

Product Specifications

classroom amplification systems

Which system fits your needs?

Symbio

Infrared classroom system



Pro Digital

Infrared classroom system



ToGo

Portable FM system



Upgrade to Voice Amplification Existing Amplifier and Speakers Required	Yes	No	No
Installed Voice and Multimedia Amplification			
Integration Inputs	1 (through mic)	3 - 7	1
Separate Volume Control for Inputs	N/A	Yes	Yes
Podcast Outputs	No	1	1
Number of Systems per School	Unlimited	Unlimited	16*
Feedback Suppression	No	Yes	No
One-touch Operation	No	Yes	No
Stereo Sound	No	Yes	No
Installation-Free & Portable Voice Amplification			
Indoor Use	Yes	Yes	Yes
Outdoor Use (not weatherproof)	No	No	Yes
Integrated DuO Speakers	No	No	Yes
Battery Power Option	No	No	Yes
Installation-free	No	No	Yes
Carry Case Available	N/A	N/A	Yes
Features			
Energy Smart	Yes	Yes	No
OptiVoice Speech Clarification	No	Yes	Yes
Lead Free/RoHS Compliance	Yes	Yes	Yes
SmartCharge Fail Safe Battery System	Yes	Yes	Yes
Microphone Channels	2	2	2
External Sensor Inputs	3	3	N/A
Optional Student Microphone	Yes	Yes	Yes
Transmission Technology	Infrared	Infrared	FM
Platform	Analog	Digital	Analog
Warranty	5 Year	5 Year	5 Year

Technology for student achievement



An ENERGY STAR® partner. The environmental choice provides energy savings without compromising quality or performance.



Adapto Digital Platform. Faster than the speed of thought — a blistering 500 times per second on the VC5502™ processor by TEXAS INSTRUMENTS — the ADAPTO platform automatically adjusts sound quality, power usage, and other complex details. ADAPTO adapts so teachers can teach.



OptiVoice™ clarity. A powerful tool for test-taking, directions, and ELL instruction. Fragile consonant sounds carry about 75% of the meaning in speech but are easily destroyed by background noise. OPTIVOICE strengthens these critical sounds, doing the work of a 12-band equalizer with a single switch.



Save money (and maybe the planet). FrontRow products use significantly less energy — up to 63% less — than other systems. They're a smart choice for schools and the environment.

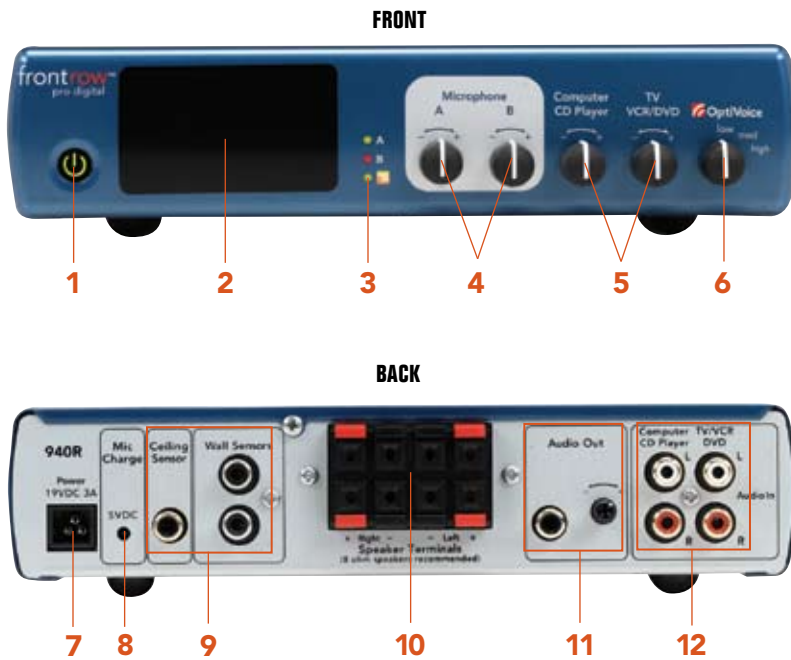


SmartCharge™ peace of mind. The greatest killer of electronics is accidental recharging of alkaline batteries. SMARTCHARGE technology only charges batteries that are safe to charge — protecting your investment for years to come.



Earth-friendly design. FrontRow's design and manufacturing practices keep lead, mercury, PBDE and other toxins out of its products — and out of the environment.

PRO DIGITAL 940R RECEIVER/AMPLIFIER



SPECIFICATIONS

- Transmission type:** Infrared
- Receiving frequency:** 2.3MHz & 2.8MHz
- Frequency response:** 50Hz to 20kHz
- Signal-to-noise:** >65dB (system)
- TDH:** <1% @ 1kHz into 8Ω
- Maximum audio output power:** 2 x 10w (8Ω), 2 x 20w (4Ω)
- Power supply:** 19VAC at 3.16A
- Size (wxhxd):** 21.5 x 4.75 x 19cm/8.5 x 1.75 x 7.5in
- Weight:** .94kg/2.11lbs
- Operating range:** 18.5m/60ft line-of-sight (typical)
- Reception area:** 163m²/1225ft² (typical)

User controls:

- Power
- Microphone A volume
- Microphone B volume
- Two auxiliary audio volume
- OPTIVOICE™

Inputs/outputs:

- Input power jack
- 1.3mm mic charge jack
- 3 RCA jacks for external sensor connection
- 4 quick-connect speaker terminals
- RCA aux out jack
- 2 RCA stereo aux in jacks (with stereo sound output)

1 one-touch operation

Teachers need only turn on the mic to start teaching. The receiver automatically wakes up from its energy-saving sleep mode and goes to sleep when the mic is turned off.

2 talk without dropout

Three built-in sensors with advanced optics ensure consistent signal pick-up

3 feedback suppression

The ADAPTO light reassures you it is automatically suppressing feedback – before it starts

4 two channels for more dynamic teaching

Encourage student participation with a pass-around mic; or amplify two teachers at the same time

5 easy audio control

Quickly and easily adjust the volume level of streaming audio and video content, CDs and MP3 files

6 optimize speech clarity

OPTIVOICE (patent pending) is specially designed to emphasize critical speech sounds, so kids comprehend even more

7 power jack

8 easy recharging

Up to two transmitters can be charged directly from the receiver

9 external sensor ports

Get great signal pickup in almost any classroom with convenient ceilings or wall sensors

10 simple speaker hook-up

Color-coded stereo push terminals make speaker connection quick and easy

11 auxiliary output and volume control

Connect to computer to record all audio content for podcasting, or connect personal FM systems for the hearing impaired

12 complete tech integration

Easily connect a computer or other technology to integrate true stereo audio into lessons

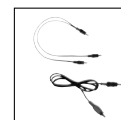
940R ACCESSORIES



receiver power supply



AC power cord (for power supply)



transmitter charge cord aux-out cord



RCA/RCA Aux-in cord
RCA/3.5mm Aux-in cord



receiver wall mount

SYMBIO 5201R RECEIVER

FRONT



BACK



1 power switch

2 two channels for more dynamic teaching

Encourage student participation with a pass-around mic; or amplify two teachers at the same time

3 microphone indicator lights

Offer clear visual confirmation of signal reception

4 power on, ready light

5 external sensor ports

Get great signal pickup in almost any classroom with convenient ceiling or wall sensors

6 audio out jack

High quality 1/4in jack for connection to practically any standard amplifier

7 mic/line switch

Match your amplifier's level requirements instantly

8 DC input



Powered by an ENERGY STAR® certified adapter for a better environment.

SPECIFICATIONS

Transmission type: Infrared

Receiving frequency: 2.3MHz & 2.8MHz

Frequency response: 50Hz to 10kHz

Signal to Noise: > 65dB (system)

THD: < 1% @ 1kHz

Power Supply: 12V @ 500mA

Size (wxhxd): 14 x 4 x 19.25 cm/5.5 x 1.62 x 7.75 in

Weight: 766g/1.7lbs.

Mic level out: 0V to 100mVrms at maximum volume & maximum deviation (typical)

Line level out: 0V to 1Vrms at maximum volume & maximum deviation (typical)

User controls:

- Power
- Microphone A volume
- Microphone B volume
- Output level

Inputs/outputs:

- Input power jack
- 3 RCA jacks for external sensor connection
- 1/4in audio out jack

5201R ACCESSORIES



receiver power supply

940TM TRANSMITTER/MICROPHONE



1 totally wireless

Combination transmitter/microphone design eliminates the need for any cords

2 amazing sound quality

Patented dual-mic system ensures natural sound quality

3 maximum comfort

Efficient single-cell battery design is 25-40% lighter than competitor models

4 a/b channel selector

Conveniently switch between microphone channels

5 portable audio interface

A 3.5mm auxiliary input jack lets you use the transmitter/microphone to transmit audio from any secondary source, such as a TV, DVD, CD, computer, or MP3 player

6 audio mute switch

A convenient mute switch allows for private conversations

7 auxiliary microphone input

For teachers who prefer boom mics

8 smart charge security

SMARTCHARGE technology protects against charging incompatible batteries. Alkaline batteries may be used in an emergency, but the microphone will only charge the "silver-sleeve", auto-sensing battery that comes with your microphone.

9 4-way indicator light

10 on/off switch



SPECIFICATIONS

Transmission type: Infrared

Transmitting frequency: 2.3MHz & 2.8MHz (switchable)

Microphones: dual uni-directional cardioid

Battery life: minimum 8 hours

Battery type: single AA, 2500mAh rechargeable NiMH

Operating range: 18.5m/60ft line-of-sight (typical)

Size (wxhxd): 11 x 6 x 2.5 cm/4.5 x 2.5 x 0.9 in

Weight: 85g/3.0oz (with battery)

User controls:

- On/off
- mute
- channel A/B

Inputs/outputs:

- 2.5mm mic input
- 3.5mm aux input
- 1.3mm DC charge jack

940TM ACCESSORIES



SMARTCHARGE NiMH rechargeable battery



aux-in cable



boom mic

950H PASS-AROUND MICROPHONE AND DROP-IN CHARGER



950H MICROPHONE

1 fits kids' small hands

Less than 15cm/6in tall, this durable kid-sized mic is much easier for students to use

2 comfortable hands-free option

Easy, comfortable lavalier clip makes reading in front of class simple and lets the 950H double as a very lightweight teacher mic

3 3-way indicator light

4 on/off switch

5 smart charge security

SMARTCHARGE technology protects against charging incompatible batteries. Alkaline batteries may be used in an emergency, but the microphone will only charge the "silver-sleeve", auto-sensing battery that comes with your microphone.

6 a/b channel and mic gain selectors

(inside battery compartment)

7 name plate

8 optional charge input jack

9 portable audio interface

A 3.5mm auxiliary input jack lets you use the transmitter/microphone to transmit audio from any secondary source, such as a TV, DVD, CD, computer, or MP3 player

950C CHARGER

10 energy efficient drop-in charging

Charges both the 940TM and 950H microphones neatly and securely. Powered by an ENERGY STAR® qualified battery charger.

11 3-way charging indicator lights



Powered by an ENERGY STAR qualified battery charger for a better environment



SPECIFICATIONS

Transmission type: infrared

Transmitting frequency: 2.3MHz & 2.8MHz (switchable)

Battery type: single AA, 2500mAh rechargeable NiMH

Battery life: minimum 5 hours

Operating range: 12.2m/40ft, line of sight (typical)

Size (wxhxd) (mic): 14.6 x 2.8 x 3.5 cm/5.7 x 1.1 x 1.4 in

Weight (mic): 74g/2.6oz (with battery)

User controls (mic):

- On/off
- Channel A/B
- Mic gain – 3 settings

Inputs/outputs (mic):

- 3.5mm aux input, stereo summing
- 1.3mm DC charge jack

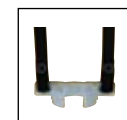
950H ACCESSORIES



SMARTCHARGE NiMH rechargeable battery

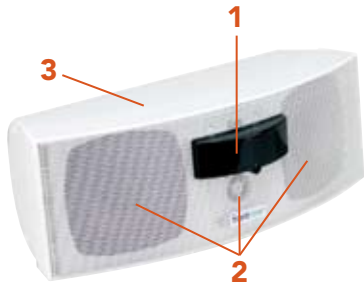


charger power supply



lavalier clip

IR SPEAKER



1 integrated sensor

Provides extremely robust IR coverage throughout the classroom

2 two 4" woofers, one 1" tweeter

Each cluster gives full range sound quality and twice the coverage of a single speaker

3 cut installation time in half

Install only two IR speakers per classroom – same coverage as four speakers and two sensors with half the labor



SPEAKER SPECIFICATIONS

Speaker type: Two 10cm/4in woofers; 2.5cm/1in tweeter

Impedance: 4Ω nominal

Continuous power: 20W

Peak power: 30W

Frequency response: 150Hz to 20kHz

Dimensions (wxhxd): 355x130x230mm/14 x 5 x 9in

Weight: 3.4kg / 7.5lbs

Mounting: Wall mounting brackets provided

Combo cable incorporates:

Speaker wire: 18 AWG 2 conductor UL listed CL3P Plenum-rated

Sensor wire: 15.25m/50ft RG58/u coaxial cable CL3P shielded, UL listed Plenum rated jacket available



SENSOR SPECIFICATIONS

Operating frequency: 2.3MHz & 2.8MHz

Operating range: 18.5m/60ft line-of-sight (typical)

Signal/Power interface: RCA female jack

Number of IR photodiodes: 3

Power indicator LED: Green

Reception area: 2500ft² (typical with receiver sensors)

DISTRIBUTED CEILING SPEAKER (REQUIRES SEPARATE SENSORS)



- Full range for faithful reproduction of voice and music
- Great sound coverage
- Separate UL listed back enclosure prevents sound from traveling to other classrooms
- Mounts flush with ceiling for neat installation



SPECIFICATIONS

Speaker type: coaxial: 10cm/6.5in woofer, 2.5cm/1in tweeter

Impedance: 8Ω nominal

Continuous power: 30W

Peak power: 45W

Frequency response: 60Hz to 20kHz

Dimensions (Dia x d): 21.7 x 7 cm / 8.5 x 2.75 in

Weight: 1.1kg/2.5lbs

Mounting: UL listed metal tile bridge, UL listed steel back enclosure

Speaker wire: 18 AWG 2 conductor UL listed CL3P Plenum-rated

SENSORS (NOT NEEDED WITH IR SPEAKER)

CEILING SENSOR



- Easy-to-install bracket allows quick and easy installation
- LED power indicator lets you know when unit is connected properly
- 360 degree 'full-sweep' signal coverage helps prevent signal dropout



SPECIFICATIONS

Operating frequency: 2.3MHz & 2.8MHz

Operating range: 18.5m/60ft line-of-sight (typical)

Signal/Power interface: RCA-female jack, 8" lead

Number of IR photodiodes: 6

Power indicator LED: Green

Reception area: 232m²/2500ft² (typical with receiver sensors)

Dimensions (Dia x h): 13.5 x 3.3 cm / 5.1 x 1.3 in

Weight: 224g/7.9oz (with bracket)

Mounting: Drop ceiling acoustic tile or sheetrock ceiling

Sensor wire: 15.25m/50ft RG58/u coaxial cable CL2P shielded, UL listed Plenum rated jacket available

WALL SENSOR



- Easy-to-install bracket allows proper angling for optimum room coverage
- LED power indicator lets you know when unit is connected properly
- Great for covering rooms with high ceilings, hanging student art, projector mounts, or other challenging obstructions



SPECIFICATIONS

Operating frequency: 2.3MHz & 2.8MHz

Operating range: 18.5m/60ft line-of-sight (typical)

Signal/Power interface: RCA-female jack

Number of IR photodiodes: 2

Power indicator LED: Green

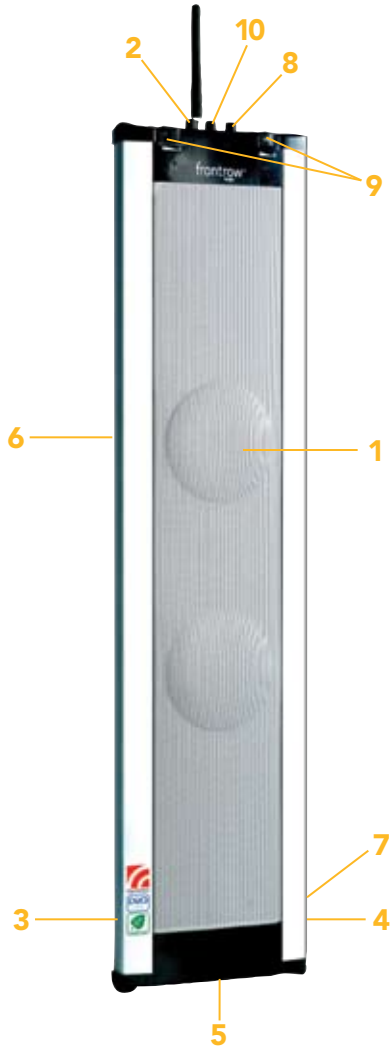
Dimensions (wxhxd): 7.9 x 5.1 x 3.0 cm / 3.1 x 2.0 x 1.2 in

Weight: 82g/2.9oz

Mounting: Wall mount bracket provided

Sensor wire: Two 15.25m/50ft RG58/u coaxial cables CL2P shielded, UL listed Plenum rated jacket available

TOGO 925RS COMBINATION RECEIVER/SPEAKER ARRAY



1 room-filling sound quality in a single unit

The precision-mounted two-speaker line array reinforces and spreads more sound energy throughout the listening zone, making it the only all-in-one sound system able to cover an entire classroom.

2 optimize speech clarity

The simple 3-position OptiVoice switch controls a sophisticated 12-band equalizer, pre-programmed to optimize speech clarity by emphasizing speech frequencies most critical to comprehension

3 power cable socket

4 on/off power switch

5 table stand attachment

6 integrated handle for transport

7 built in battery for outdoor amplification

8 auxiliary audio input for computer, MP3 players

9 two channels for more dynamic teaching

10 auxiliary output

SPECIFICATIONS

Transmission type: FM (F3E)

Receiving frequency: 216.025 - 216.875 MHz

Frequency response: 100Hz-9kHz (at rated output)

TDH:<1% (at rated output) @ 1kHz

Signal-to-noise: >70db at rated output (system)

Maximum audio output power: Maximum 36W RMS @ 4Ω x 2

Power supply: AC 110-200V ~50-60Hz, 1A max

Battery: NiMH rechargeable

Battery life: 6.5 hours (rechargeable)

Recharging time: 8 hours

Input: 1 x aux-in, 3.5mm mono

Output: 1 x aux-out, 3.5mm mono

User controls:

- Channel A/B on/off/volume
- Channel A/B channel selector
- aux-in volume
- aux-out volume
- OptiVoice
- main power

Size (wxdxh): 183 x 85 x 750 mm / 7.2 x 3.4 x 29.5 in

Weight: 5.7kg / 12.5lbs.

925RS ACCESSORIES



Power cord
300-7402-110



Antenna
AT0831



Wall bracket kit
890-88-322-00



Table stand
890-88-320-00



Cable kit
392-88-108-00



Carry bag
895-88-025-00

Channel#	Channel A	Channel#	Channel B
41	216.025 MHz	51	215.525 MHz
42	216.075 MHz	52	215.575 MHz
43	216.125 MHz	53	215.625 MHz
44	216.175 MHz	54	215.675 MHz
45	216.225 MHz	55	215.725 MHz
46	216.275 MHz	56	215.775 MHz
47	216.325 MHz	57	215.825 MHz
48	216.375 MHz	58	215.875 MHz

TOGO 925C CHARGING STAND



- 1 convenient drop-in charging
- 2 3-way indicator lights



SPECIFICATIONS

Power supply: AC adaptor (DC 12V / 0.5A)

Recharging time: NiMH (1600mA), 6 hours

Size (wxhxd): 230 x 47 x 135 mm / 9 x 1.9 x 5.3 in

Weight: 360g/12.7oz

TOGO 925T BODY-WORN TRANSMITTER

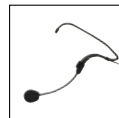


- 1 **your choice of mics**
Connect wind-resistant boom or earhook mics or inconspicuous lapel mics
- 2 **easy to locate on/off/standby switch**
- 3 **2-way indicator light**
- 4 **belt clip**
- 5 **channel selector**

925T ACCESSORIES



NiMH rechargeable battery AT0807



boom mic



SPECIFICATIONS

Carrier frequency range: 216.025 - 216.875 MHz

Modulation: FM (F3E)

Operating range: > 34m / 110ft

RF output: <15mW

TDH: <0.5%

Dynamic range: 100dB

Size (wxhxd): 65 x 90 x 25 mm / 2.5 x 3.5 x 1 in

Weight: 51g / 1.8oz

Controls: on/mute/off/channel selector

Input/output: 2.5mm microphone input jack

Battery type: 2 AA NiMH rechargeable (1600mA) or 2 AA alkaline disposable

Battery life: NiMH rechargeable typically 12 hours, disposable alkaline typically 15 hours

Recharging time: 6 hours

TOGO 925H HANDHELD MICROPHONE/TRANSMITTER



- 1 **2-way indicator light**
- 2 **on/off switch**
- 3 **channel selector**

925H ACCESSORY



NiMH rechargeable battery AT0807



SPECIFICATIONS

Carrier frequency range: 216.025 - 216.875 MHz

Modulation: FM (F3E)

Operating range: > 34m / 110ft

RF output: <15mW

TDH: <0.5%

Dynamic range: 100dB

Dimensions (dia x h): 54 x 237mm / 2.1 x 9.3 in

Weight: 230g / 8.1 oz

Controls: on/mute/off/channel selector

Battery type: 2 AA NiMH rechargeable (1600mA) or 2 AA alkaline disposable

Battery life: 12 hours (rechargeable), 15 hours (alkaline)

Recharging time: 6 hours

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