

INFRARED WIRELESS MICROPHONE SYSTEM



Introducing an infrared wireless microphone system that meets the need for secure and interference-free communication

Offering secure and interference-free commun

TOA's latest Infrared Wireless Microphone System incorporates a range of conference and communication enhancing features that will appeal to users who want confidentiality as well as interference-free communication. Because the microphones use infrared signals, sensitive matters being discussed in a meeting room won't leave the room, and the wireless microphones can be used in several adjacent classrooms simultaneously without interference. In this way, this infrared microphone system can meet communication needs in educational and business environments perfectly.

The TOA Wireless Microphone System is ideal for use in schools. If the microphone is set for the same channel, there is no need for teachers to change to another one when moving to a different room. This IR system ensures that the teacher's voice reaches all the students in the classroom, and helps the students to better understand what's being taught. Consequently, a stress-free classroom and learning environment for both teachers and students is created.

The microphones are also an excellent solution for secure, efficient and smooth conducting of meetings, free from concern about confidentiality, or about being disturbed by interference from outside. They can even be used in a room where a TOA TS-800/900 Series Infrared Wireless Conference System is also in operation, offering an added convenience.

IR-200M

Infrared Wireless Microphone (Hand-held)

Designed for stable voice transmission, thanks to two infrared emitters carefully located on a microphone body shape that helps prevent the emitters from being accidentally covered by a hand when holding the microphone.

- Lightweight body keeps hands from tiring even during long hours of use (0.4 lbs with 2 alkaline batteries).
- Infrared light emission intensity is adjustable at 2 levels.
- •T wo selectable channel frequencies.
- · Antibacterial treatment.
- · Employs an electret condenser microphone unit.
- · Low-battery indicator.
- Color stickers supplied to distinguish one unit from other wireless microphones.

IR-200BC Battery Charger

- · Capable of charging up to 2 microphones (both hand-held and hands-free types) at a time.
- W ith rapid charging feature, up to 2 infrared microphones can be simultaneously charged in 3 hours (maximum).
- Charge status indicator (charging, charge complete).



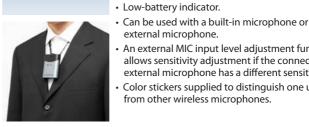




IR-300M Infrared Wireless Microphone (Hands-free)

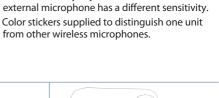
external microphone.





Optional Microphones





YP-M301

Headset Microphone

An external MIC input level adjustment function allows sensitivity adjustment if the connected

ication in classrooms, conferences, banquets...





Infrared Wireless Tuner

· Comes with a built-in 2-channel fixed-frequency tuner.

•T wo line outputs, one with a MIX output switch allowing output of mixed voices from channels A and B.

• Rack-mountable with optional brackets (MB-WT3/MB-WT4)

Infrared Wireless Distributor

· Equipped with signal reception light and knob for

microphone volume control.

· Enables installation of up to 4 infrared light receivers per unit



IR-500R Wall-Mount Receiver

- · Supplied wall-mounting brackets facilitate installation.
- · Can be installed in an electric circuit box.
- · Equipped with power indicator LED.
- Reception area is up to approx. 49' line of sight.*
- Infrared light reception angle can be changed.

IR-510R **Ceiling-Mount Receiver**

- · Supplied ceiling-mounting brackets facilitate installation.
- Equipped with power indicator LED.
- ·lt covers a practical radius of approx. 26'*

IR-520R Wall-Mount Receiver

- · Can be mounted on a wall and on a microphone stand. Supplied stand-mounting brackets facilitate installation.
- · Equipped with power indicator LED.
- Reception area is up to approx. 49' line of sight.*



YW-1022/1024, the system with up to 16 infrared receivers can be configurable. Rack-mountable with optional

conjunction with IR-702T and

· By using the IR-700D in

TOA

IR-702T

TOA

IR-700D

brackets (MB-WT3/MB-WT4)





SPECIFICATIONS			
Model No.	IR-200M Infrared Wireless Microphor	e IR-300M Infrared Wireless Microphone	
Battery	IR-200BT-2 rechargeable battery for the infrared wireless microphone (2 pieces) or AA alkaline dry cell battery (2 pieces)		
Current Consumption	typ.250mA (2.4V, Power selector switch: N)/typ.340mA (2.4V, Power selector switch: H)		
Infrared Emitter			
Wavelength	870 nm (AM: Brightness modulation)		
Modulation Method	Frequency modulation		
Carrier Frequency	Channel A: 3.100 MHz/Channel B: 3.350 MHz		
Transmission Distance	Approx. 65' (Power selector s	witch: H; In an unobstructed space.)/Approx. 49' (Power selector switch: N; In an unobstructed space.	
Tone Signal		32.768kHz	
Modulation Sensitivity		±4.8 kHz (1 kHz, when SPL of 84 dB is input)	
Maximum Input Sound Pressure		120 dB SPL	
Input Sensitivity Adjustment	—	Adjustment range: -9dB to 0dB (factory-preset: 0dB)	
Microphone Unit		Unidirectional electret condenser microphone	
Frequency Response		100Hz – 12kHz	
Preemphasis		30Qus	
Input	_	External microphone input (ø3.5 monaural mini jack)	
Battery Operation Time		IR-200BT-2 rechargeable battery for the infrared wireless microphone is used; Power selector switch: N) rox. 6 hours (when the alkaline battery is used; Power selector switch: N)	
Operating Temperature		32° F tơi 07.6° F	
Operating Humidity		30% to 85% RH	
Finish	Control Section	ABS resin, metallic gray, 50% gloss, paint/Filter Section: Polycarbonate, optical cut filter	
Dimensions	1.3" (W) x 5.8" (H) x 0.4" (D)	2.5" (W) x 3.6" (H) x 1.1" (D)	
Weight	0.4 lbs(with batteries)	0.3 lbs (with batteries & strap)	
Accessories		Screw driver (for setting) x 1, Color label (6 colors) x 1	

Model No.	IR-500R Infrared Wireless Reciever	IR-510R Infrared Wireless Reciever	IR-520R Infrared Wireless Reciever
Power Source		24V DC (supplied from the optional IR-702T)	
Current Consumption	Max. 40mA	Max. 60mA	Max. 30mA
Infrared Detector Wavelength		870nm	
Carrier Frecuency		Channel A: 3.100MHz/Channel B: 3.350MHz	
Reception Area	Approx. 49' (in the space where no obstacles exist)	Practical radius of approx. 26' in a space without any obstacle	Approx. 49' (in the space where no obstacles exist)
Reception Angle	Vertical: 80 (up to 30 movable downward) Horizontal: 80(up to 30 movable left or right)	—	-
Connection Terminal		75Ω, BNC jack	
Operating Temperature		32° F to 107.6° F	
Operating Humidity		30% to 85% RH	
Finish	Case: Polycarbonate resin, visible light cut filte Base: ABS resin, off-white	Case: Polycarbonate resin, visible light cut filter Base: ABS resin, black	Case: Polycarbonate resin, visible light cut filter
Dimensions	3.0" (W) x 4.7" (H) x 2.8" (D)	4.7" (W) x 2.8" (H) x 0.5" (D)	3.3" (W) 2.5" (H) x 1.3" (D)
Weight	0.5 lbs (unit only)	0.5 lbs (unit only)	0.2 lbs (unit only)

	IR-702T Infrared Wireless Tuner	
Power Source	AC mains 50/60Hz (supplied from the accessory AC adaptor)	Power Source
Power Consumption	15W or less	Power Consum
Receiving Frequency	Channel A: 3.100MHz/Channel B: 3.350MHz	Input/Output
Receiver Sensitivity	S/N ratio over 50dB (40dB ^µ V input, 1 kHz modulation,	Band-Pass Free
	±4.8 kHz deviation)	Gain
S/N Ratio	61 dB or more (60dB μ V input, ±4.8 kHz deviation, A-weighted)	Infrared Receive
Tone Squelch Frequency	32.768kHz	
Infrared Receiver Input	75Ω, BNC jack x 2 (Infrared wireless receiver's	Distribution Out
	power source: 24V DC, max. 220mA in total of 2 terminals)	Operating Temp
Output	Channel A and B: -10 dB* (±4.8kHz deviation, at volume level max),	Operating Humi
	600Ω, electronically balanced, 3 pole phone jack Note: Channel A switchable to mixer output	Finish
Frequency Response	100Hz – 12kHz	Dimensions
Operating Temperature	14° F to 122° F	Weight
Operating Humidity	30% to 85% RH	Accessories
Finish	Case: ABS resin, black	
Dimensions		
	8.3" (W) x 1.7" (H) x 8.3" (D)	
Weight	1.4 lbs (unit only)	Power Source
Accessories	AC adaptor x1, Power cord (6.6') x 1, Cord w/ phone plug (3.2') x 1	Current Consun
	Color label (6 colors) x 1, Rubber foot x4	01 · T

Power Consumption	25W or less
Input/Output	4 mixing inputs, 2 distribution outputs
Band-Pass Frequency	3.0 – 6.0MHz
Gain	0dB (±3dB)
Infrared Receiver Input	$75\Omega,$ BNC jack x 4 (IR Wireless receiver's power source: 24V DC, 800mA max. in total 0f 4 terminals)
Distribution Output	75Ω, BNC jack
Operating Temperature	14° F to 122° F
Operating Humidity	30% to 85% RH
Finish	Case: ABS resin, black
Dimensions	8.3" (W) x 1.7" (H) x 7.9" (D)
Weight	1.4 lbs (unit only)
Accessories	AC adaptor x 1 Power cord (6.6') x 1 BNC plug-tp-BNC plug cord (50cm) x 1, Rubber foot x 4
	IR-200BC Battery Charger
Power Source	AC mains 50/60Hz (supplied from the accessory AC adaptor)
Current Consumption	Max. 2 A
Charging Time	Max. 3 hours
Number of Wireless microphone to be charged simultaneously	2 pieces*
Operating Temperature	32° F to 107.6° F
Operating Humidity	30% to 85% RH
Finish	Case : ABS resin, metallic gray, 50% gloss,paint, Microphone receptacle section : PPE resin, black

IR-700D Infrared Wireless Distributor

AC mains 50/60Hz (supplied from the accessory AC adaptor)

AC adaptor (DC cord length: 5') x 1, Power cord (6.6') x 1 Mounting adapter (pre-installed) x 2 * Using the mounting adapter allows one each of the IR-200M and IR-300M to be charged in combination.

1.4 lbs (charger with the mounting adapters attached)

9.4" (W) x 4.3" (H) x 3.9" (D)



Dimensions Weight

Accessories

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*0db = 1V



 Ni-MH AA rechargeable battery (containing 2 pieces) dedicated for use with IR-200M/300M.