MIRCOM

EP-1000

RADIO INTERCOM

OPERATING
INSTRUCTIONS

CONTENTS

OPERATING INSTRUCTIONS FOR THE EP-1000 INTERCOM

MIRCOM'S EP-1000 system is a unique "All-Master" intercom system which has been designed to fulfill all the inter-communication needs of a modern household.

Unique Features

*All-Master control
From each station, you can selectively call any other station in the system. Every intercom feature on the master station (EP-1000) is available on each other station.

*Remote Monitoring
A station in the nursery can be placed in the monitor mode from another station without having to go to that particular station. You will be able to listen-in on the baby without accidentally wakening the baby by opening the door. Or you can monitor the kids as they play unattended in the recreation room.

*Door Release
Any room station can remotely open the front door or gate by pressing the door release button.
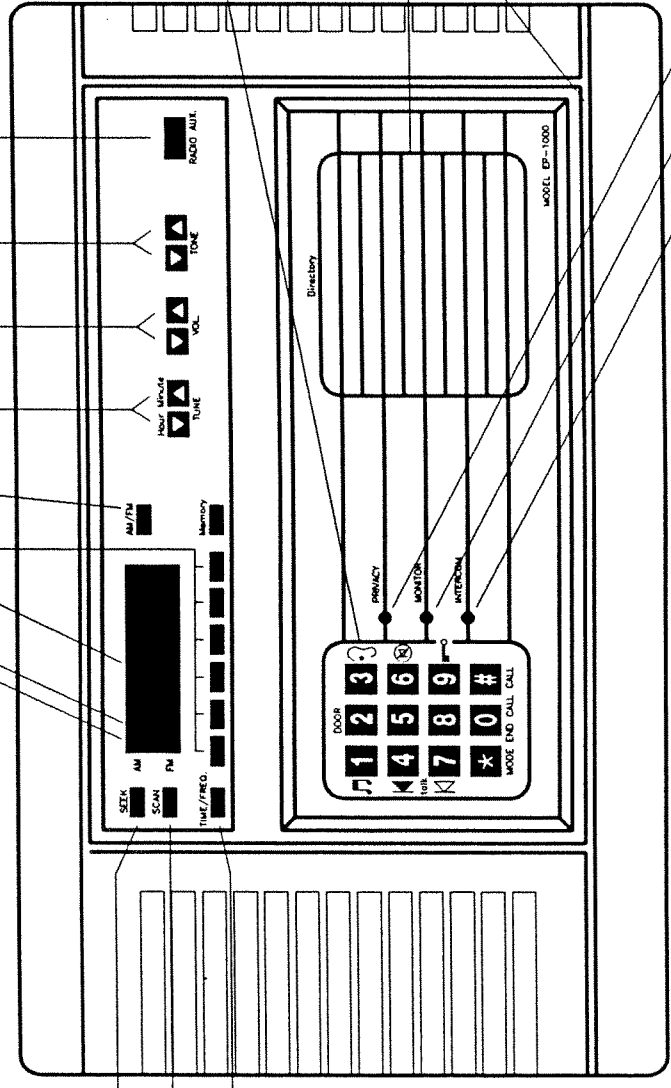
*Selectivity on ALL room stations
Each station is capable of selecting either privacy, monitor, radio or intercom mode.
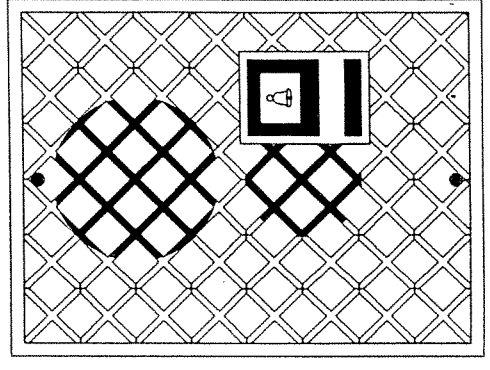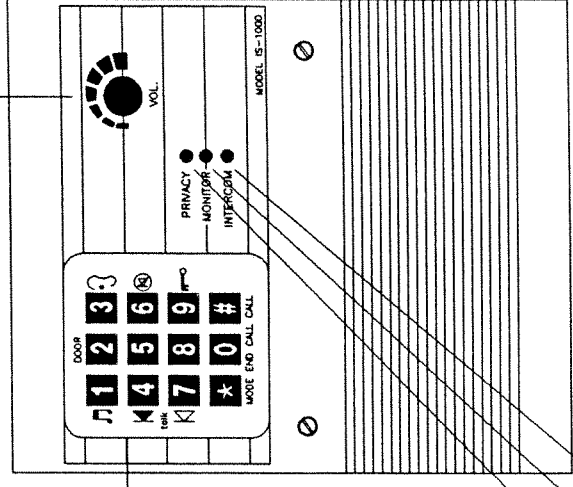
EP-1000 System Features

EP-1000
Main Control Unit

IS-1000
Room Station

OS-1000
Door Station

MASTER STATION EP-1000

RADIO CONTROLS

1 | **SEEK BUTTON** — This button "seeks" the next available radio station frequency.

2 | **SCAN BUTTON** — This button "scans" sequentially all the radio stations, one at a time (every 5 seconds). Depressing the "scan" button a second time will leave the radio at the last station displayed.

3 | **AM/FM BUTTON** — Selector button for **AM or FM** radio stations.

4 | **TIME/FREQ. BUTTON** — Pressing this button switches the display between radio station and clock time.

5 | **PRE-SELECTED STATIONS** — To pre-select up to 12 stations (6 for AM and 6 for FM).

6 | **TUNE BUTTONS**
▲ Use this to select a radio frequency higher in the band.
▼ Use this to select a radio frequency lower on the band.

7 | **CLOCK ADJUSTMENT** — Holding the **MEMORY** button down while pressing the **HOUR** button will advance the hour portion of the clock. Similarly holding the **MINUTE** button while holding the **MEMORY** button will advance the minute portion of the clock.

8 | **RADIO/AUX BUTTON** — When an auxiliary music source is connected to the EP-1000 Master station, *(e.g. C.D. or Tape deck)* pressing this button will replace the radio. If the *AM* or *FM* light is not illuminated the auxiliary input is being used.

INTERCOM CONTROLS

9 | **VOLUME CONTROL** — The volume control will enable you to adjust the level to your listening pleasure.

10 | **TONE BUTTONS** — The **TONE** buttons will adjust the bass and treble levels of the EP-1000 master station only.

11 | **INTERCOM KEYPAD** — The keypad enables the user to make, cancel, answer or prevent any type of intercom call. The keypad can perform the following operation for the station;

a) Privacy ⊕ prevents any incoming calls.	g) Call ⊞ used whenever you wish to call another station.
b) Monitor ♂ allows listening into any other room station.	
c) All-call ◁ you can make a paging announcement.	h) Control ☎ after responding to a visitor's
d) Music ♫ allows music to be heard at this station.	Access call you can remotely open the
e) Talk ◄ used to talk to another station.	door if an electric door control
f) Door used to respond to a door call.	option is connected.

12 | **MICROPHONE** — Highly sensitive microphone enables hands free operation.

INDICATORS

13	AM / FM indicators	
14	PRIVACY	No calls will be received at this station when this light is on.
15	MONITOR	The green light will illuminate when this station is being or is monitoring another station.
16	INTERCOM	If more than two independent converstations are taking place in the system, the yellow light will illuminate. The yellow light will caution you the system is currently used at its full capacity.
17	CLOCK/RADIO DISPLAY	This display will either display the time in **AM** or **PM** or the current radio station being received.
18	DIRECTORY	Directory labels can be applied in this area. The labels will inform you which station you are callling.

RADIO AND CLOCK

The EP-1000 Master Station has a built-in AM/FM radio tuner with 12 pre-selected settings. (6 AM and 6 FM)

RADIO   To listen to the radio press ✳ , ♫ 1 on the station's keypad. Repeat to turn the radio off. Check to make sure either the AM or FM light is lit. If the AM or FM light is not lit, press the Radio/Aux. button.

TUNING   Using the TUNE buttons, select the desired radio station. Press the **AM/FM** button to select between AM or FM stations.

TONE   Use the TONE buttons to increase or decrease the tone level.

PRE-SELECT SETTINGS
To set a desired station, press the MEMORY button, then one of the buttons labelled 1 to 6.
Repeat this procedure for each of the five other pre-selected station push buttons.

CLOCK (REFER TO ILLUSTRATION BELOW)
To set the time on the clock, press the TIME/FREQ. button to show the clock. Holding the **MEMORY** button down while pressing the **HOUR** button will advance the hour portion of the clock. Similarly, holding the **MINUTE** button down while holding the **MEMORY** button will advance the minute portion of the clock.

Figure-1. Clock Adjustment
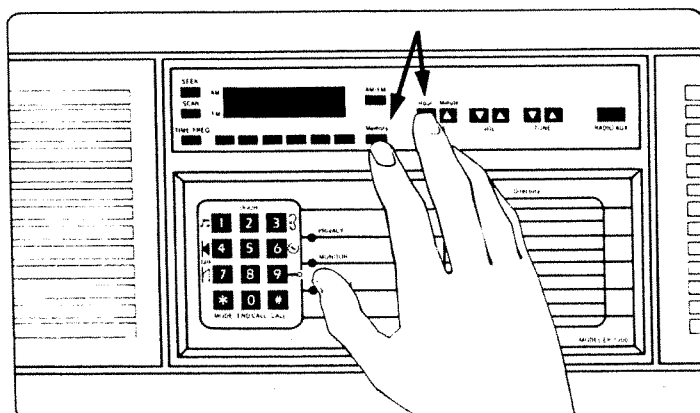
AUXILIARY MUSIC SOURCE

Alternate music source can be connected to the EP-1000 system. Example: Tape decks, Compact disc etc.

RADIO/AUX BUTTON   Press this button to transfer the music source from the built-in radio to the alternate
music source.
Connect the alternate music source to AUX terminals labeled R, L and GND.
(input signal > 120 mV).
The FM or AM light will not light up if this feature is being used.

INTERCOM FUNCTIONS

ONLY MIRCOM'S EP-1000 SYSTEM CAN PERFORM EACH OF THE FOLLOWING FUNCTIONS AT EVERY INDOOR STATION

TO MAKE A CALL TO A PARTICULAR STATION

Press ⊞ , then the two digit station number. The called station will receive a ringing tone. The person being called will be able to answer hands-free. The person calling will press the ◁ ⟦4⟧ button when they talk and release the button to listen. The station will automatically hang up if the person does not talk after a 15 second period. To hang up prior to the factory-set period of 15 seconds, press the ⟦✳⟧ , ⟦O⟧ buttons.

EXAMPLE:
If the living room had a room station assigned to number 08, you would do the following.
To **CALL**, Press ⊞ then ⟦0⟧⟦8⟧
To **TALK**, Press ◀ ⟦4⟧ , release to listen

If you receive a busy tone while calling and the red **PRIVACY** light flashes, the person you are calling has their station on **PRIVACY** mode and doesn't wish to be disturbed.
The yellow **INTERCOM** light will flash three times if the station you are calling is busy or when the system is being used at its full capacity. The system can have two independent conversations taking place simultaneously.
A person can talk to someone in the basement while another person can talk to someone in one of the bedrooms.

RESPONDING TO A CALL
A ringing tone is heard at a station whenever someone is calling. Immediately after the ringing tone the person can respond hands-free without having to drop whatever they are doing.

PAGING AN ANNOUNCEMENT
To make an **ALL-CALL** announcement press ⟦✳⟧ , then the ◁ ⟦7⟧ button. While holding down the ◁ ⟦7⟧ button, page your announcemt to all room stations. The door stations will not transmit your announcement. Wait momentarily after pressing and holding the ◁ ⟦7⟧ button for the ringing tone to be sent to all the room stations.

ANY TYPE OF CALL WILL AUTOMATICALLY MUTE THE RADIO OR AUXILIARY MUSIC SOURCE.

RESPONDING TO A DOOR CALL

All door calls are heard at all indoor stations except stations in the **Privacy or Monitor** mode. Each door station has a distinguishable door chime. To Answer Press ⊛ then 2 You will immediately hear the person at the door station. To respond, press ◄ 4 , and release to listen. A pre-set intercom period will automatically reset the system after 15 seconds of conversation. To manually cut-off communication, press ⊛ then 0 .
A door station can be also called the same way as an inside station.

Front Door	=	Two note chime, repeats three times	= station 14
Back Door	=	Two note chime, repeats two times	= station 15
Side Door	=	Two note chime	= station 16

It is therefore possible by listening to the chime to distinguish which door the visitor is calling from.

MONITORING

The system can monitor up to three room stations simultaneously or conversely, three room stations can monitor one room. EXAMPLE:

Press ⊛ , 3 3, # then the station number __ __

Repeat the procedure to monitor two other stations.
To monitor a station from separate rooms, perform the above sequence at each station.
To cancel the monitoring press ⊛ , 0
Room stations monitoring or being monitored will have their green MONITOR light illuminated.

PRIVACY

To prevent any incoming calls or door chimes, you can place your station into the **Privacy** mode.
EXAMPLE:

Press ⊛ , 6 ⊛

To cancel the privacy mode, press ⊛ , 6 ⊛
When a station is in the **Privacy** mode the red light will illuminate. Another room station calling a station in the Privacy mode will receive a busy tone and a flashing Privacy light. Radio / Aux. can be listened to if the station is in the privacy mode.

CONTROL ACCESS

Each room station is capable of opening a controlled access point *(e.g. electric gate, front door with an electric door strike etc.)*. After receiving a call from a door station the following procedure will trigger the controlled access point.
EXAMPLE:

Press ⊛ , 9 ▬○ after receiving a door call
If the optional door release feature is connected, the door strike will trigger for 5 seconds.

NOTE: This function will only work after the door chime is triggered by an outside door station.

SPECIAL FEATURES

MASTER ROOM STATION

A room station connected to terminals marked 2D and 2V on the EP-1000 will be the Master room station. A Master room station gives parents the ability to monitor or call a child's room, no matter what status the child's room station is in. *Remember, a regular room station will not be able to call another room station in the privacy or monitor mode.* A **Master** room station cannot be monitored. Only one **Master** room station is available per system. A room station is pre-programed during installation, to be a **Master** room station.

The Master room station has the provision to over-ride any remote room station. To activate this feature the following sequence must be performed:
EXAMPLE:

Remote station 04 is in the privacy Mode.
- Press ⌗ , 3 , ✳ , 0 , 4 sequentially.
- Unit will flash the red Privacy light momentarily to inform you the station being monitored is in the **Privacy** mode. Wait a couple of seconds and the unit will monitor the station being called.

INTERCOM DURATION SETTING

Each intercom conversation is limited to 15 seconds after a person making the call has finished talking. The person replying has only 15 seconds to respond. Pressing the **TALK** button re-starts the intercom period. By cutting a yellow jumper on the back of the EP-1000 unit, you can increase the intercom period to 30 seconds.

TROUBLESHOOTING

PROBLEM	PROBABLE CAUSE	SOLUTION
Nothing Works	No AC Power	Check 16 VAC input
	Fuse burnt out	Check 3 Amp fuse behind the EP-1000 station
Radio works on the EP-1000 station but not the room station	Wiring harness not connected or loose	Check wiring harness between EP-1000 station and the terminal board
Poor AM radio	AM antenna	Re-position the AM antaenna
Poor FM reception	FM antenna	Re-position the FM antenna

EP-1000 SYSTEM DIRECTORY

STATION NUMBER	STATION LOCATION
0 1	EP-1000 MASTER UNIT
0 2	MASTER ROOM STATION
0 3	
0 4	
0 5	
0 6	
0 7	
0 8	
0 9	
1 0	
1 1	
1 2	
1 3	
1 4	(3 NOTE CHIME)
1 5	(2 NOTE CHIME)
1 6	(1 NOTE CHIME)

WARRANTY

MIRCOM Technologies Ltd., manufactured equipment is guaranteed to be free of defects in material and workmanship for a period of one (1) year from the date of original shipment. MIRCOM will repair or replace, at its option, any equipment which it determines to contain defective material or workmanship. Said equipment must be shipped to MIRCOM prepaid. Return freight will be prepaid by MIRCOM. We shall not be responsible to repair or replace equipment which has been repaired by others, abused, improperly installed, altered or otherwise misused or damaged in any way. Unless previously contracted by MIRCOM, MIRCOM will assume no responsibility for determining the defective or operative status at the point of installation, and will accept no liability beyond the repair or replacement of the product at our factory authorized service depot.

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