

## Specifications

Dimensions	3" w x 1.5" d x 4" h	Output	50mV/m (FCC Part 15)
Weight	7.8 oz	Deviation	+/-7KHz
Modulation	Frequency modulation	Modular distortion	<5%
Tuning	PLL Frequency synthesizer	Spurious radiation	>50 dBC
Power	4.8V NiCad Battery, 700 mAH	Sensitivity	<-116dBm @ 12dB SINAD
Battery life	Standby(50mA)=12 hours Communication(140mA)=5 hrs	IF bandwidth	15KHz
Charging time	70mA/hour trickle, 12 hrs for full	Image rejection	>60 dB
Frequency range	902.6-904.55:925.6-927.55 MHz (40 channel combination)	Operating temp	-10 to +40°C
Antenna	.4" w x 2" h $\mu$	Switches	Off/Vol, Channel Select, Full/Standby

## Warranty

Eartec communication systems are warranted from malfunction due to manufacturing defects by the original purchaser for the following periods after date of purchase:

### Transceivers

Digicom	1 year
MC-1000	1 year
TD900	6 months
Simultalk 24G	6 months

### Headsets

Heavy Duty	1 year
Midweight	6 months
Lightweight	30 days
<b>Rechargeable batteries</b>	60 days

## What is Covered

If you require warranty service for your product within the warranty period ship your product pre-paid only to Eartec. The end user is responsible for the initial shipping charges to our facility. Eartec will pay the return ground shipping charges if the product is covered under the warranty.

This warranty covers defects in materials and workmanship in all Eartec products excluding:

- (a) Damage from misuse, abuse, or general wear and tear.
- (b) Repairs or product modifications by anyone not authorized by Eartec Co.

## General Service

All repair work due to general wear and tear will be performed for the cost of replacement parts, radio re-tuning and return shipping from the Eartec factory.

### Service

#### Eartec Co.

145 Dean Knauss Drive  
Narragansett, RI 02882

COD or Collect deliveries will not be accepted.

A letter explaining any problems and work to be performed must accompany each repair shipment with:

**Name, Business, Complete Address, Telephone Number, Email Address**

## Returns

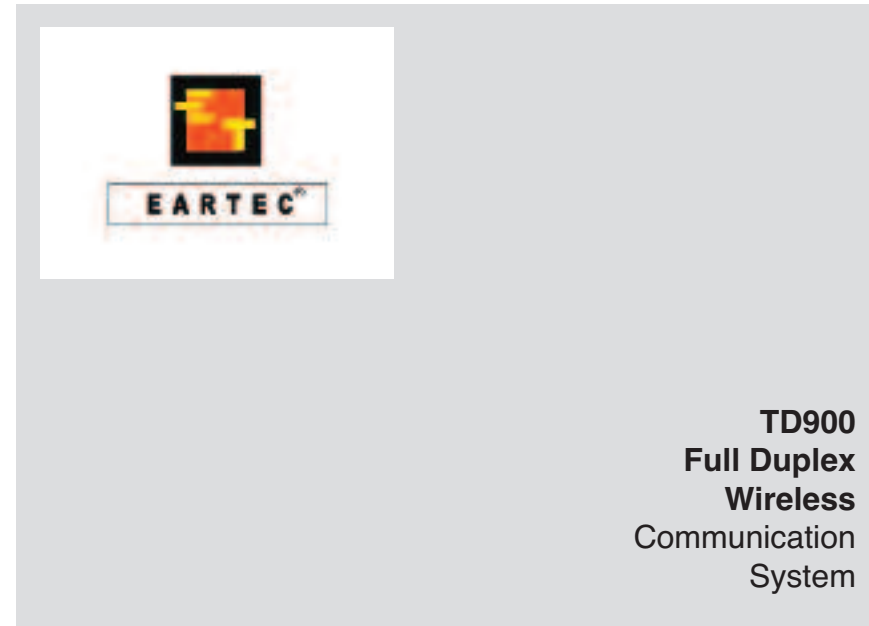
Eartec products may be returned for credit or refund only if received in the original packing and in "As New" condition within 30 days of date of purchase.

### EARTEC Co.

145 Dean Knauss Drive  
Narragansett, RI 02882  
Tel: 1-800-399-5994  
In RI: 401-782-4966  
Fax: 401-789-7300



Eartec Co. TD900 Full Duplex Wireless



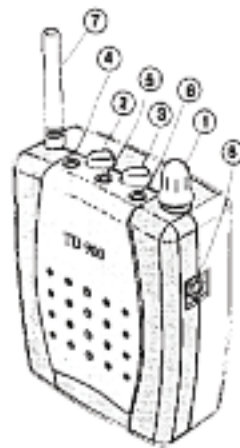
## TD900 Wireless Features

**Full duplex, two-way transceiver**

**Simultaneous talk - hands free communications**

**State of the art digital technology**

1	<b>On/Off, Volume knob</b>
2	<b>Talk button</b> up=standby, down=talk mode
3	<b>Channel selectivity button</b> up=channel A, down=channel B
4,5	<b>Channel and status indicators A and B</b> startup mode=green standby mode=red communication mode=orange
6	<b>Battery low / charge indicator</b>
7	<b>Antenna</b>
8	<b>Headset socket</b>
9	<b>Belt clip</b>
10	<b>Charger socket</b>
11	<b>Channel dip switch</b> inside battery compartment



## TD900 Wireless Instructions

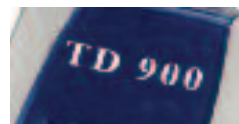
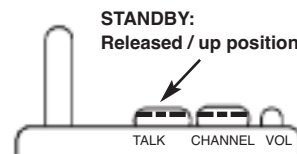
### Charging the Radios

The batteries that provide power to your system must be "drained". Simply follow the procedure below within 48 hours before each use:

1. Turn ON all radios until LED lights turn OFF to drain battery power.
2. Turn power OFF to all radios.
3. Plug AC Charger/Adapter into a wall outlet and attach to radio charge socket.
4. Charge each radio for 10 - 12 hours.
5. The transceiver battery charges fully in 10 - 12 hours. To prevent overheating of the charger and to prevent damage to the charge circuit do not leave the charger plugged in for more than 24 hours. A fully charged battery will operate in full duplex up to 5 hours.

### Start-up Your Radios

1. Batteries must be fully charged before first use.
2. Begin with radios in OFF position.
3. Turn radios ON by rotating VOLUME dial clockwise.
4. Using CHANNEL button, select the operating frequencies indicated by green light (A or B).
5. Set TALK button on each radio to STANDBY.



## TD900 Wireless Instructions (cont.)

### Using Your Radios & Headsets

1. Charge radios as indicated above.
2. Plug headset jack into headset socket marked MIC/EARPHONE.
3. Position headset microphone directly 1-2" in front of mouth.
4. See below for use with your specific system setup.



**NOTE:** To communicate properly, all radios in the group must be set to the same frequency. The dip switch channel programming feature is located inside the battery compartment. See page 5 for channel combinations.

### For Systems with 2 Radios

1. Charge radios as indicated.
2. Identify MASTER radio, and turn it on.
3. Set MASTER radio to transmit: press the talk button once, and confirm orange LED light.
4. Turn on REMOTE radio. LED light should be red, indicating standby mode.
5. Switch REMOTE to transmit by pressing the talk button. Light will turn orange.

### For Systems with 3 or More Radios

The TD904 Pro Series is a multi station team communication system. Each Pro Series intercom provides the master hands free voice contact with an unlimited number of remote stations. All remotes continuously monitor the master. One at a time, remote users can switch from standby (listen only) to continuous talk operation.

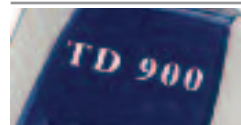
1. Charge radios as indicated above.
2. Identify MASTER radio, and turn it on.
3. Set MASTER radio to transmit: press the talk button once, and confirm orange LED light.
4. Turn on REMOTE radios. LED light should be red, indicating standby mode.
5. Any REMOTE user may switch to transmit by pressing the talk button. Light = orange.
6. REMOTE users should switch from transmit back to standby mode after conversation is complete. This allows another REMOTE user to switch to transmit mode.



## For TDxi Systems - Wired to Wireless Interface

The TDxi system allows addition of full duplex wireless headsets to most popular wired intercoms without complicated and expensive base stations. The complete system consists of a TD900 master transceiver, interface module, and remote TD900 radios with headset. The interface includes a software driven circuit that matches the audio levels if the wireless to that of the wired intercom.

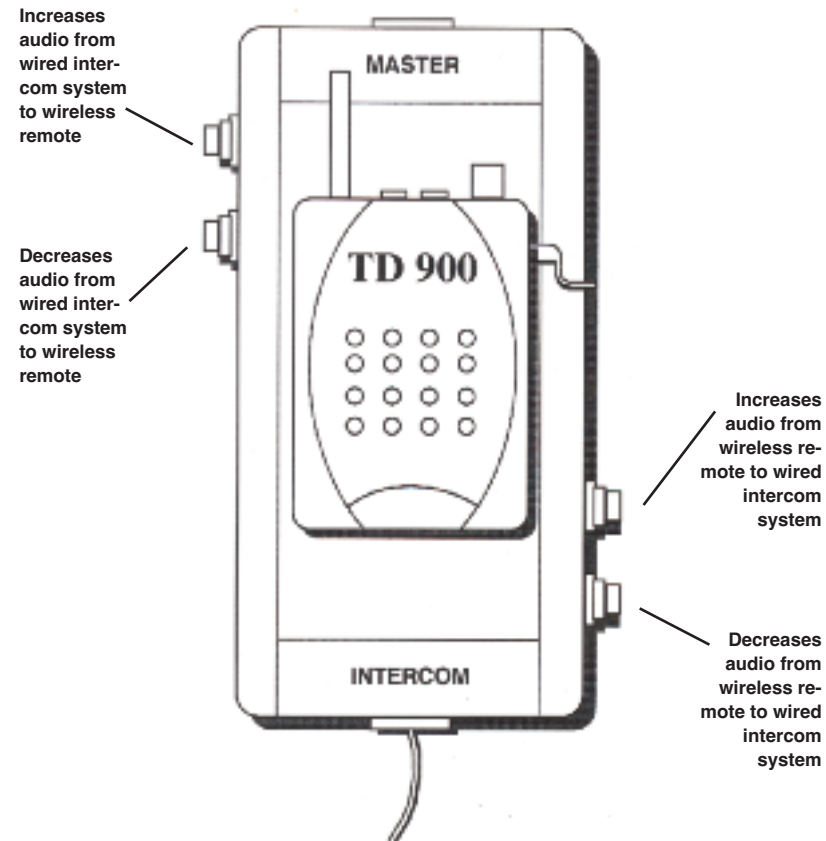
The remote wireless user communicates with the wired party line in a full duplex simultaneous talk format just as though they were connected with an actual cable.



## For TDxi Systems - Wired to Wireless Interface, cont.

1. Charge radios as indicated.
2. Identify MASTER radio / interface, and turn it on.
3. Set Volume on MASTER radio to 25%.
4. Connect TDxi interface to party line in any wired beltpack location.
5. Balance wireless audio levels with the adjustments outlined below.

Note: to increase or decrease audio levels you must push and hold button for one second and then release. Continue following this procedure until desired audio balance is reached. Audio is increased and decreased in digital steps.



# FREQUENCY PROGRAMMING CHART

-White denotes dip switch position UP or DOWN

FREQ. PAIRING		DIP SWITCH SETTING								DIP SWITCH SETTING								FREQ. PAIRING			
ChA	ChB																	ChA	ChB		
FQ 1	FQ 5									FQ21	FQ25										
FQ 2	FQ 6									FQ22	FQ26										
FQ 3	FQ 7									FQ23	FQ27										
FQ 4	FQ 8									FQ24	FQ28										
FQ 5	FQ 9									FQ25	FQ29										
FQ 6	FQ10									FQ26	FQ30										
FQ 7	FQ11									FQ27	FQ31										
FQ 8	FQ12									FQ28	FQ32										
FQ 9	FQ13									FQ29	FQ33										
FQ10	FQ14									FQ30	FQ34										
FQ11	FQ15									FQ31	FQ35										
FQ12	FQ16									FQ32	FQ36										
FQ13	FQ17									FQ33	FQ37										
FQ14	FQ18									FQ34	FQ38										
FQ15	FQ19									FQ35	FQ39										
FQ16	FQ20									FQ36	FQ40										
FQ17	FQ21									FQ37	FQ 1										
FQ18	FQ22									FQ38	FQ 2										
FQ19	FQ23									FQ39	FQ 3										
FQ20	FQ24									FQ40	FQ 4										

# Channel Frequency Table

Eartec service: 1-800-233-1113

CH	Master Unit		Remote Unit	
	Frequency (KHz)		Frequency (KHz)	
	TX	RX	TX	RX
1	925600	902600	902600	925600
2	925650	902650	902650	925650
3	925700	902700	902700	925700
4	925750	902750	902750	925750
5	925800	902800	902800	925800
6	925850	902850	902850	925850
7	925900	902900	902900	925900
8	925950	902950	902950	925950
9	926000	903000	903000	926000
10	926050	903050	903050	926050
11	926100	903100	903100	926100
12	926150	903150	903150	926150
13	926200	903200	903200	926200
14	926250	903250	903250	926250
15	926300	903300	903300	926300
16	926350	903350	903350	926350
17	926400	903400	903400	926400
18	926450	903450	903450	926450
19	926500	903500	903500	926500
20	926550	903550	903550	926550
21	926600	903600	903600	926600
22	926650	903650	903650	926650
23	926700	903700	903700	926700
24	926750	903750	903750	926750
25	926800	903800	903800	926800
26	926850	903850	903850	926850
27	926900	903900	903900	926900
28	926950	903950	903950	926950
29	927000	904000	904000	927000
30	927050	904050	904050	927050
31	927100	904100	904100	927100
32	927150	904150	904150	927150
33	927200	904200	904200	927200
34	927250	904250	904250	927250
35	927300	904300	904300	927300
36	927350	904350	904350	927350
37	927400	904400	904400	927400
38	927450	904450	904450	927450
39	927500	904500	904500	927500
40	927550	904550	904550	927550

\*NOTE: If you require service, contact Eartec at 1-800-399-5994.

