

HELLO

*Executive
Teleconferencer*

User's Manual

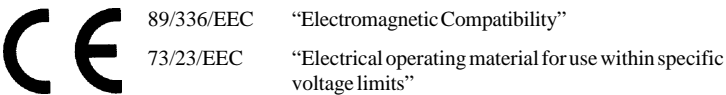
Copyright Information

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Warranty Registration

Please register your ET100 by completing the self-addressed, postage prepaid warranty registration card and return it to Gentner by mail. You may also FAX it to the above number or call Gentner via telephone. When your product is properly registered, Gentner will be able to better serve you should you require technical assistance or desire to receive product upgrades, new product information, etc.

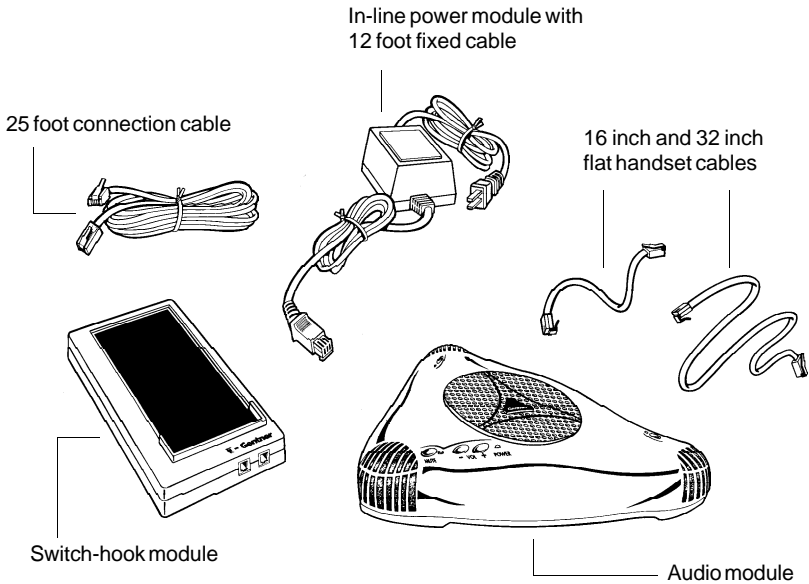
This equipment complies with the requirements of the EU guidelines:



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

Unpacking

Check to see that the following equipment was received with your shipment:



The ET100 user's manual, quick reference instructions, and warranty registration card should also be included with your shipment.

SHIPPING NOTE:

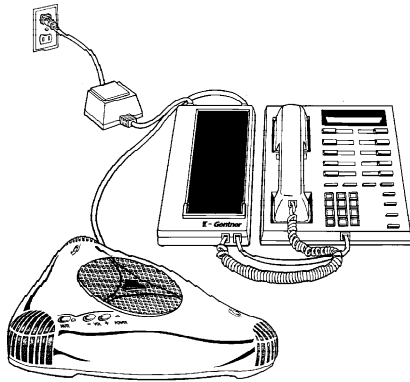
Gentner is not responsible for product damage incurred during shipment. You must make claims directly with the carrier. Inspect your shipment carefully for obvious signs of damage. If the shipment appears to be damaged, retain the original boxes and packing material for inspection by the carrier. Contact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

Installation

The ET100 connects directly to your existing telephone set so that you can maintain all of the functions of your telephone. Follow these step-by-step instructions to install your ET100:

Completed Installation

The following drawing shows the ET100 system when installation is completed.



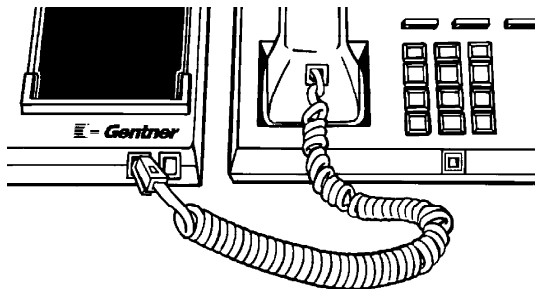
Step 1

A

Unplug the handset cord from the base of your telephone set.

B

Plug the handset cord into the switch-hook module jack on the left (labeled with a curly cord).

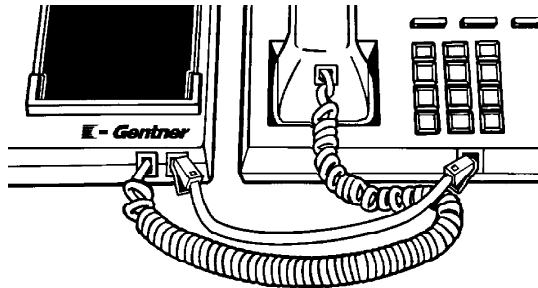


Step 2**A**

Plug one end of the supplied 16 inch or optional 32 inch flat handset cable into the telephone handset jack.

B

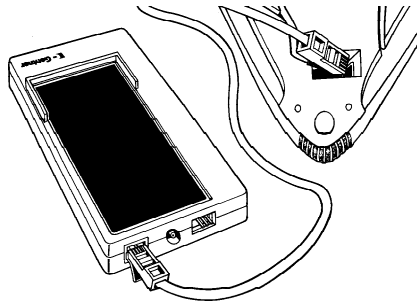
Plug the other end of the flat handset cable into the switch-hook module jack on the right.

**Step 3****A**

Plug one end of the supplied 25 foot connection cable into the switch-hook module jack labeled AUDIO MOD.

B

Plug the other end of the 25 foot connection cable into the bottom of the audio module.

**Step 4**

Place the audio module at the desired conference location.

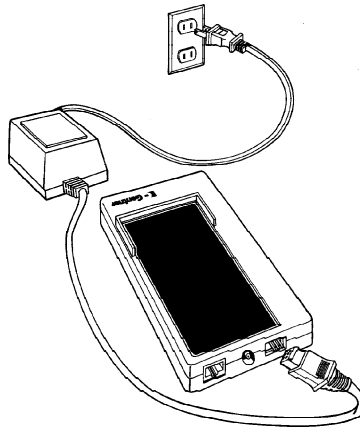
Step 5

A

Plug the white end of the power module with the “NOTCH SIDE” up into the switch-hook module jack labeled DC POWER.

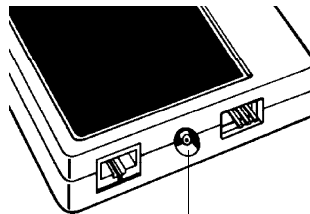
B

Plug the other end of the power module into an electrical power outlet. The audio module power light will glow when power is applied.



Step 6 (Record Option)

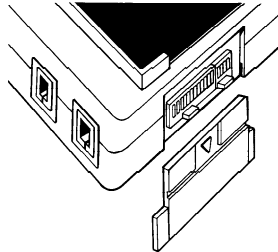
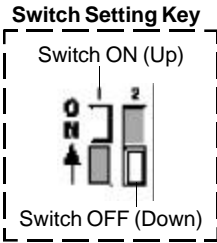
To record your audioconference, connect a tape recorder to the switch-hook module jack labeled TAPE. A standard phono cable is typically supplied with most tape recorders.



Tape recorder connection

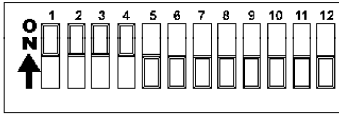
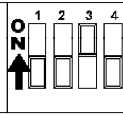
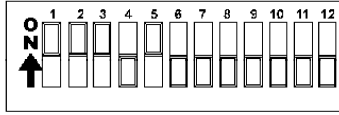
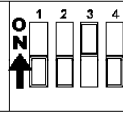
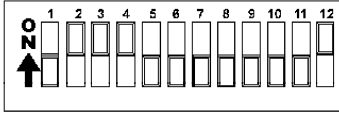
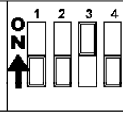
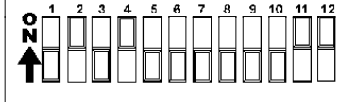
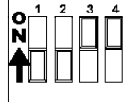
Dip Switch Setup 

Determine the appropriate settings for your particular telephone using the following diagrams. Set the compatibility and sensitivity switches according to your telephone type. These switches are found on the side of the switch-hook module.



TELEPHONE VOLUME NOTE:

For telephones that have handset volume control, set the telephone handset volume at a normal listening level prior to adjusting the ET100.

	Compatibility Switches	Sensitivity Switches
All telephones (with the following exceptions)		
* AT&T Merlin and 7000 Series Voice Terminals		
* Northern Telecom Cebtrex M5009, M5112, M5209, M5312 & M5317		
Seimens Dyad, Jr. Dyad & Digit 260 Console		

* Applies only to telephone models listed. All other models use the "All telephones" settings.

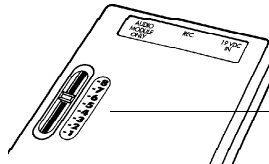
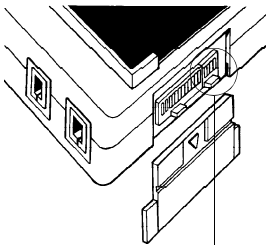
Assisted Setup

Step 1

Pick up your telephone handset and call 1-800-283-5330 (a quiet line used for ET100 setup). When you hear silence on the other end, set the handset down next to your phone (NOT on the switch-hook module).

Step 2

Press and hold any MUTE button on the audio module for a few seconds, until you hear the prompt "setup enabled." The POWER light will be flashing red.



Slide control on the bottom of the switch-hook module

Step 3

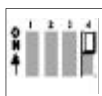
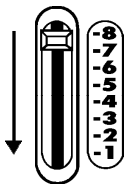
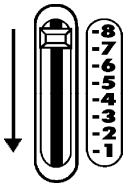
Set the slide control on the bottom of the switch-hook module to 8. Make sure the **sensitivity** switch #4 (found on the side of the switch-hook module) is down (off). If the MUTE lights on the audio module are green, no adjustment is needed. Go to step 4.

Move the slide control slowly down to 1. Stop immediately when the MUTE lights turn from red to green.

If the MUTE lights never turn green, reposition the slide control at 8. Move the **sensitivity** switch #4 (the switch farthest to the right) up (on).

Slowly move the slide control down again. Stop immediately when the MUTE lights change from red to green.

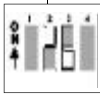
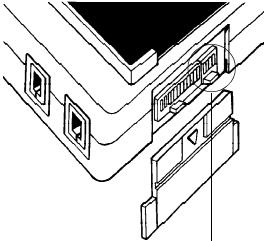
If the MUTE lights NEVER turn green, call for assistance at the number below.





Step 4

Press any MUTE button to turn the assisted setup off. You will hear the prompt “system ready.” You can now hang up your phone.



Helpful Hint:

When placing a call, and the distant location hears static, a hum, or scratchy noises, position **sensitivity** switch 2 up (ON) and 3 down (OFF).

Repeat steps 1 through 4.

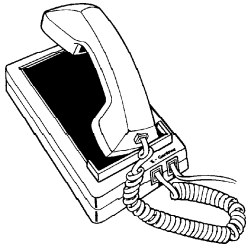
THIS IS A ONE-TIME SETUP.

Do not settle for bad audio. Please call the number below if you are unable to get clean, good-sounding audio.

Operation

Operating the ET100 is practically identical to operating your telephone because it uses your existing telephone functions.

NOTE: The ET100 works best in an environment where there is little or no background noise.



Making calls and beginning a conference

Pick up your handset from the telephone cradle and dial out as normal. Place the handset on the switch-hook module pad to begin the conference. Or, place the handset on the switch-hook module pad first and dial out as normal. The conference will automatically begin.

Answering calls and beginning a conference

Pick up your handset from the telephone cradle and answer the call as normal. After the telephone call has been established, place the telephone handset on the switch-hook module pad. Or, place the handset directly on the switch-hook module pad after answering the call. The conference will automatically begin.

Hanging up a call

Place the handset on the telephone handset cradle.

Adjusting the speaker volume

Press the VOL + or VOL - button on the audio module. Press the VOL + and VOL - buttons simultaneously to return the speaker volume to normal (default) level.



Muting and unmuting the microphones

Press any audio module MUTE button once to mute all three microphones. All MUTE lights will flash red when microphones are muted. Press any MUTE button once again to unmute all three microphones. All MUTE lights will glow green when microphones are unmuted.

Using existing telephone features

Leave the handset placed on the switch-hook module pad, or pick up the handset from the switch-hook module pad while using your telephone as normal to put a call on hold, transfer a call, access additional lines, conference additional lines, hold a private conversation, etc.

Note: The ET100 will provide full-duplex audio as long as the phones on both ends of the conference call provide full duplex features. (Speakerphones are NOT full duplex.)

Troubleshooting

<i>Symptom</i>	<i>Probable Cause</i>	<i>Probable Remedy</i>
<p>■ The power indicator does not light.</p>	<p>The unit is not receiving power.</p>	<p>Ensure all cables are properly connected. Ensure the power outlet is active.</p>
<p>■ The mute indicators light green when the handset is placed on the switch-hook module, but there is no audio present.</p>	<p>The telephone handset cables are not properly connected.</p>	<p>Ensure all telephone handset cables are properly connected. See the “Installation” section in this manual.</p>
	<p>The telephone is not connected to a call.</p>	<p>Ensure the “LINE” or “ACCESS” button on the telephone has been pushed.</p>
<p>■ You can hear the people at the distant location, but they cannot hear you.</p>	<p>The mute function is turned on. The mute indicators will flash red when the microphones are muted.</p>	<p>Press the mute button once. The mute indicators will glow green when the microphones are active.</p>
	<p>The “Dip Switch Setup” configuration is improperly set.</p>	<p>See the “Dip Switch Setup” section in this manual.</p>
<p>■ The audio level received at the distant location is too low or too high.</p>	<p>The send audio volume is set too low or too high.</p>	<p>See the “Dip Switch Setup” section in this manual.</p>
<p>■ The speaker volume is too low or too high at the maximum setting.</p>	<p>If the telephone has a handset volume control, it has been set too low or too high.</p>	<p>Adjust the telephone handset volume to nominal listening level, and repeat the assisted setup.</p>

<i>Symptom</i>	<i>Probable Cause</i>	<i>Probable Remedy</i>
■ The system sounds “scratchy” or is producing excessive noise.	There is a bad telephone line connection.	Redial the number or have the distant location call again to get a better connection.
	The distant location has noisy equipment or is in a noisy environment.	Have the people at the distant location eliminate the noise source or move to another room if possible.
	The “Dip Switch Setup” configuration is improperly set.	See the “Dip Switch Setup” section in this manual.
■ The system squeals or produces feedback.	If the telephone has a handset volume control, it has been set too high.	Adjust the telephone handset volume to the nominal listening level and repeat the “Assisted Setup” section of this manual.

If you cannot resolve your difficulty by following the suggested remedies in this troubleshooting section, please call Gentner for assistance at **800-945-7730** or **801-975-7200**.

Specifications  **System Weight**

7 lbs. (3.18 kg) dry
9 lbs. (4.08 kg) shipping

System Power Requirements

120 VAC, 60 Hz, 23 W (or optional power supply)

Echo Cancellation

Digital echo cancellation used to eliminate acoustic (room) and telephone line echo

Audio Performance

Frequency Response

300 Hz - 3300 Hz, ± 1.5 dB

Signal to Noise Ratio

50 dB

Total Harmonic Distortion

0.3%

Record Output

-10 dBu, 600 ohms, unbalanced

Controls

Volume up/down

Microphone mute

Utilizes all telephone system functions

Operating Temperature

32° to 100° F

Storage Temperature

0° to 150° F

Switch-hook Module

Dimensions

9.80"L x 4.70"W x 1.25"H
(24.89L x 11.94W x 3.18H cm)

Weight

14 oz. (.41 kg) dry

Connectors

PHONE:	4 conductor, handset style
HANDSET:	4 conductor, handset style
AUDIO MOD. ONLY:	8 conductor, RJ-45
REC:	Phono
19 VDC IN:	3 Pin, Molex® style

Audio Module***Dimensions***

11.0"L x 11.75"W x 3.20"H
(27.94L x 29.85W x 8.13H cm)

Weight

2 lbs. 14 oz. (1.30 kg) dry

Connector

SWITCH-HOOK MOD: 8 conductor, RJ-45

Microphones

3 unidirectional elements configured in 360° polar pattern, non-gating

Speaker

4" round, adjustable to 85 dB SPL peak volume

In-line Power Module***Dimensions***

3.50"L x 2.50"W x 2.75"H
(8.90L x 6.35W x 7.0H cm)

Cable Length

12 foot fixed cable

Weight

2 lbs. 1 oz. (.94 kg) dry

Electrical

19 VDC unregulated, 23 W

Supplied Cables***Handset Cables***

12 inch flat and 32 inch flat (optional use)

Connection Cable

25 foot



GENTNER COMMUNICATIONS CORPORATION (Manufacturer) warrants that this product is free of defects in both materials and workmanship. Should any part of this equipment be defective, 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 the original purchase, provided the owner returns the equipment 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 equipment 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 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 equipment 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 equipment has been altered or repaired by other than Manufacturer or an authorized service representative of Manufacturer; or,

C. Adaptations or accessories other than those manufactured or provided by Manufacturer have been made or attached to the equipment which, in the determination of Manufacturer, shall have affected the performance, safety or reliability of the equipment; or,

D. The equipment's original serial number has been modified or removed.

NO OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR USE, APPLIES TO THE EQUIPMENT, nor is any person or company authorized to assume any warranty for Manufacturer or any other liability in connection with the sale of Manufacturer's products.

Manufacturer does not assume any responsibility for consequential damages, expenses or loss of revenue or property, inconvenience or interruption in operation experienced by the customer due to a malfunction in the purchased equipment. No warranty service performed on any product shall extend the applicable warranty period.

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

This warranty extends only to the original purchaser and is not assignable or transferable.

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

FCC Part 15



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.

used in accordance with the user's manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in

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

Compliance



This equipment complies with Part 68 of the FCC rules. On the bottom of the switch-hook

requested, this information must be provided to the telephone company.

If this equipment causes harm to the telephone network, the telephone company will notify you

practical, the telephone company will notify the customer as soon as possible. Also, you will be advised of your right to file a complaint with the FCC if you believe it is necessary.

dures that could affect the operation of this equipment. If this happens, the telephone company will provide advance notice in order for you to make the necessary modifications in order to

If trouble is experienced with this equipment, please contact Gentner at 800-945-7730 or 801-975-7200 for repair and (or) warranty information. If the trouble is causing harm to the tele-

network until the problem is resolved.

This equipment cannot be used on telephone company provided coin service. Connection to

When the ET100 is used with a leased telephone system, permission to connect to the telephone system should be obtained from the owner of the system. Customer instructions for KX-type

that they can only be connected to host equipment and never to the network. This device must be connected through the telephone handset.

FCC Registration Number: FBIUSA-21446-KX-N

IC Compliance

NOTICE: The Industry of Canada label identifies certified equipment. This certification means that this equipment meets certain telecommunications network protective operational and safety requirements. The Industry of Canada does not guarantee this equipment will operate to the user's satisfaction.

Before installing this equipment, users should ensure that it is permissible to be connected to the facilities of the local telecommunications company. The equipment must also be installed using an acceptable method of connection. In some cases, the company's inside wiring associated with a single line individual service may be extended by means of a certified connector assembly (telephone extension cord). The customer should be aware that compliance with the above conditions may not prevent degradation of service in some situations.

Repairs to certified equipment should be made by an authorized Canadian maintenance facility designated by Gentner. Any repairs or alterations made by the user to this equipment, or equipment malfunctions, may give the telecommunications company cause to request the user to disconnect the equipment.

Users should ensure for their own protection that the electrical ground connections of the power utility, telephone lines and internal metallic water pipe system, if present, are connected together. This precaution may be particularly important in rural areas.

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

IC Certification Number: 1970 6282 A

Safety *Information*

CAUTION: For use only with certified telecommunication equipment.

ATTENTION: Pour utilisation seulement avec du matériel de telecommunications certifiée de marque.



“Our vision is to provide our customers with the total audio solution for conferencing.”



GENTNER COMMUNICATIONS CORPORATION
Sales and Technical Assistance
1825 Research Way
Salt Lake City, Utah 84119

Toll Free 800-945-7730
Telephone 801-975-7200
FAX 801-977-0087

FAX-On-Demand 800-695-8110

Worldwide Web Page @ <http://www.gentner.com>