Specifications

GENERAL		TRANSMITTER	
Dimensions	2.5”w x 1”d x 4.25”h	Output	50mV/m (FCC Part 15)
Weight	5 oz	Deviation	30KHz/+-10KHz
Modulation	Frequency modulation	Modular distortion	<5%
Tuning	PLL Frequency synthesizer	Spurious radiation	>50 dBC
Power	4.8V NiMh Battery, 700 mAH	RECEIVER	
Battery life	Standby(70mA)=10 hours	Sensitivity	<-100dBm @ 12dB SINAD
	Communication(150mA)=5 hrs	IF bandwidth	180KHz
Charging time	150mA/hours fast,12 hrs for full	Image rejection	>60 dB
Range	Up to 150 yards	Operating temp	-10 to +40^{O}C
Antenna	Internal	Switches	Off/Vol, 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		**Headsets**	
Digicom	1 year	Heavy Duty	1 year
MC-1000	1 year	Midweight	6 months
TD900	6 months	Lightweight	30 days
Simultalk 24G	6 months	**Rechargeable batteries**	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. Simultalk 24G Full Duplex Wireless

Simultalk 24G Full Duplex Wireless Communication System

Simultalk 24G Wireless Features

Full duplex, two-way transceiver

Simultaneous talk - hands free communications

State of the art 2.4GHz digital technology

Certified for worldwide use

No license required

1	**Antenna**
2	**Power ON Indicator**
3	**Status Indicator**
4	**Talk Button**
5	**Headset Socket**
6	**Belt Clip**
7	**ON/OFF Volume Control Knob**
8	**Charger Socket**
9	**Radio Channel Dip Switch** - inside battery compartment

Simultalk 24G Wireless Instructions

Charging the Radios

The batteries that provide power to your system do not need to be “drained”. Simply follow the procedure below within 48 hours before each use:

1. All radios should be OFF.
2. Plug AC Charger/Adapter into a wall outlet and attach to Radio Charging Jack.
3. Charge each radio for 10-12 hours.
4. 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 12 hours. A fully charged battery will operate in full duplex up to 4.5 hours and up to 8 hours switching to standby mode periodically.

Simultalk 24G Wireless Instructions (cont.)

Identify Your Radios

1. MASTER radio will be programmed to CONTINUOUS TALK.
   - -Press talk button to power ON radio
   - -Left light: red indicates power ON
   - -Right light: green indicates transmit only, receiver muted
   - -Right light: amber indicates transmitting and receiving

2. REMOTE radios will be programmed to CONTINUOUS RECEIVE.
   - -Press TALK button to power ON radio
   - -Left light: red indicates power ON
   - -Right light: red indicates receive only, mic muted
   - -Right light: amber indicates transmitting and receiving

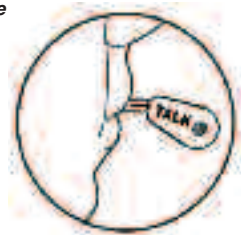
NOTE: *To communicate properly, all radios in the group must be set to the same frequency. The dip switch channel programming feature is located inside the battery compartment. See page 5 for channel combinations.*

Using Your Radios

1. Charge radios as indicated above.

2. Plug headset jack into headset socket. Turn the volume ON. Position headset microphone directly in front of mouth.

IMPORTANT NOTE: Eartec headsets include a special noise cancelling microphone that provides digital voice translation. For optimum performance adjust microphone boom so the element is directly in front of, and approximately 1 inch from the user’s mouth.



Simultalk 24G Wireless System Setup

For Systems with 2 Radios

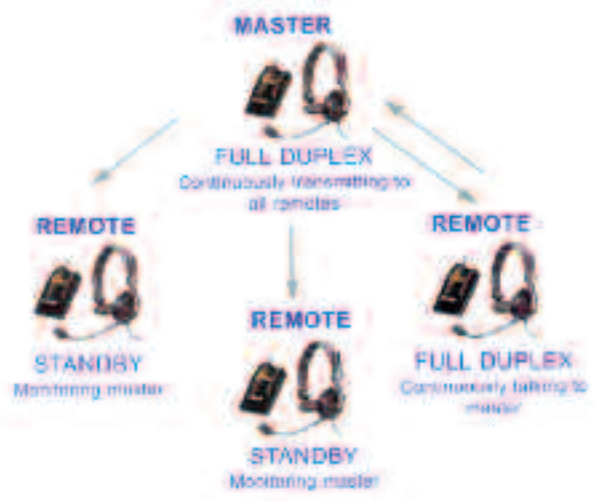
1. Charge radios as indicated.
2. Identify MASTER radio, and turn it on.
3. Set MASTER radio to transmit by pressing the talk button once, and confirm amber LED light.
4. Turn on REMOTE radio. LED light should be red, indicating standby mode.
5. Set REMOTE radio by pressing the talk button once, and confirm amber LED light.
6. You are ready to communicate.

Simultalk 24G Wireless System Setup (cont.)

For Systems with 3 or More Radios

The Simultalk 24G 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 by pressing the talk button once, and confirm amber 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 will turn amber.
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 SLTi Systems - Wired to Wireless Interface

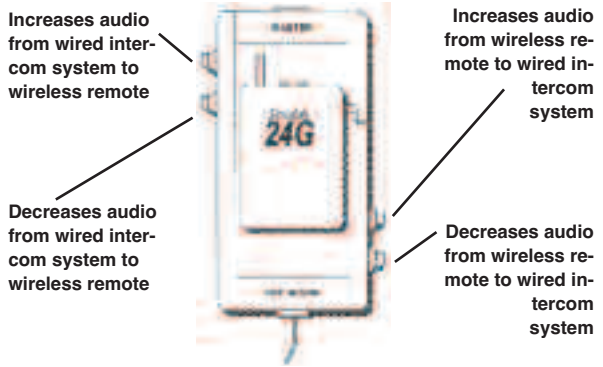
The SLTi system allows addition of full duplex wireless headsets to most popular wired intercoms without complicated and expensive base stations. The complete system consists of a Simultalk 24G master transceiver, interface module, and remote Simultalk 24G radios with headset. The interface includes 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.

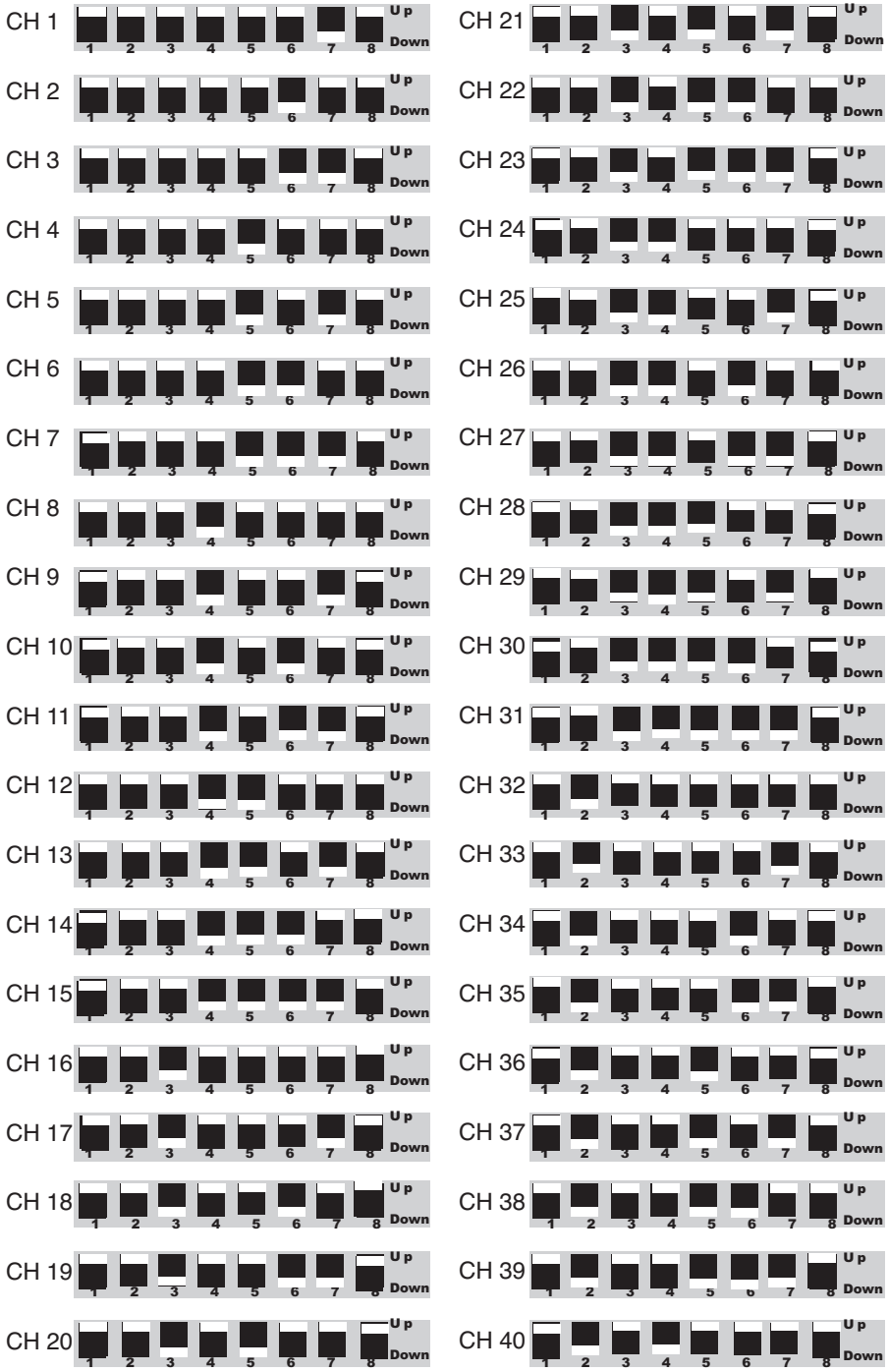
How it Works:

1. Charge radios as indicated.
2. Identify MASTER radio / interface, and turn it on.
3. Set Volume on MASTER radio to 25%.
4. Connect SLTi 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



Channel Frequency Table

Eartec service: 1-800-399-5994

	Master Unit Frequency (MHz)			Remote Unit Frequency (MHz)	
CH	TX	RX		TX	RX
1	2457.5714 MHz	2400.9685 MHz		2400.9685 MHz	2457.5 MHz714
2	2457.6784 MHz	2401.0755 MHz		2401.0755 MHz	2457.6784 MHz
3	2457.7854 MHz	2401.1825 MHz		2401.1825 MHz	2457.7854 MHz
4	2457.8924 MHz	2401.2895 MHz		2401.2895 MHz	2457.8924 MHz
5	2457.9994 MHz	2401.3965 MHz		2401.3965 MHz	2457.9994 MHz
6	2458.1064 MHz	2401.5035 MHz		2401.5035 MHz	2458.1064 MHz
7	2458.2134 MHz	2401.6105 MHz		2401.6105 MHz	2458.2134 MHz
8	2458.3204 MHz	2401.7175 MHz		2401.7175 MHz	2458.3204 MHz
9	2458.4274 MHz	2401.8245 MHz		2401.8245 MHz	2458.4274 MHz
10	2458.5344 MHz	2401.9315 MHz		2401.9315 MHz	2458.5344 MHz
11	2458.6414 MHz	2402.0385 MHz		2402.0385 MHz	2458.6414 MHz
12	2458.7484 MHz	2402.1455 MHz		2402.1455 MHz	2458.7484 MHz
13	2458.8854 MHz	2402.2525 MHz		2402.2525 MHz	2458.8554 MHz
14	2458.9624 MHz	2402.3595 MHz		2402.3595 MHz	2458.9624 MHz
15	2459.0694 MHz	2402.4665 MHz		2402.4665 MHz	2459.0694 MHz
16	2459.1764 MHz	2402.5735 MHz		2402.5735 MHz	2459.1764 MHz
17	2459.2834 MHz	2402.6805 MHz		2402.6805 MHz	2459.2834 MHz
18	2459.3904 MHz	2402.7875 MHz		2402.7875 MHz	2459.3904 MHz
19	2459.4974 MHz	2402.8945 MHz		2402.8945 MHz	2459.4974 MHz
20	2459.6044 MHz	2403.0015 MHz		2403.0015 MHz	2459.6044 MHz
21	2459.7114 MHz	2403.1085 MHz		2403.1085 MHz	2459.7114 MHz
22	2459.8184 MHz	2403.2155 MHz		2403.2155 MHz	2459.8184 MHz
23	2459.9254 MHz	2403.3225 MHz		2403.3225 MHz	2459.9254 MHz
24	2460.0324 MHz	2403.4295 MHz		2403.4295 MHz	2460.0324 MHz
25	2460.1394 MHz	2403.5365 MHz		2403.5365 MHz	2460.1394 MHz
26	2460.2464 MHz	2403.6435 MHz		2403.6435 MHz	2460.2464 MHz
27	2460.3534 MHz	2403.7505 MHz		2403.7505 MHz	2460.3534 MHz
28	2460.4604 MHz	2403.8575 MHz		2403.8575 MHz	2460.4604 MHz
29	2460.5674 MHz	2403.9645 MHz		2403.9645 MHz	2460.5674 MHz
30	2460.6744 MHz	2404.0715 MHz		2404.0715 MHz	2460.6744 MHz
31	2460.7814 MHz	2404.1785 MHz		2404.1785 MHz	2460.7814 MHz
32	2460.8884 MHz	2404.2855 MHz		2404.2855 MHz	2460.8884 MHz
33	2460.9954 MHz	2404.3925 MHz		2404.3925 MHz	2460.9954 MHz
34	2461.1024 MHz	2404.4995 MHz		2404.4995 MHz	2461.1024 MHz
35	2461.2094 MHz	2404.6065 MHz		2404.6065 MHz	2461.2094 MHz
36	2461.3164 MHz	2404.7135 MHz		2404.7135 MHz	2461.3164 MHz
37	2461.4234 MHz	2404.8205 MHz		2404.8205 MHz	2461.4234 MHz
38	2461.5304 MHz	2404.9275 MHz		2404.9275 MHz	2461.5304 MHz
39	2461.6374 MHz	2405.0345 MHz		2405.0345 MHz	2461.6374 MHz
40	2461.7444 MHz	2405.1415 MHz		2405.1415 MHz	2461.7444 MHz

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