



Overview

Dual Channel Infrared Receiver and Amplifier System

The IR2 channel receiver amplifier utilises reliable infrared transmission and is loaded with excellent integration and exceptional versatility. The infrared wireless microphone receiver channels provide freedom of movement and permit hands free performance.

The four auxiliary inputs offer multimedia integration with even distribution of sound for all audio in the classroom and the two separate outputs for assistive listening and recording with active board. It has 5-band equalizer, a 50 watts Class D amplifier and RS-232 functionality which accomplish the IR2 channel receiver amplifier a full range comprehensive integration device.

The IR2 channel receiver amplifier also interfaces with other applications and services such as computer, broadcasting system, fire alarm control unit and emergency alert system.



Features

- 50-Watt Class D power amplifier
- 4 media inputs for computer, DVD/iPod™, MP3, and Aux
- Auxiliary input with Mic or Line level switch
- 2 outputs for both assistive listening and audio recording
- RS-232 integration.
- Ground loop filter switch for computer input to eliminate hum noise
- Charger connection 5V DC USB
- The volume of the audio devices connected to the main receiver system can be wireless controlled from T6r.
- 1 year of warranty



Technical specifications

Receiver Input	Infrared
Modulation	FM Wide-band
Infrared Wavelength	850 nm
Reception Frequencies	CH A : 2.08 MHz / CH B : 2.54 MHz
Tone Signal	32.768 KHz
Frequency Response	40 Hz-20 KHz ±3dB
S/N Ratio	>70 dB
THD	< 1%@1 KHz
Nominal Deviation	± 10 KHz
Maximum Deviation	± 25 KHz
De-emphasis	50 µs
Connectivity Coverage	2500 Sq. Ft.
Equalization	5 band ±12dB
Amplifier	Class D, Two Amplifiers, 25 Watts ea. (RMS), 50 Watts total (RMS) @40
Page Over-Ride	Input voltage: 1 00V-70V-25V Sensitivity: 0-1 0dB
Fire Alarm	AC/DC 5-24V
Security Alert	Contact Closure N/O, N/C Triggered by T6r
RS-232	Yes
Teacher priority	Yes
Sensor Inputs	2, RCA type
Charger Output	DC 5V, USB
Power Supply	C 19V / 3.42A

Ports

Audio input	(1) DVD, Line level, Dual RCA with+ 1 0dB gain control (1) Computer, Line level, 3.5mm with GLI switch (1) Aux, Mic/Line level switchable, 3.5mm (1) MP3, Line level, 3.5mm@ front panel
Aux output	(1), Line level, 3.5mm ALD (post-fader) (1), Line level 3.5mm REC (post-fader)

Dimension

Dimension	215(W) x 190(D) x 44(H) mm
Weight	740 gs

IR Transmitter (Microphone)

Infrared wavelengths	850nm
Transmission frequency	1-CH A: 2.08MHz / 2-CH B: 2.54 MHz 3-CH B: 2.54MHz (push to talk)
Modulation	FM
Pilotone frequency	32.768KHz
Transmission angle	180°, conical
Microphone capsule	Condenser, unidirectional
Location of IR emitter	Built-in, top
Self volume control	HIGH / MIDDLE / LOW switch
External aux input	One 3.5mm stereo jack
Functional control switch	Aux input volume up - Thumb rotary up, Aux input volume down - Thumb rotary down, Mute on/off - Push momentary
Push to talk	Switch to 3-CH, puch and hold the functional control switch to talk
Current consumption	90mA
Battery	Li polymer battery (3.7V/600mAh)
Battery life	Approximately 6-7 hours
Power LED indicator	Battery capacity: Full to low (blue -> purple -> red) Flashing red: Battery low, needs charging Green: Push to talk (on 3-CH B) Charging: Red Charging complete: Green
External power charge	Charging source is compatible from any laptop, PC, travel adaptor (DC 5V/1A) or micro-USB receptacle
Clip and lanyard	Detachable clip and adjustable neck strap with break away clip
Dimensions	19mm (thickness) x 93mm (H) x 30.6mm (W)
Weight	Approximately 39g (with battery)



IR Receiver Box

Infrared wavelenghts	850nm
Modulation system	FM wide-band
Tone signal	32.768KHz(A.B CH)
De-emphasis	50µS
Frequency response	50Hz ~ 13KHz ± 3dB
S/N ratio	>75dB
THD	< 1.0% (at 1 KHz)
Maximum deviation	±22.5KHz
Outputs (modulation factor 22.5KHz dev., Volume: MAX)	(1) Unbalanced Mixed (1/4") output, LINE: 1V/47KΩ, MIC: 100mV/600Ω
Equaliser	5 band (100, 300, 1K, 3K, 10K)
External sensor inputs	4, RCA type
Power supply	DC 12V/1.25A
Size	215mm (W) x 190mm (D) x 44mm (H)
Weight	1.02kgs

What's in the box

User manual	x 1
Amplifier	x 1
Power cable for Amplifier	x 1
HDI wall case for amplifier	x 1
Amplifier brackets	x 2
Power supply for Amplifier	x 1
Speaker (Wall-mount or ceiling)	x 2
Speaker bracket - to attach to IWB	x 2
Speaker bracket - to attach to wall	x 2
Speaker cable	x 2
Screw (black) to attach bracket to speaker	x 4
Screw to mount speaker bracket to IWB	x 4
Speaker (Ceiling-mount)	x 2
Infrared ceiling sensor	x 1
Infrared ceiling sensor bracket	x 1
Infrared sensor cable 15mt	x 1
Lanyard	x 2
HDI infrared pendant microphone	x 2
USB to micro - USB cable	x 2
HDI infrared pendant microphone charger	x 2



Solutions

The HDI Hearing Augmentation Solution can be added to any existing sound system whether in a classroom, conference room or banquet room

