MATRIX wireless classroom microphone system



The Matrix is our answer to the need for a low cost, plenum application, high performance sound-field system that allows for remote adjustment of inputs via RS-232 wall panel controller. And easy wireless connection of a **Bluetooth** device (such as a Smartphone). A powerful 50 watt Digital Hybrid Class D amplifier, with bass/treble equalization, infrared receivers provide freedom of movement and allow simultaneous use of two microphones. Two auxiliary inputs provide multi-media integration with even distribution of sound for all audio in the classroom. It has a Line level output for Lesson Capture or ALS (Assistive Listening System).

The Sapphire (IRT-60) transmitter delivers several key features such as; Security Alert circuit which is activated by holding down a button for 5 seconds on transmitter, and Teacher Voice Priority which instantly attenuates line inputs.

The Voice is a teacher's most powerful teaching tool, but it needs to be protected. Properly using a classroom sound-field system allows the teacher to speak more comfortably, be heard more precisely and prevent vocal strain. 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.

(IRT-60)
Microphone Transmitter
Security Alert
Teacher Priority

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

Security Alert button notifies office of problem in classroom.

Teacher Priority instantly attenuates all line inputs



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Front View



Rear View

All Matrix Systems Include

- Matrix Receiver/Amplifier IMA-120
- 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
 - SP-628L c. Lay-In Panel Speaker
 - all with 100' of plenum rated cable
- Wall remote control panel (wired) CPS-120

Complementary Components to Complete the System

System Models

IRP-1150

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

IRP-1650

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

IRP-1655

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

Matrix Systems Components and Accessories



Base Station



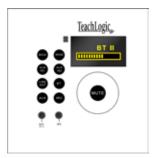


Choice of Transmitters

Amplifier/Receiver Features

- Two infrared wireless Microphone receivers
- 50 watt digital Power Amplifier: 25 watts ea. channel
- Two stereo auxiliary inputs for DVD & Computer/Aux
- Digital Feedback Guard (DFG)
- Security Alert Output
- RS-232 wall panel controls
- Remote Teacher Priority feature (over line inputs)
- Bass/Treble digital equalizer ± 12dB
- Digital Limiting
- Two auxiliary line inputs on amplifier (3.5mm)
- One auxiliary line input on wall panel (3.5mm)
- One line output for Lesson Capture or ALS (3.5mm)
- Wired wall remote control panel

Wall mounted remote control panel (wired)



This panel allows not only for easy wireless connection of a Bluetooth device (such as a Smartphone) with the classroom sound system, but also for remote adjustment of inputs via this RS-232 wall panel controller. The wall controller comes preprogrammed and does not require any additional code setup.

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)







Ceiling Sensor Ceiling or Wall Speaker





