

# Spectrum III wireless classroom microphone system



The Spectrum III is our optimum Digital Hybrid sound-field system for use in the classroom. Two infrared receivers, 100 watts of Class D amplifiers, digital equalization and digital limiting provide freedom of movement and allow simultaneous use of two microphones. The four auxiliary inputs provide multi-media integration with even distribution of sound for all audio in the classroom. RS-232 input compatible with most wall controllers allows for remote adjustment of inputs. It has a Line level output for Lesson capture and second output for ALS (Assistive Listening System).

When combined with Sapphire (IRT-60) transmitter the Spectrum III delivers several key features such as; Security Alert circuit which is activated by holding down a button for 5 seconds on transmitter, Teacher Voice Priority and Remote volume control for line inputs.

TeachLogic has developed infrared technology to a very high level that guarantees constant connectivity. Our Digital Feedback Guard (DFG) is a complete system approach to eliminating acoustical feedback in sound-field systems. Our microphone capsules ensure that you can achieve the maximum amount of gain before feedback, while maintaining a very natural reproduction of the presenter's voice.

Page-Pass through with muting (even if AC power isn't present) and Fire Alarm Mute connections are standard on each amplifier, with preset power sleep mode feature to conserve energy when not in use.



*Sapphire*  
(IRT-60)

Microphone Transmitter  
Security Alert  
Teacher Priority

The Sapphire's light weight, small size, and optimum performance make it the ideal infrared wireless microphone to complete any of our infrared classroom system packages.

Security Alert button notifies office of problem in classroom.

Teacher Priority and Remote volume control on all line inputs.

# Spectrum III wireless classroom microphone system



- Digital Feedback Guard (DFG)
- Security Alert contact connection
- Fire Alarm Input, contact closure
- RS-232 wall panel control of line input levels
- Remote Teacher Priority feature (over line inputs)
- Drop-in charger connection 5 volt DC, USB

## All Spectrum III Systems Include

- Spectrum III Receiver/Amplifier IMA-820
- Ceiling Sensor for IR connectivity ICS-55 throughout room
- Four Speakers, either
  - a. Ceiling-Mount with Tile Bridge SP-628
  - b. Wall-Mount with bracket SP-2000
  - c. Lay-In Panel Speaker with SP-628L 100' of plenum rated cable

## Complementary Components to Complete the System

### System Models

#### IRM-8150

Sapphire transmitter/microphone with Lithium battery (IRT-60), Plug-in battery charger (BRC-15) and choice of Speaker Package

#### IRM-8650

Sapphire transmitter/microphone with Lithium battery (IRT-60), Handheld transmitter/microphone with Duracell NiMH batteries (IRH-35) Drop-in battery charger (BRC-60) and choice of Speaker Package

#### IRM-8655

Two Sapphire transmitter/microphone with Lithium battery (IRT-60), Drop-in battery charger (BRC-60) and choice of Speaker Package

## Amplifier/Receiver Features

- Four Power Amplifiers: Total 100 watts RMS, 25 watt ea. Digital Hybrid Class D amplifier
- Two IR wireless microphone receivers
- Page Pass-through with muting, sensitivity control (25, 75, 100 volt)
- Four Line inputs for DVD, Computer, Aux and MP3
- Switchable computer anti hum circuit
- Aux input (Microphone or Line level)
- Front Panel laptop or MP3 player input (3.5mm)
- Front Panel lesson capture output for recording (3.5mm)
- Rear Panel output for ALS with gain control (3.5mm)
- Five band equalizer:  $\pm 12$ dB
- Powers up to eight (8) speakers
- Power sleep mode feature to conserve energy

## Either Ceiling or Wall-Mount Speakers Included

Ceiling Mount Speakers with Tile Bridge Model: SP-628



Full range speaker with a 6.5" woofer and a high frequency dome tweeter for wide dispersion of critical "consonant" frequencies. Speaker is enclosed in a sealed metal backcan with plenum rating.

Wall-Mount Speaker with Bracket Model: SP-2000



Two-way speaker with a 5" woofer and a high frequency mylar dome tweeter housed in a port tuned enclosure. Extended bass response for full rich sound.

## Optional Easy Installation Speaker

Lay-in Panel Speaker with Full Range Speaker Model: SP-628L



Same SP-628 speaker mounted on a quarter ceiling panel with T-bar attached for labor saving installation. Heavy duty, powder coated for buzz free performance. (Option: additional cost)

## Spectrum III Systems Components and Accessories



Base Station



Choice of Transmitters



Drop-In Charger



Ceiling Sensor



Ceiling or Wall Speaker



All IR Components feature a 5 Year Limited Warranty



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