

WS800 Digital Wireless Microphone System delivers professional audio quality with wireless freedom and simplified setup. The wireless system is based on 24-bit, 48 kHz, digital audio RF technology and is optimized to work with CONVERGE® Pro and INTERACT® Pro products. The WS800 system includes four models of wireless microphones/transmitters, and a base-station receiver with either 4 or 8 channels, which connects to professional audio mixers.



Applications

- + Conference rooms
- + Boardrooms
- + Overflow areas
- + Training rooms
- + Court rooms
- + Convention Centers
- + Telemedicine Facilities
- + Houses of Worship

Advantages

- + Professional audio quality
 - > Crystal-clear audio with wideband frequency
 - > Optimized to work with CONVERGE® Pro and INTERACT® Pro
- + Wireless freedom
 - > RF technology with support for different frequency bands¹
 - > Hassel-free installation and clean look by eliminating the clutter of wires
 - > No interference with other wireless electronic devices with different range
- + Scalability
 - > Daisy-chainable Receiver to scale up to 32 channels (mics) for large room
- + Flexibility
 - > Multiple types of mics to cater different application and room environment needs
 - + Tabletop, Gooseneck, Handheld, Beltpack (lavalier & headset) mics
- + Security
 - > Highly secured with 256-bit encryption for wireless transmission
 - > This encryption conforms to the US Govt. AES (FIPS PUB 197) specification
- + Ease of maintenance
 - > Microphone batteries: Rechargeable, field-replaceable, off-the-shelf-batteries
 - > Redundant backup system
 - > Microphone charging through USB port also
- + Remote monitoring and control
 - > Robust system with RS232, USB, GPIO, RJ45 ports for configuration, control, monitor & integration
 - > Simple-to-use management software application, running on Windows (XP, Vista, 7)
 - > Proactive email alert before battery needs to be recharged
- + Seamless Support
 - > 1-call support for both pro audio mixers and wireless microphones

¹ M915: 902 MHz to 928 MHz
 M715: 710 MHz to 740 MHz
 M610: 603 MHz to 630 MHz

WS800 FAMILY GROUP - Specifications

WS800 WIRELESS MICROPHONE SYSTEM

Wireless System:	24-bit, 48 KHz, digital audio RF technology
Channels:	4 or 8 channel receivers Daisy chainable up to 32 channels
RF Range:	M915: 902 MHz to 928 MHz M715: 710 MHz to 740 MHz M610: 603 MHz to 630 MHz
Working Range:	300 feet (line-of-sight)
Encryption:	256 bit key (AES)
Frequency Response:	20 Hz - 15 KHz +/- 1 dB
S/N Ratio:	108 dB (typical 'A' weighted)
Total Harmonic Distortion:	<0.03% @ 1kHz
Stability:	<5ppm
Operation Temperature Range:	0 - 50 degrees Celsius ambient temperature



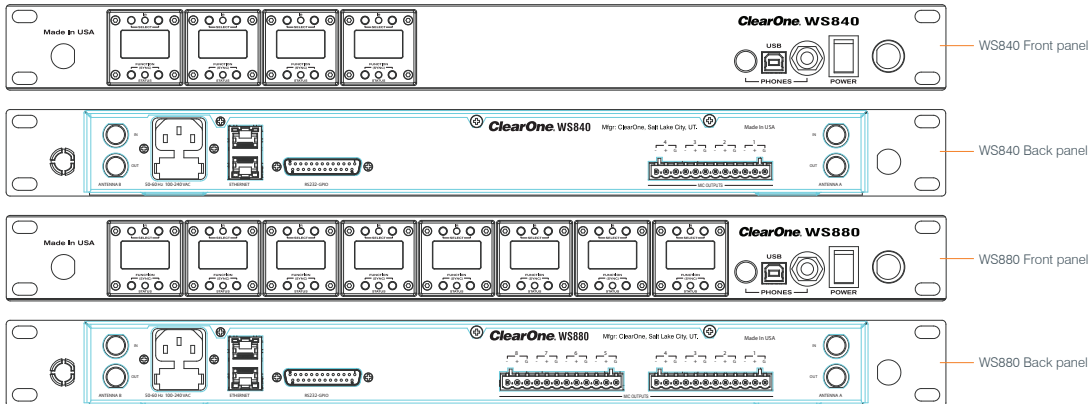
RECEIVERS (BASE STATIONS)

Channels per receiver:	4 channels (WS840), 8 channels (WS880)
Power Requirements:	100-240 VAC 50-60 Hz, 15Watts
Display:	OLED
External Antennas:	Optional
Antenna Distribution:	Attach up to 32 channels to one pair of antennas
Analog Audio Outputs:	Phoenix terminal blocks
Output Impedance:	100 Ohm
Headphone out (mixed):	Balanced, 1/4-in, stereo phone-jack for headphones, recorder or powered speakers
Interface:	USB, RS232 & Ethernet (dual port 10/100 Mbps)
GPIO Interface:	Programmable
Gain Adjustment Range:	-20dB to +31 dB
Dimension:	1-U rack-mount, 19 x 1.75 x 6.5 inches
Weight:	4.7 lbs (2.14 kg) for 8 channel receiver; 4.5 lbs (2.04 kg) for 4 channel receiver



Model	Part Numbers#	RF Range
WS840 (4 channel receiver)	910-6000-401	M915 (902-928 MHz)
	910-6000-402	M715 (710-740 MHz)
	910-6000-403	M610 (603-630 MHz)
WS880 (8 channel receiver)	910-6000-801	M915 (902-928 MHz)
	910-6000-802	M715 (710-740 MHz)
	910-6000-803	M610 (603-630 MHz)

includes Charging station



CHARGING STATION (DOCKING STATION)

Housing:	ABS
Capacity:	Charges 8 microphones simultaneously (mix and match any type of the supported microphones)
Power:	5V DC / 4 A
Dimension:	13.25 x 5.75 inches
Weight:	1.30 lbs (.58 kg)



Part Number | 910-6000-800 (comes free with Receiver)

EXTENSION ANTENNAS

Mount:	Wall mount or mic-stand mount
Connectors:	Straight and right angle TNC connectors
Reception pattern:	130 degree reception pattern
Power:	Phantom-powered from the receiver
Dimensions:	6(h) x 4(w) x 2.5(d) inches
Weight:	.45 lbs (.20 kg)



Category	Part Numbers	RF Range
Extension Antenna Kit (with 25 ft plenum cable)	910-6005-001	M915 (902-928 MHz)
	910-6005-002	M715 (710-740 MHz)
	910-6005-003	M610 (603-630 MHz)
Extension Antenna Kit (with 50 ft plenum cable)	910-6005-011	M915 (902-928 MHz)
	910-6005-012	M715 (710-740 MHz)
	910-6005-013	M610 (603-630 MHz)
Extension Antenna Combiner	910-6005-200 (2way)	
	910-6005-300 (3way)	
	910-6005-400 (4way)	

TABLETOP MICROPHONE

Mic Polar Pattern :	Cardioid, Omni
RF Output:	1, 10, 25 or 50mW, user selectable
Power:	USB or Battery
Antenna:	Internal
LED Indicators:	Battery status, mute status
Button:	Mute on/off
Programmable switch:	Talk, mute, logic mute, on / off
Frequency Response:	60 - 20kHz (Omni version); 60 - 15kHz (Cardioid version)
Signal to Noise Ratio:	80dB Typ. at 1kHz (1Pa) 'A' weighted (Omni version); 73dB Typ. at 1kHz (1Pa) 'A' weighted (Cardioid version)
Battery:	Two rechargeable NiMH included, standard AA size
Battery Charge Time:	4 hrs
Battery Talk Time:	8 hrs continuous usage per charge, typical @ 1mW
Dimension:	3.9 L x 2.8 W x .69 H inches
Weight:	0.25lbs (.12 Kg) including batteries



Model	Part Numbers	RF Range
Cardioid version	910-6001-001	M915 (902-928 MHz)
	910-6001-002	M715 (710-740 MHz)
	910-6001-003	M610 (603-630 MHz)
Omni version	910-6001-011	M915 (902-928 MHz)
	910-6001-012	M715 (710-740 MHz)
	910-6001-013	M610 (603-630 MHz)

GOOSENECK MICROPHONE

Mic Polar Pattern :	Cardioid
Gooseneck lengths:	12 inch and 18 inch, with double bend
RF Output:	1, 10, 25 or 50mW, user selectable
Frequency Response:	60 - 15kHz
Signal to Noise Ratio:	73dB Typ. at 1kHz (1Pa) 'A' weighted
Antenna:	Internal
Power:	USB or Battery
Button:	Press to talk, press to mute (or logic mute), toggle on/off
LED Indicators:	Battery status, mute status
Programmable switch:	Talk, mute, logic mute, on / off
Battery:	Four rechargeable NiMH included, standard AA size
Battery Charge Time:	4 hrs
Battery Talk Time:	16 hrs continuous usage per charge, typical @ 1mW
Dimension:	6.1 L x 4.6 W x 1.4 H inches
Weight:	1.60lbs (.72 Kg) including batteries



Model	Part Numbers	RF Range
12 inch neck	910-6002-121	M915 (902-928 MHz)
	910-6002-122	M715 (710-740 MHz)
	910-6002-123	M610 (603-630 MHz)
18 inch neck	910-6002-181	M915 (902-928 MHz)
	910-6002-182	M715 (710-740 MHz)
	910-6002-183	M610 (603-630 MHz)

HANDHELD MICROPHONE

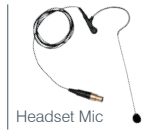
Mic Polar Pattern :	Cardioid
RF Output:	1, 10, 25 or 50mW, user selectable
Frequency Response:	60 - 15kHz
Signal to Noise Ratio:	Above 57dB at 1 kHz (1Pa) 'A' weighted
Antenna:	Internal
Display:	OLED
Power:	USB or Battery
Indicators:	Battery status, mute status
Programmable switch:	Talk, mute, logic mute, on / off
Battery:	Two Rechargeable NiMH included, standard AA size
Battery Charge Time:	4 hrs
Battery Talk Time:	8 hrs continuous usage per charge, typical @ 1mW
Dimension:	10.2 L x 1.4 W x 1.4 H inches
Weight:	0.75lbs (.34 Kg) including batteries



Model	Part Numbers	RF Range
Handheld Mic	910-6003-001	M915 (902-928 MHz)
	910-6003-002	M715 (710-740 MHz)
	910-6003-003	M610 (603-630 MHz)

BELTPACK TRANSMITTER

RF Output:	1, 10, 25 or 50mW, user selectable
Antenna:	External, field replaceable
Display:	OLED
Power:	USB or Battery
Indicators:	Battery status, mute status
Programmable switch:	Talk, mute, logic mute, on / off
Mic input impedance:	47 K Ohms
Mic bias:	3V
Mic connector:	TA4
Battery:	Two Rechargeable NiMH included, standard AA size
Battery Charge Time:	4 hrs
Battery Talk Time:	8 hrs continuous usage per charge, typical @ 1 mW
Dimension:	2.8 L x 2.4 W x .66 H inches
Weight:	0.35 lbs (.16 Kg) including batteries



Model	Part Numbers	RF Range
Beltpack Transmitter	910-6004-001	M915 (902-928 MHz)
	910-6004-002	M715 (710-740 MHz)
	910-6004-003	M610 (603-630 MHz)
Lavalier Mic	910-6004-010	Lavalier Mic for Beltpack transmitter
Headset Mic	910-6004-020	Headset Mic for Beltpack transmitter

LAVALIER MIC FOR BELTPACK TRANSMITTER

Mic polar pattern:	Omni
Frequency response:	20 - 20kHz
Signal to Noise ratio:	above 56dB at 1kHz (1Pa) 'A' weighted

HEADSET MIC FOR BELTPACK TRANSMITTER

Mic polar pattern:	Omni
Frequency Response:	50 - 18kHz
Signal to Noise ratio:	Above 58dB at 1kHz (1Pa) 'A' weighted
Headset:	Single-ear headset

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