Command Description Executes a Macric Clear Type DID Command Description Type O MACRO	ED D MACRO 1 ption ro. ursively Callin I Use Caution Macro V 1	g Macros Will When Calling	Argument Descriptic Macro to execute.	n I to 255.	
Programmable Buttons / LI Select Button / LED Mute On Active Command Inactive Command Description Executes a Macriptic Clear Type DID Command 7 0	ED D MACRO 1 D MACRO 1 Pption ro. ursively Callin ! Use Caution Macro Macro 1	g Macros Will When Calling Macro Lab	Argument Descriptic Macro to execute. el cs	n I to 255.	
Programmable Buttons / LI Select Button / LED Mute On Active Command Inactive Command Description Executes a Macric Clear Type DID Command 7 0 MACRO	ED D MACRO 1 ption ro. ursively Callin I Use Caution Macro Macro	g Macros Will When Calling Macro Lab	Argument Descriptic Macro to execute. el cs	n l to 255.	



ID 0-7

0-7

0-F

0-7

 Create two macros (one to mute, one to unmute) to mute all microphone inputs on all connected units. This is accomplished using the Macro Editor in G-Ware. See the respective XAP 400 or XAP 800 manual for details about using the Macro Editor.

The mute macro has the following command lines:DeviceTypeFor the XAP 400: **7 * Mute * M 1**, where 7=Type (XAP 400), *=DIDPSR12124(Device ID), Mute=command, *=Channel, M=(Mic) Group, and 1=MuteXAP 8005Mode (on).XAP 4007





For the XAP 800: 5 * Mute * M 1

The unmute macro has the following command lines:

For the XAP 400: **7 * Mute * M 0** For the XAP 800: **5 * Mute * M 0**

- After you have created and saved the macros, open the Remote Builder screen in G-Ware and select the appropriate remote ID number from the Select Remote ID drop-down list and IR Remote from the Select Remote Type drop-down list.
- 3. Select the Mute On button from the **Select Button/LED** list. You can also select the button by clicking the Mute On button in the remote control depiction.
- 4. Click the **Active Command** button to set the command for operation when the button is active.
- 5. Select 7 (for the XAP 400) for the device Type from the **Type** drop-down list.
- 6. Select 0 for the device ID from the **DID** list.
- 7. Select MACR0 from the **Command** drop-down list.
- Select the macro number of the "mute on" macro you created from the Macro list. The Macro Label field will reflect the name you have given the macro.
- 9. Click the **Apply** button to apply the command to the selected Active Command button.

To configure the Mute Off button, follow the same procedure, except in Step 3, select the Mute Off button, and in Step 8, select the macro number of the "mute off" macro you created.

When you are finished, click **Close** to exit the Remote Builder.



Getting Started

Once your remote is connected to your XAP system, you have configured it, and the Ready LED is lit, you can start using your remote control.

Operation is easy and straightforward. Please consult the diagram on the following page to understand how each button on your remote works.







Figure 4.1 XAP IR Remote Control button descriptions

Remote Control Buttons

While within 25-40 feet of the receiver, point the remote control toward the receiver and press the buttons to operate.

To place a call

- 1. Press Telephone On (green) button. The In Use LED illuminates.
- 2. Wait to hear dial tone.
- 3. Dial telephone number using dial pad. Or, press **Speed Dial** and the location of the speed dial number.

To end a call

 \cdot $\,$ Press Telephone ${\rm Off}$ (red) button. The In Use LED extinguishes.

To adjust the volume in the room

- \cdot $\,$ Press the Volume Up button to raise the volume.
- or –
- Press the Volume Down button to lower the volume.

To mute microphones

• Press the **Mute On** button.

Mute LED will flash on receiver when the Mute function is active. This function mutes all microphones in the room.

To turn off mute

· Press the **Mute Off** button.

Mute LED on receiver will turn off when mute function is off.







ON

OFF







Press the **Flash** button.

To access features from a PBX

Please consult your PBX owner's manual for specific requirements of your individual phone system. G-Ware can be used to adjust the hook flash duration to match your PBX. This setting is located in the Telco Config window in G-Ware.



To redial the last telephone number dialed

· Press the **Redial** button.



To dial a number stored in speed dial

Press the **Speed Dial** button. Select location (0-9) of the speed dial number with the appropriate numeral button. Speed dial memories 1-9 correspond to buttons 1-9; speed dial 10 uses button 0.

Note: In order for the Speed Dial function to work, a telephone number must be programmed into the XAP product. Please see Speed Dial on page 6.



To customize your XAP IR Remote Control System

The Program button is not factory-configured. However, it can be programmed in G-Ware to execute a command.



To dial a conference call center

The Conference Call button is defaulted to dial Gentner's Conference Call services (stored in Speed Dial 10, which uses the 0 button).

Appendices



Appendix A: Specifications

Transmitter

Dimensions (LxWxH): 8" x 2.125" x 1.19" 20.3 cm x 5.4 cm x 3 cm

Battery type: 2 AAA

Battery life: Approximately 1 year

Receiver

Dimensions (LxWxH): 5" x 2.75" x 1" (12.7 cm x 7 cm x 2.54 cm)

Power: Powered by the XAP or PSR1212 system

Cable length: 6' (1.8 m)

System

Range: 25–40 feet (7.5–12 meters) from transmitter to receiver

Angle of acceptance: 90° -120°

Operating temperature: $0-50^{\circ}$ C (32-122° F)

Compliance approvals: FCC, Industry Canada, and CE





Appendix B: Warranty

Gentner Communications Corporation (Manufacturer) warrants that this product is free of defects in both materials and workmanship. Should any part of this product be defective, the Manufacturer agrees, at its option, to:

- A. Repair or replace any defective part free of charge (except transportation charges) for a period of one year from the date of installation for the enduser, provided the owner returns the product to the Manufacturer at the address set forth below. No charge will be made for parts or labor during this period;
- B. Furnish replacement for any defective parts in the product for a period of one year from the date of original purchase. Replacement parts shall be furnished without charge, except labor and transportation.

This Warranty excludes assembled products not manufactured by the Manufacturer whether or not they are incorporated in a Manufacturer product or sold under a Manufacturer part or model number.

THIS WARRANTY IS VOID IF:

- A. The product has been damaged by negligence, accident, act of God, or mishandling, or has not been operated in accordance with the procedures described in the operating and technical instructions; or,
- B. The product has been altered or repaired by other than the Manufacturer or an authorized service representative of the Manufacturer; or,
- C. Adaptations or accessories other than those manufactured or provided by the Manufacturer have been made or attached to the product which, in the determination of the Manufacturer, shall have affected the performance, safety or reliability of the product; or,
- D. The product's original serial number has been modified or removed.

NO OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR USE, APPLIES TO THE PRODUCT. MANUFACTURER'S MAXIMUM LIABILITY HEREUNDER SHALL BE THE AMOUNT PAID BY THE END-USER FOR THE PRODUCT. No person or entity authorized to assume any obligation or other liability in connection with the products. No action, regardless of form, arising out of or relating to the product or this Warranty, may be brought by end-user more than one (1) year after the cause of action has accrued.

Appendix C ~ Compliance

Manufacturer shall not be liable for punitive, consequential, or incidental damages, expenses, or loss of revenue or property, inconvenience, or interruption in operation experienced by the end user due to a malfunction in the purchased product. No warranty service performed on any product shall extend the applicable warranty period.

In case of unsatisfactory operation, the end-user shall promptly notify the Manufacturer at the address set forth below in writing, giving full particulars as to the defects or unsatisfactory operation. Upon receipt of such notice, the Manufacturer will give instructions respecting the shipment of the product, or such other matters as it elects to honor this warranty as above provided. This warranty does not cover damage to the product during shipping and the Manufacturer assumes no responsibility for such damage. All shipping costs shall be paid by the customer.

This warranty extends only to the original end user and is not assignable or transferable. This Warranty is governed by the laws of the State of Utah, without regard to the conflicts of interests provisions thereof.

Gentner Communications Corporation 1825 Research Way Salt Lake City, Utah 84119

Appendix C: Compliance

FCC Part 15 compliance

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his/her own expense.

Changes or modifications not expressly approved by Gentner Communications Corporation could void the user's authority to operate the equipment.



Safety Information

CAUTION: Users should not attempt to make such connections themselves, but should contact the appropriate electrical inspection authority, or electrician, as appropriate.

European Compliance

This equipment has been approved in accordance with Council Directive 1999/5/EC "Radio Equipment and Telecommunications Equipment"



C Conformity of the equipment with the guidelines below is attested by the CE mark.

EC Declaration of Conformity

Application of Council Directive(s):	1999/5/EC Radio equipment and Telecommunications Terminal Equipment (R&TTE) Directive
Manufacturer's Name:	Gentner Communications Corporation
Manufacturer's Address:	1825 West Research Way
	Salt Lake City, Utah 84119 U.S.A.
Model No.:	XAP IR Remote Control
Standard(s) to which Conformity is declared	:
89/336/EEC "Electromagnetic Compatibility	(EMC) Directive":
EN 55022: 1994 (Emissions)	Specification for limits and methods of measurement of radio interference characteristics of information technology equipment.
EN 55022: 1994 (Emissions) EN 55024: 1998 (Immunity)	Specification for limits and methods of measurement of radio interference characteristics of information technology equipment. Information technology equipment – Immunity characteristics – Limits and methods of measurement.
EN 55022: 1994 (Emissions) EN 55024: 1998 (Immunity) EN 61000-4-2: 1995/A1:1998	Specification for limits and methods of measurement of radio interference characteristics of information technology equipment. Information technology equipment – Immunity characteristics – Limits and methods of measurement. Electrostatic Discharge
EN 55022: 1994 (Emissions) EN 55024: 1998 (Immunity) EN 61000-4-2: 1995/A1:1998 EN 61000-4-3: 1996/A1:1998	Specification for limits and methods of measurement of radio interference characteristics of information technology equipment. Information technology equipment – Immunity characteristics – Limits and methods of measurement. Electrostatic Discharge Radiated RF Immunity

Gentner Technical Services Group ~ 1-800-283-5936 (USA) ~ 1-801-974-3760



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