

## IR-310M Y

### INFRARED WIRELESS MICROPHONE



The IR-310M is a lightweight, hands-free infrared wireless microphone. It is designed for use in the school classrooms and eliminates problems with interface or eavesdropping, allowing simultaneous use in adjacent classrooms. It is capable of operating on one of two selectable IR frequencies and two transmitters can work simultaneously. It is also capable of operation with one piece of rechargeable AA Ni-MH battery IR-210BT-2 for continuous operation up to 8 hours.

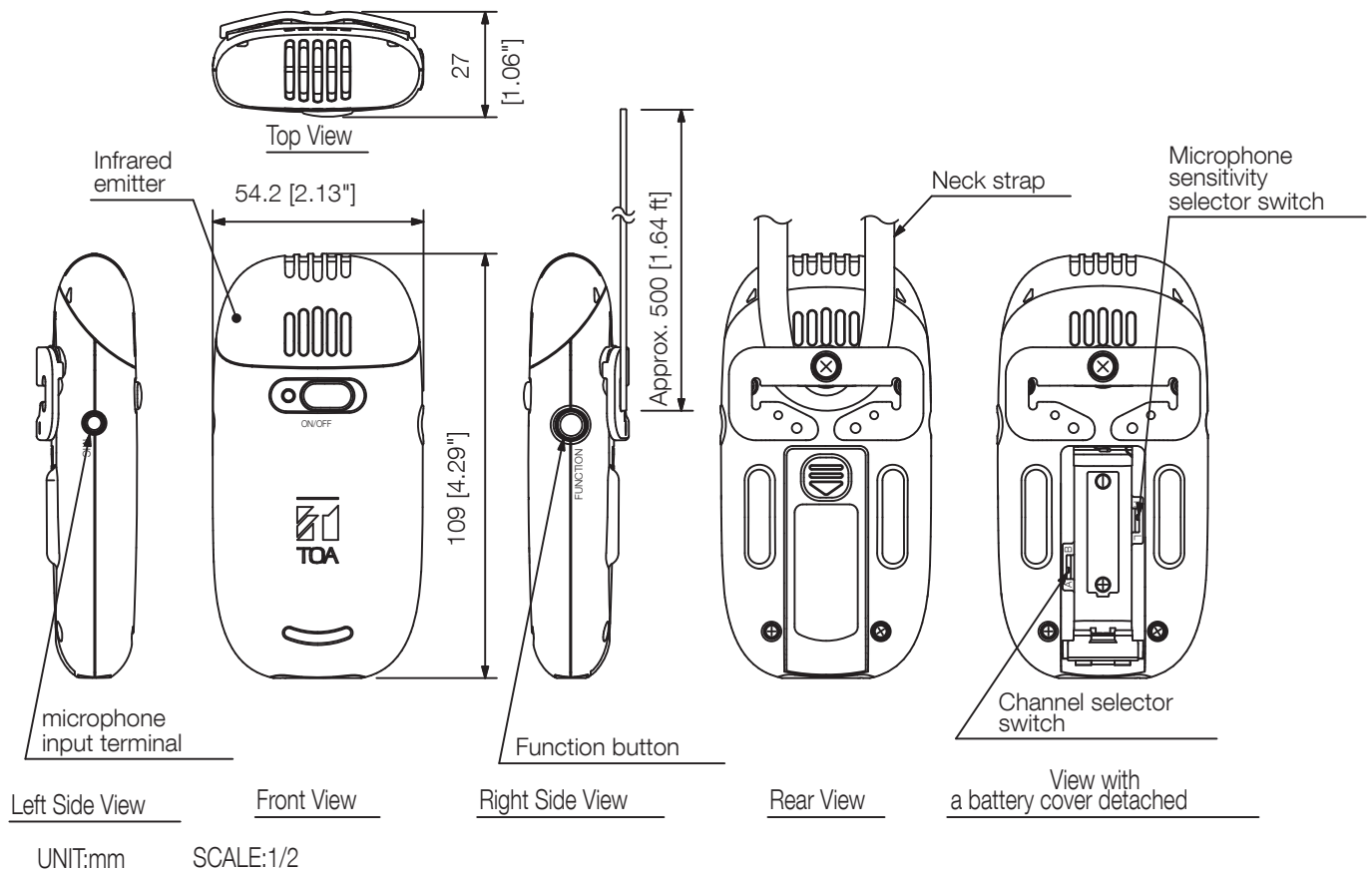
### Key features

- Usable as hands-free or hand-held microphone
- Lightweight body with unobtrusive styling
- 8-hour operation with single AA battery
- Microphone sensitivity adjustable to suit application
- Sturdy clothing clip to prevent wobbling or rotation during hands-free use

## Specifications

Battery	One piece of rechargeable battery for the infrared wireless microphone (option)
Current Consumption	typ. 215 mA (1.2 V)
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. 15 m (50 ft) (in an unobstructed space)
Tone Signal	32.768 kHz
Modulation Sensitivity	±4.8 kHz (1 kHz, when SPL of 84 dB is input)
Maximum Input Sound Pressure Level	120 dB SPL
Input Sensitivity Adjustment	Adjustment range: 2 levels (High, Low)
Microphone Element	Electret condenser microphone, Uni-directional
Frequency Response	100 Hz - 12 kHz
Pre-emphasis	300 µs
Input	External microphone input (ø3.5 monaural mini jack, phantom powered)
Switch	Power Switch, Channel selector Switch, Microphone sensitivity selector switch, Function button
Indicator	Power LED (Combined with battery life indicator)
Battery Life	Approx. 8 hours (when used with one piece of IR-200BT-2 rechargeable battery)
Operating Temperature	0 °C to +40 °C (32 °F to 104 °F)
Operating Humidity	90 %RH or less (no condensation)
Finish	Control section: ABS resin, White Filter section: Polycarbonate, optical cut filter
Dimensions	54.2 (W) x 109 (H) x 27 (D) mm (2.13" x 4.29" x 1.06")
Weight	95 g (0.21 lb) (with battery and strap)
Included Accessories	Neck strap ... 1
Optional Accessories	Battery charger: IR-310BC Ni-MH battery: IR-210BT-2 (containing 2 pieces)

## Dimensions



## A&E specifications

The Infrared Wireless Microphone shall be housed in a ABS resin white case measuring 54.2 (W) x 109 (H) x 27 (D) (2.13" x 4.29" x 1.06") and weighing 95 g (0.21 lbs.) with battery and strap. It shall include an integrated uni-directional condenser microphone featuring high sensitivity and clear sound and infrared emitter to transmit the infrared beam for communications. The Infrared Wireless Microphone shall be lightweight with unobtrusive styling. It shall be usable as hands-free or hand-held microphone. 8 hours operation shall be realized with a single rechargeable NiMH battery (AA). The microphone shall be equipped with an external microphone input terminal (ø3.5 monaural mini jack) allowing it to be used in combination with an optional microphone. Microphone sensitivity shall be adjustable to suit application. Function button shall be incorporated for use in paging or external device control via an optional interface unit. The microphone shall be equipped with sturdy clothing clip to prevent wobbling or rotation during hands-free use. Selectable one of 2 different frequencies. The unit shall have a frequency response of 100Hz to 12kHz and can accept a maximum Sound Pressure Level of 120dB. The Infrared Wireless Microphone shall be the TOA model IR-310M.