

	IR-820SP Infrared Wireless Speaker
Power Source	24 V DC (supplied from IR-802T)
Power Consumption	4.4 W (based on UL standard)
Rated Output	20 W
Frequency Response	100 Hz – 20 kHz (-10 dB) at installation in 1/2 free sound field (Measured by installing the unit in the center of a ceiling.)
Amplification System	Class D
Distortion	5 % or less (rated output)
Speaker Component	12 cm (4.72") cone-type
Infrared Wireless Receiver	
Wavelength	870 nm
Carrier Frequency	Channel A (for teacher) : 3.100 MHz Channel B (for students) : 3.350 MHz
Reception Angle	360° (Horizontal)
Connection Terminal	RJ-45
LED Indicator	Power (green) x 1
UL Code	UL60065, UL2043
Mounting Hole	ø 300 mm (11.81")
Usage Cable	CAT-5 UTP
Operating Temperature	-10 °C to +50 °C (14 °F to 122 °F)
Operating Humidity	90% RH or less (no condensation)
Finish	Enclosure : Steel plate, plating Baffle : Fire-resistant ABS resin (resin material grade: UL94 V-0), white Punched net : Steel plate, white Filter section : Polycarbonate, optical cut filter
Dimensiones	ø12.6" x 8.07" (D) (ø320 x 205 mm)
Weight	7.5 lbs (3.4 kg)
Accessories	Safety wire x 1, Ceiling reinforcement ring x 1, Trim ring x 1, Paper pattern x 1
Option	Tile bar bridge: HY-TB1

	IR-310M Infrared Wireless Microphone	IR-300M Infrared Wireless Microphone	IR-200M Infrared Wireless Microphone
Batteries	One piece of IR-200BT-2 rechargeable battery for the infrared wireless microphone (option)	IR-200BT-2 rechargeable batteries for the infrared wireless microphone (option) or AA alkaline dry cell batteries (2 pieces)	
Current Consumption	typ.215 mA (1.2 V)	typ.250 mA (2.4 V, Power selector switch: N)/typ.340 mA (2.4 V, Power selector switch: H)	
Infrared Emitter			
Wavelength	870 nm (AM: Brightness modulation)		
Carrier Frequency	Channel A: 3.100 MHz/Channel B: 3.350 MHz		
Transmission Distance	50 ft (In an unobstructed space)	Approx. 65 ft (Power selector switch: H; In an unobstructed space) Approx. 50 ft (Power selector switch: N; In an unobstructed space)	
Maximum Input Sound Pressure	120 dB SPL		
Input Sensitivity Adjustment	Adjustment range: 2 levels (High, Low)	Adjustment range: -9 dB to 0 dB (factory-preset: 0 dB)	-
Microphone Unit	Unidirectional electret condenser microphone		
Frequency Response	100 Hz – 12 kHz		
Preemphasis	300 μs		
Input	External microphone input (ø3.5 monaural mini jack, phantom powered)		-
Battery Operation Time	Approx. 8 hours (one piece of IR-200BT-2)	Approx. 8 hours (IR-200BT-2, Power selector switch: N) Approx. 6 hours (Alkaline batteries, Power selector switch: N)	
Operating Temperature	0 °C to + 40 °C (32 °F to 104 °F)		
Operating Humidity	90 % RH or less (no condensation)	30 % to 85 %RH	
Finish	Control Section: ABS resin, white/Filter Section: Polycarbonate, optical cut filter	Control Section: ABS resin, metallic gray, paint, 50% gloss Filter Section: Polycarbonate, optical cut filter	
Dimensions	2.13" (W) x 4.29" (H) x 1.06" (D) (54.2 x 109 x 27 mm)	2.52" (W) x 3.59" (H) x 1.07" (D) (64 x 91.3 x 27.3 mm)	ø 1.46" x 9.52" (ø 37 x 241.8 mm)
Weight	0.21 lbs (95 g) (with battery and strap)	0.29 lbs (130g) (with battery and strap)	0.37 lbs (170 g) (with battery)
Accessories	Neck strap x 1	Screw driver (for setting) x 1, Color label (6 colors) x 1	

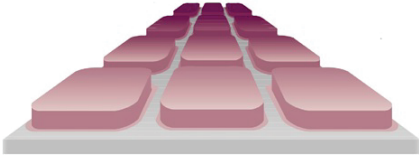
	IR-310BC Battery Charger	IR-200BC Battery Charger
Power Source	AC mains 50/60 Hz (use of the supplied AC adapter)	
Current Consumption	Max.: 2 A	
Charging Time	Max.: 3 hours	
Number of Wireless Microphones Charged Simultaneously	1 piece	2 pieces*
Operating Temperature	0 °C to +40 °C (32 °F to 104 °F)	
Operating Humidity	90 % RH or less (no condensation)	30 % to 85 % RH (no condensation)
Finish	Control section: PPE resin, white	Case: ABS resin, metallic gray, paint, 50% gloss Microphone receptacle section : PPE resin, black
Dimensiones (W) x (H) x (D)	2.99" x 2.97" x 2.36" (76 x 75.5 x 60 mm)	9.37" x 4.31" x 3.86" (238 x 109.5 x 98 mm)
Weight	0.23 lbs (105 g)	1.4 lbs (635 g) (unit only, including mounting adapter(accessory))
Accessories	AC adapter x 1, Power cord x 1	AC adapter (DC cord length: 5.91 ft) x 1, Power cord (6.56 ft) x 1, Mounting adapter (preinstalled) x 2

*Use of the mounting adapter allows one the IR-200M and one IR-300M to be charged in combination

	IR-802T Infrared Wireless Tuner
Power Source	120 V CA, 50/60 Hz (se debe usar el adaptador de CA suministrado)
Power Consumption	8 W (based on UL standards) Max. 40.8 W (rated output of IR-820SP)
Rated Output	20 W
Receiving Frequency	Teacher (Channel A): 3.100 MHz Student (Channel B) : 3.350 MHz
Receiver Frequency	50 dB or more, Signal-to-noise ratio (40 dBµV input, 1 kHz modulation, ±4.8 kHz deviation)
S/N Ration	Tuner: 60 dB or more (60 dBµV input, 1 kHz modulation, ±4.8 kHz deviation, A-weighted, Equalization: Centered) AUX: 75 dB or more (A-weighted, Equalization: Centered)
Tone Squelch Frequency	32.768 kHz
Input	AUX PC: line, -10 dB*, 10 kΩ, unbalanced, stereo mini jack (internal mixing) AUX DVD/TV: line, -10 dB*, 10 kΩ, unbalanced, 2P RCA jack (internal mixing) AUX MP3: line, -10 dB*, 10 kΩ, unbalanced, stereo mini jack (internal mixing) Mute: 25 V line signals of telephone paging from a school intercom system)
Output	ALD (Assistive Listening Device): line, -10 dB*, 10 kΩ, unbalanced, monaural mini jack Speaker: RJ45 (dedicated terminal for IR-820SP connection)
Frequency Response	Tuner: 100 Hz - 12k Hz, AUX: 100 Hz - 20k Hz
Equalization	High: ±10 dB at 10 kHz/Mid: ±10 dB at 1.3 kHz/Low: ±10 dB at 100 Hz
Mute Function	Muted by 25 V line signals
LED Indicator	Power (green) x 1, Infrared reception (yellow) x 2, Mute (red) x 1
Operating Temperature	-10 °C to +50 °C (14 °F to 122 °F)
Operating Humidity	90%RH or less (no condensation)
Finish	Panel: Aluminum, black/Case: Steel plate, black
Dimensions (W) x (H) x (D)	8.27" x 1.81" x 12.28" (210 x 46 x 312 mm)
Weight	3.97 lbs (1.80 kg)
Accessories	AC adapter(DC cord length:5.91 ft) x 1, AC power cord (6.56 ft) x 1 Volume control cover x 6, Removable terminal plug (2 pins) x 1
Option	Half-width blank panel: MB-15B-BK

	IR-801AF Audio Interface Unit
Power Source	24 V DC (supplied from IR-802T)
Infrared Frequency Channel	Channel A: 3100 MHz
Contact Output	Relay contact output, contact capacity: 30 V DC/ 2 - 500 mA, removable terminal block
Audio Output	-20 dB*, electrically-balanced, removable terminal block (3 pins)
Operating Temperature	-10 °C to +50 °C (14 °F to 122 °F)
Operating Humidity	90% RH or less (no condensation)
Finish	Control section: ABS resin, Black
Dimensions (W) x (H) x (D)	8.27" x 2.73" x 7.13" (210 x 44 x 181 mm)
Weight	1.23 lbs (560 g)
Accessories	Removable terminal block (2 pins) x 1 Removable terminal block (3 pins) x 1

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