

## Spectrum™ III Specifications

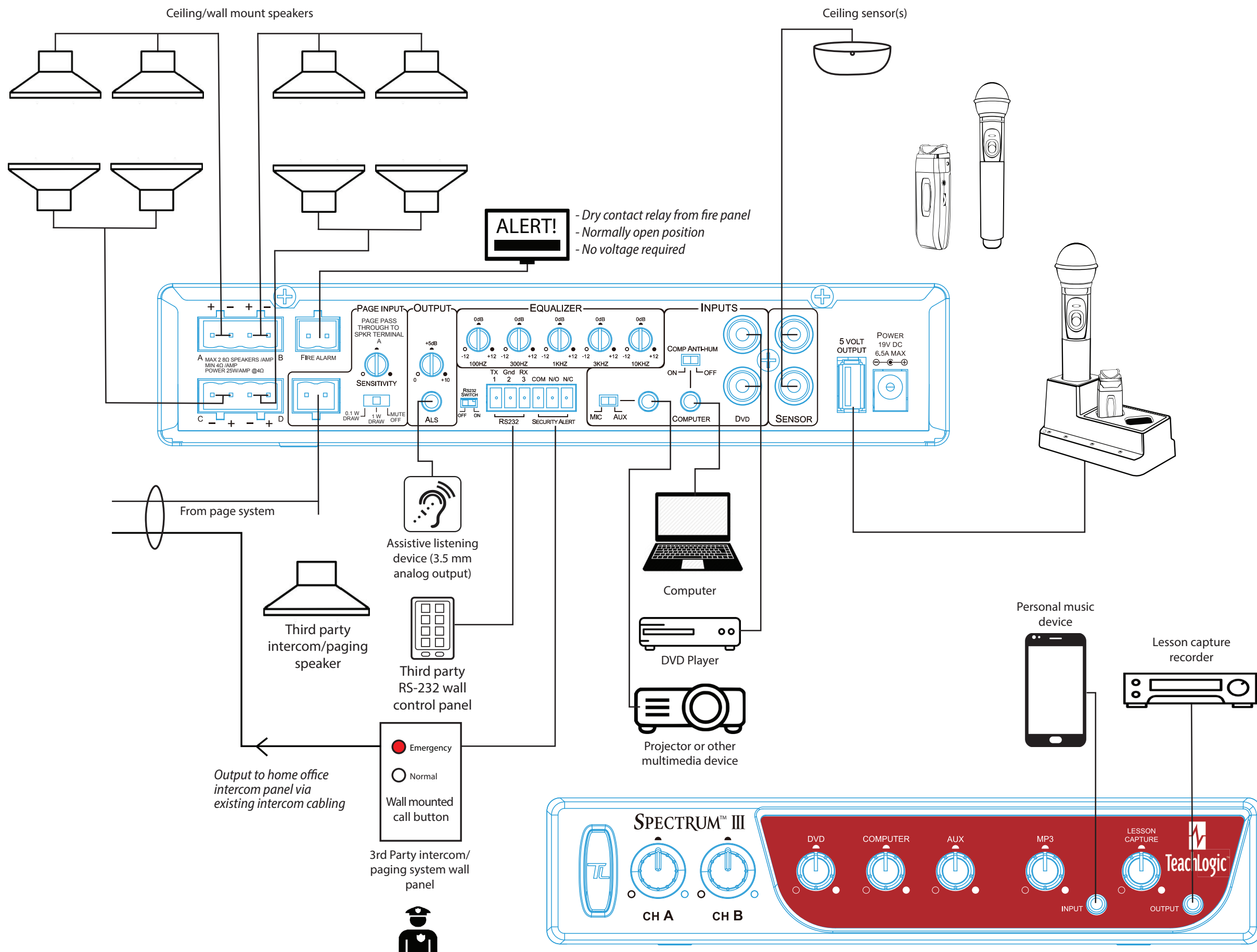
Receiver Input	Infrared FM, 2 wireless mic channels
Modulation	Wide-band FM
Reception Frequencies	Ch. A: 2.08 MHz   Ch. B: 2.54 MHz
Deviation	10 kHz Nominal, 25 kHz Maximum
De-emphasis	50 μs
Tone Signal	Ch. A: 32.768 kHz
Infrared Wavelength	850 nm
External Sensor Input	2, RCA, powered ports
Connectivity Coverage	1,600 sq ft per sensor, up to 2 sensors supported
Total Harmonic Distortion	<1% @ 1 kHz
Frequency Response	20 H - 20 kHz, ± 3 dB
Aux line level Inputs	4: 1 dual RCA, 3.5mm
Anti-hum balun	present on 1 Aux input for computer
Wired Mic input	1 aux input switchable to mic input
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; 25V or 70V normal
Page Input Sensitivity	10 V min
Security Alert	Contact closure (COM, N/O, N/C)
Fire Alarm	Contact do sure by fire panel mutes audio
Amplifier Output Power	100 W RMS, 4 x 25 W channels
Output Power	4 digital amplifiers @ 25 W, 100 W total (RMS)
Output Impedance	4 Ω minimum
Equalization	5-band, ±12 dB
S/N Ratio	>65 dB
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

# Spectrum™ III

Amplifier | Infrared Microphone Receiver | Audio Mixer  
IMA-820



# TeachLogic Spectrum™ III Wiring Diagram



## 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;
- 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
- Rack or shelf/wall mounting kits (optional)
- WC-400 Wall Mount Cabinet (optional)
- 2 external microphone sensor inputs, single RCA