

Amplifier/Receiver



Spectrum™ III IMA-820

Amplifier | Infrared Microphone Receiver | Audio Mixer

Specifications

Receiver Input	Infrared FM
Modulation	FM wide-band
Reception Frequencies	Ch. A: 2.08 MHz Ch. B: 2.54 MHz
Infrared Wavelength	850 nm
Tone Signal	Ch. A: 32.768 kHz
De-emphasis	50 µs
Frequency Response	40 Hz - 18 kHz, ± 3 dB
S/N Ratio	>65 dB
Total Harmonic Distortion	1% @ 1 kHz
Nominal Deviation	± 10 kHz
Maximum Deviation	± 25 kHz
External Sensor Input	2, RCA
Connectivity Coverage	1,600 sq ft
Aux Inputs	1 dual RCA, 3 x 3.5 mm aux line level (1 anti-hum)
Line Output	Lesson Capture: 3.5 mm with gain control - front panel ALS: 3.5 mm with gain control - rear panel
Page Input	2-pin Phoenix; 3 settings: 100 V, 70 V, 25 V
Sensitivity	Level control
Security Alert	Contact closure (COM, N/O, N/C)
Fire Alarm	Contact closure (mutes audio)
Equalization	5-band, ±12 dB
Output Power	4 amplifiers @ 25 W (RMS), 100 W total
Output Impedance	4 Ω
Speaker Connection	4-pin Phoenix connectors
Charger Output	5 V DC, USB
Power Supply	19 V DC / 6.3 A; CE, CSA and UL listed
Dimensions	8.5" W x 1.75" H x 7.5" D
Weight	2 lb 6 oz

Features

- 2 infrared wireless microphone receivers
- Power amplifiers: 4 @ 25 W RMS (100 watts total), digital hybrid class D
- Security Alert contact closure connection
- Fire Alarm contact closure input
- Page override (muting) with pass-through to classroom speakers; input level: 100 V, 70 V, 25 V
- 4 line inputs: DVD, computer, mp3 & aux
- Rear panel: 3.5 mm auxiliary input (mic or line level switch)
- Rear panel: 3.5 mm computer input w/ anti-hum (On/Off switch)
- Front panel: 3.5 mm auxiliary (MP3) input
- Rear panel: DVD input, dual RCA
- Lesson Capture output with level control on rear panel (3.5mm)
- ALS output with level control on rear panel (3.5mm) 5-band equalizer
- Digital Feedback Guard (DFG) Remote teacher priority over line inputs (enabled by Sapphire microphone)
- Power sleep mode to conserve energy
- Drop-in charger connection 5 V DC USB
- Power up to 8, 8 Ω speakers
- 2 external microphone sensor inputs, single RCA
- Rack or shelf/wall mounting kits (optional)
- WC-400 Wall Mount Cabinet (optional)