

# Spectrum III IMA-820



Spectrum III amplifier, 100 watt total, two infrared receivers base station with switching power supply

## 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 $\mu$ s
Frequency Response	40 Hz, -18 kHz, $\pm$ 3 dB
S/N Ratio	>65 dB
THD	<1% @1 kHz
Nominal Deviation	$\pm$ 10 kHz
Maximum Deviation	$\pm$ 25 kHz
External Sensor Input	Two, RCA
Connectivity Coverage	1,600 Sq. Ft.
Aux Inputs	Four Aux, Line Level, one dual RCA, three 3.5mm, one anti-hum Lesson Capture, 3.5mm with Gain Control, Front Panel
Line Output	ALS, 3.5mm with Gain Control, Rear Panel
Page Over-Ride	Input:100V, 70V, 25V, 3pin Phoenix
Sensitivity	Level control
Security Alert	Contact Closure N/O, N/C
Fire Alarm	AC/DC 5-24 volt
Equalization	Five-Band $\pm$ 12 dB
Output Power	four Amplifiers, 25 Watts ea. (RMS) 100 Watts total (RMS)
Output Impedance	4 $\Omega$
Output Connection	Two Phoenix Connectors
Charger Output	5 Volt DC, USB
Power Supply	19VDC / 6.3A CE, CSA and UL Listed
Dimensions	8 1/2" W x 1 3/4" H x 7 1/2" D
Weight	2.2 lbs.

## Features

- Two infrared wireless microphone receivers
- Power Amplifiers: 100 watts total RMS  
four 25 watt ea. Digital Hybrid Class D amplifier
- Security Alert contact connection
- Fire Alarm input AC or DC from 5-24 Volt
- Security Alert contact connection
- Page Over-ride (muting) with Page Pass-through to classroom speakers input level 100v, 70v, 25v
- Four line inputs for DVD, Computer, MP3 & Aux
- Auxiliary input (Mic or Line level switch)
- Computer Balun anti-hum (On/Off switch)
- Front-panel auxiliary input for MP3 (3.5mm)
- DVD input dual RCA on rear panel
- Aux and Computer input 3.5mm on rear panel
- Lesson Capture output with level control on rear panel 3.5mm
- ALS output with level control on rear panel 3.5mm
- Five-band equalizer
- DFG (Digital Feedback Guard)
- Remote Teacher Priority over line inputs
- Power up to eight (8) speakers
- Power sleep mode to conserve energy
- Drop-in charger connection 5volt DC USB
- Rack or shelf/wall mounting kits (optional)



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