Tempest[®]900 Wireless CM-922 2-Channel Wireless BaseStation





CM-922 2-Channel Tempest Wireless BaseStation

Description

The Tempest **CM-922** is a 2-channel 900 MHz Frequency Hopping Spread Spectrum (FHSS) digital wireless intercom system. The CM-922 BaseStation provides connection to two separate hard-wired intercom channels: two 3-pin XLR and one 4-wire port per channel. The 2-wire (TW) interface is compatible with Clear-Com[®], RTS[®], Telex[®] and most other TW intercom systems, 4-wire intercoms and other devices.

The CM-922 front panel offers easy access to the hardwire intercom settings and levels. Each wireless BeltStation can simultaneously monitor and/or talk on both of the hard-wired channels. Each BeltStation user may simultaneously talk/listen on A and B or toggle between A and B in "Single Listen" mode. The CM-922 BaseStation is also compatible with common hardwired system features, such as Call and Remote Mic Kill.

Versatility

The CM-922 BaseStation offers a Stage Announce (SA) output with a relay closure. This is ideal for use with Public Address Systems (PA), city-wide IFB transmitters or virtually any application that can be triggered with a General Purpose Input/ Output (GPIO).

RF Performance

The CM-922 BaseStation comes standard with a single whip antenna (RP-TNC RF connector) and an RJ-45 connector for the (optional) remote transceiver. The remote transceiver allows the antenna functionality to be located up to 1500 ft (450 m) away from the BaseStation over CAT-5/6 cable with no loss of RF signal. The CAT-5/6 cable also supplies power to the remote transceiver. An additional RJ-45 enables remote monitoring and control of the entire wireless system over a Local Area Network (LAN) with the aid of the Tempest T-Desk software.

Expandability

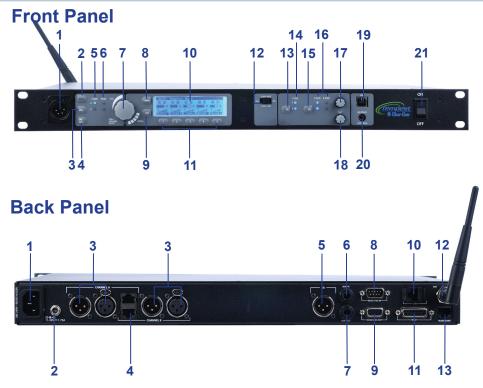
Utilizing the Tempest system's TDMA technology and proprietary Accu-Sync[™] BaseStation coordination, up to 5 CM-922 BaseStations and 25 full-duplex wireless BeltStations (in Normal Mode) can be operated in close proximity to each other within the 900 MHz band while maintaining excellent system performance. By switching to Shared Mode, an unlimited number of BeltStations can be connected to one BaseStation.

Features:

- 2-channel digital wireless BaseStation
- 900 MHz, license free operation
- Frequency Hopping Spread Spectrum technology
- Large LCD front panel screen showing current status of each BeltStation
- Simple configuration of 2- and 4-wire audio settings, including Input/Output levels
- Compatible with Clear-Com®, RTS®, AudioCom®
- T-Desk software enables remote monitoring via LAN interface
- Optional Remote Transceiver extends antenna coverage up to 1500 ft (450 m) from BaseStation
- Flexible Power Options: Universal voltage power supply (85-264 VAC) or 11-32 DC voltage
- Lost Packet Concealment prevents "clicks" and "pops" when a data packet is lost
- Only available in US and Canada

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Technical Specifications:

System Specifications		Number of Synchronized BaseStations:	5	12) Antenna Connector 13) Remote Transceiver RJ-4	5 Conne
RF Frequency: RF Scheme:	902 to 928 MHz	BaseStation/BeltStation		Front panel LCD Display:	240 x 6
Effective Radiated Power:	FHSS with TDMA 250mW using 2dBi	Pairing: Programming Port:	Mini-jack/cable USB		resolution
	antenna	Stage Announce and		Power Input - AC:	85-264
Receiver Sensitivity:	-100 dBm for 10 ⁻⁵ BER	GPO Closures:	6 relays via DB15		50-60 H
Radio Certification:	FCC Part 15,	2-wire Intercom Interface:	2 channels via XLR-3F with	Power Input - DC:	15 Watt 11-32 V
	Canadian RSS-210,		XLR-3M loop	l ower input Do.	12 Watt
	license free	2-wire Compatibility:	Clear-Com, RTS	Environmental	
Transmission Range:	Up to 1,000ft		and balanced	$-4^{\circ} - 122^{\circ} F (-20^{\circ} - 50^{\circ} C)$	
	(305m); 500 - 900ft (150 - 275m) typical	4-wire/Matrix Connection:	compatible 2 ports via RJ-45	- 122 1 (20 00 0)	
Audio Dynamic Range:	>94dB	Aux Input:	1/4" 3-conductor	Dimensions	
Audio Frequency Response:	300Hz - 3.8KHz with		jack accepts -4 to	19 in W x 1.76 in H x 12 in D (483 mm x 44 mm x 190 mm)	
	proprietary audio voice shaping		+8dB, balanced,		
System Latency:	Less than 50ms	Aux Output:	transformer isolated 1/4" 3-conductor	Weight	
, ,	direct		jack nominal -4 to	10.5 oz (4.75kg)	
Dess Station Crestifications			+8dB, balanced,	Notice About Specifications While Clear-Com makes every attempt	
BaseStation Specifications Intercom Audio Channels:	2	Stage Announce Output:	transformer isolated XLR-3M, nominal -4	accuracy of the information contained in	its product
Full-duplex BeltStations per	-	olage Announce Oulpul.	to +8dB, balanced,	manuals, that information is subject to c notice. Performance specifications inclu	
BaseStation:	5 (in Normal Mode)		transformer isolated	manual are design-center specifications for customer guidance and to facilitate s	
Half-duplex, Shared BeltStations per BaseStation:	Unlimited	Front Panel Headset:	4-pin male XLR	Actual operating performance may vary.	
Denotations per DaseStation.	Grinnlited	MicrophoneType:	Dynamic or Electret, Auto-Selected	www.clearco	m.co

Number of Antenna Ports per BaseStation:

Antenna Connector Type:

1 **RP-TNC**

!	Front Panel Legend: 1) Local Headset Connector 2) Talk Button 3) Call Button 4) Mic Kill Button 5) Local Headset Channel LEDs A/B 6) Peak LEDs 7) Volume Control 8) Menu Button 9) Enter Button 10) LCD 11) Buttons 1-5 12) 2-Wire Intercom Type Slide Switches 13) Wired Intercom Channel Select Button 14) Channel LEDs 15) 2-Wire/4-Wire Select Button 16) 2-Wire/4-Wire LEDs 17) IN Level Control 18) OUT Level Control 19) USB Connector 20) Beltstation Program Connector 21) Power ON/OFF Switch				
	Back Panel Legend:1) AC Power Input Connector2) DC Power Input Connector3) Intercom Channel A/B Connectors4) RJ-45 4-Wire Intercom A/B Connectors5) Stage Announce Connector6) Aux IN Connector7) Aux OUT Connector8) Base Sync IN Connector9) Base Sync IN Connector10) Local Area Network RJ-45 Connector11) Relay Connector12) Antenna Connector13) Remote Transceiver RJ-45 Connector				
15	Front panel LCD Display: Power Input - AC: Power Input - DC:	240 x 64 resolution 32 level grayscale 85-264 VAC at 50-60 Hertz, 15 Watts 11-32 VDC, 12 Watts			
6	Environmental -4° – 122° F (-20° – 50° C)				
5 r to	Dimensions 19 in W x 1.76 in H x 12 in D (483 mm x 44 mm x 190 mm				
, ated r to	Weight 10.5 oz (4.75kg)				
, ated al -4 ed, ated	Notice About Specifications While Clear-Com makes every attempt to maintain the accuracy of the information contained in its product manuals, that information is subject to change without notice. Performance specifications included in this manual are design-center specifications and are included for customer guidance and to facilitate system installation. Actual operating performance may vary.				
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