



## ATTUNE HD Communications System Specifications

### CENTER MODULE—WX-CC411B/WX-CC412B

See manual for additional specifications.

<b>Operating frequency</b>		1921.536 MHz to 1928.448 MHz
<b>Power</b>	Power source	AC 100 V to 120 V 50 Hz/60 Hz
	Connector	Universal Type with an 3 pins AC Inlet
	Power consumption	19 W
<b>Operating</b>	Temperature range	0 °C to +40 °C {32 °F to 104 °F}
	Humidity range	20 % to 90 % (no condensation)
<b>Dimensions</b>	MM	375 mm (W) × 275 mm (H) × 50 mm (D)
	Inch	14 <sup>49</sup> / <sub>64</sub> " (W) × 10 <sup>53</sup> / <sub>64</sub> " (H) × 1 <sup>31</sup> / <sub>32</sub> " (D)
<b>Mass</b>		Approx 1.9 kg {4.2 lbs.} (Excluding the wall mounting bracket)

### ATTUNE HD WIRELESS REPEATER SPECIFICATIONS—WX-CR480

<b>Wireless</b>	Used frequencies	1921.536 MHz to 1928.448 MHz
	Antenna	Rod antenna
	Reception	Diversity reception
<b>Power</b>	Connector	Micro USB type B
	Compatible cables	USB cable (commercially available)
	Power source	USB power adaptor (commercially available, DC 5 V, 0.5 A or more)
<b>Display (indicator)</b>		STATUS
<b>Operating temperature range</b>		0 °C to +40 °C {32 °F to 104 °F}
<b>Operating humidity range</b>		20 % to 90 % (no condensation)
<b>Dimensions</b>		Approx. 185 mm (W) Å~ 160 mm (H) Å~ 32 mm (D) {7-5/16 inches Å~ 6-5/16 inches Å~ 1-1/4 inches} (without antennas)
<b>Mass</b>		Approx. 360 g {0.79 lb}
<b>Finish</b>		White finish
<b>Installation</b>		Wall



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## ATTUNE HD ELECTRIC MICROPHONE SPECIFICATIONS—WX-CM470

<b>Frequency response</b>		100 Hz - 8000 Hz (-10 dB, Typical)		
<b>Sensitivity</b>		-10 dB (0 dB=1 V/Pa, 1 kHz, Typical)		
<b>Cable</b>	Length	Approx 1000 mm {39 <sup>3</sup> / <sub>8</sub> "} two core shielded wire		
	Outer diameter	ø3 mm {ø0.11 inches}		
	Inner wire	AWG24		
	Inner sheath color	Red: +	White: -	Black: GND
<b>Operating temperature</b>		-20 °C to +50 °C {-4 °F to 122 °F}		
<b>Dimensions</b>	MM	94 mm x 56 mm x 42 mm (Excluding projections)		
	Inch	3 <sup>4</sup> / <sub>64</sub> " (W) x 2 <sup>1</sup> / <sub>64</sub> " (H) x 1 <sup>2</sup> / <sub>32</sub> " (D) (Excluding projections)		
<b>Mass</b>		Approximately 81 g {0.18 lb}		
<b>Finish</b>		Plastic-molded, black		

## ATTUNE HD PASSIVE SPEAKER/MICROPHONE SPECIFICATIONS WX-CS560

<b>Speaker</b>	Sound pressure level	90 dB (1 W, 1 m, Typical)		
	Impedance	8 ohms		
	Frequency response	250 Hz - 15 000 Hz (-10dB, Typical)		
	Power capacity	5 W (RMS <sup>1</sup> )		
<b>Microphone</b>	Sensitivity	-52 dB (0dB=1V/Pa, 1kHz, Typical)		
	Frequency response	100 Hz - 6 000 Hz (-10dB, Typical)		
<b>Misc.</b>	Input/Output	Stranded cables, connector is attached to the end		
<b>Cables</b>	Length	Approximately 2700 mm two core shielded wire		
	Inner sheath color:	Red: +	White: -	Black: GND
<b>Operating temperature</b>		-20 °C to +50 °C {-4 °F to 122 °F}		
<b>Dimensions</b>	MM	114 mm x 114 mm x 70 mm (Excluding projections)		
	Inch	4 <sup>1</sup> / <sub>2</sub> " (W) x 1/2" (H) x 2 <sup>3</sup> / <sub>4</sub> " (D) (Excluding projections)		
<b>Mass</b>		Approx 1.0 kg {2.2 lbs.} (without bracket) Approx 1.2 kg {2.6 lbs.} (with brackets)		
<b>Finish</b>		Plastic-molded, black		

1 Rated noise power specified by IEC60268-5:2003+A1:2007(E). Dimensions and weight indicated are approximate.

## ATTUNE HD 457 HEADSET SPECIFICATIONS—WX-CH457

<b>Frequency Characteristic</b>		1921.536 MHz to 1928.448 MHz	
<b>Power Supply</b>		DC 3.7 V (Rechargeable Li-ion Battery)	
<b>Mass</b>		Approx 120 g {0.26 lbs} (including the battery)	
<b>Operating Temperature Range</b>		0 °C to +40 °C {32 °F to 104 °F}	
<b>Microphone</b>	Maximum Input Level	110 dB SPL	
	Nominal Output Level	96 dB SPL	
<b>Earphone</b>	Maximum Output Level	Less than 115 dB SPL	
	Frequency Response	300 Hz to 3 kHz	
	Output Volume Control	-3 dB to +9 dB (3 dB step)	

## ATTUNE HD BATTERY—WX-SB100

<b>Rated voltage/capacity</b>		3.7 V DC/700 mA	
<b>Battery type</b>		Rechargeable Li-ion Battery	
<b>Operating ambient temperature</b>	Charging	+5 °C to +35 °C	
	Operation	+5 °C to +35 °C	
	Storage	-20 °C to +40 °C (3 months or less)	
<b>Humidity</b>		10 % to 95 %	
<b>Dimensions</b>		5.9 mm (H) x 31.4 mm (W) x 39.5 mm (D)	
<b>Mass</b>		Approx. 19 g	

## ATTUNE HD BATTERY CHARGE WX-Z3040A

<b>AC adaptor</b>	Rated input	100 V to 240 V AC, 50 Hz/60 Hz	
	Rated output	24 V DC, 2.5 A	
<b>Fast charge current</b>		400 mA ±10% x4 circuits	
<b>Ambient operating temperature</b>		5 °C to 35 °C {41 °F to 95 °F}	
<b>Dimensions</b>	MM	204 (W) x 100 (H) x 46.5 (D) mm	
	Inch	8 <sup>1</sup> / <sub>2</sub> " (W) x 4 <sup>5</sup> / <sub>16</sub> " (H) x 1 <sup>13</sup> / <sub>16</sub> " (D)	
<b>Weight</b> (excluding AC adaptor and mount bracket)		450 g {0.992 lbs.}	

Dimensions and weights indicated are approximate. Specifications are subject to change without notice

