ITR-01 JUNO TOWER RECEIVER

FRONT

BACK

LEFT SIDE

SPECIFICATIONS

Transmission type: Infrared

Receiving frequencies: 2.1MHz, 2.4MHz; (2.8MHz, 3.3MHz, 3.6MHz with Channel Expansion Module)

Frequency response: 50Hz – 20kHz

Signal-to-noise: >70dB

THD: <1% @ 1kHz

Maximum audio output power: 40W, peak program

Power supply: 18VDC @ 3.3AMP

Size (wxhxd):
Tower without base: 19.7 x 68.6 x 16.5cm/ 7.75 x 27 x 6.5in
Tower with base: 35.6 x 71.8 x 26.7cm/ 14 x 28.25 x 10.5in

Weight:
Tower without base: 5.7kg/12.5lbs
Tower with base: 6.4kg/14lbs

Operating range: 18.3m/60ft, line of sight (typical)

**Reception area:** 274m²/900f² (typical)

USER CONTROLS

- Power
- Master volume
- Microphone volume (5)
- Auxiliary audio volume (4)
- Audio out volume
- Tower settings

INPUTS/OUTPUTS

- Input power jack
- (2) RCA jacks for external sensor connection
- 3.5mm audio out jack
- (3) RCA stereo audio in jacks (with stereo sound output)
- (1) 3.5mm stereo audio in jack (with stereo sound output)
- (2) serial microphone charging/ programming jacks
- (1) serial communications port

ITR-01 ACCESSORIES
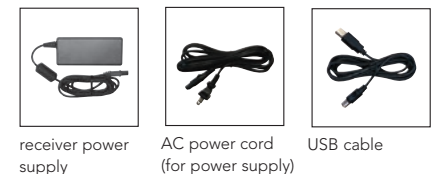
receiver power supply

AC power cord (for power supply)

USB cable

Teacher Edition Software (Windows or Mac OS)

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1 Integrated Sensor
Integrated high sensitivity infrared diode array.

2 Digital, 3 Speaker 2.1 Array
Two mid-range HF drivers and one woofer provide full, rich stereo sound.

3 LCD touch screen
Lockable full-color touch screen control.

4 Stereo Quick Connect
Easily and quickly connect an MP3 player or other audio device.

5 Table/desk Stand
Sturdy desk stand is easily removed for wall mounting.

6 Additional Sensor Ports
Two ports for additional sensors.

7 Channel Expansion Module Bay
Add the optional Channel Expansion Module to use up to five microphones with the Juno Tower.

8 100mm VESA Wall Mount Screw Taps

9 Transmitter/USB Cable Hook
Hang your transmitters while charging from the tower. When not charging, the USB cable hangs from the center of the hook.

10 Speaker Expansion Module Bay
Optional module for adding extra speakers for expanded audio coverage.

11 Juno Connect™ Module Bay
Optional module for adding software and voice control of AV devices plus, in conjunction with Conductor, two-way communication between classroom and front office.

12 Page Override Module Bay
The optional module mutes all audio whenever an announcement is made over the school's public address system.

13 Power Jack

14 Power Switch

15 Easy Grip Handle
Integrated ergonomic handle makes carrying or moving the Juno Tower easy.

16 Auxiliary Output
Output with volume control for capturing lectures or to connect personal FM systems.

17 Stereo Inputs for External Audio
Connect other classroom A/V equipment such as a DVD player, television or VCR.

18 Serial Port
Using the included USB cable, connect to a computer running the FrontRow Desktop software application for remote control of the Juno Tower.

19 Integrated Serial Hub
Two ports for charging or programming microphones.

Custom Naming
Name is displayed on the LCD touch screen for easy identification.

Feedback Suppression
The next-generation Adapto™ digital engine actively scans audio 375 times per second to suppress feedback squeal before it starts.

Optimized Speech Clarity
FrontRow's patented OptiVoice™ technology is designed to emphasize critical speech sounds, so kids comprehend even more.

Easy Lesson Capture
The Juno lesson capture system records screen and audio, then automatically titles and prepares the recordings for upload.

Class2Class
Supports distance learning by removing audio echo when using Skype™ and other tools.

Voice Command
Control Juno and other devices, or control recording by speaking simple voice commands into the teacher microphone.

Teacher Priority
PrioriTeach™ gives priority to the teacher microphone by reducing the volume of all other devices and microphones when the teacher microphone is used.

Advanced Software Control
Volume, 12-band EQ, speaker balancing, and more are controllable via Teacher Edition Software while keeping the daily user interface neat and simple.
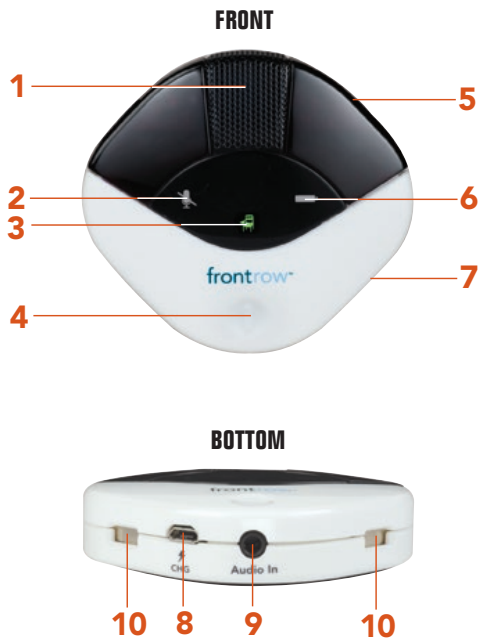
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FRONT

BOTTOM

SPECIFICATIONS

Transmission type: Infrared

Transmitting frequency: 2.1MHz, 2.3MHz 2.4MHz, 2.8MHz, 3.3MHz, 3.6MHz programmable

Frequency response: 70Hz – 8kHz

Microphone: Unidirectional cardioid

Battery life: 7 hours (typical)

Battery type: Li-Ion, 3.7V, 850mAH

Operating range: 18.3m/60ft, line of sight (typical)

Size (wxhxd): 7.4 x 6.6 x 1.3cm/2.9 x 2.6 x 0.5in

Weight: 73.7g/2.6oz (with battery and lanyard)*

USER CONTROLS
• wake/mute/voice command button
• channel select

INPUTS/OUTPUTS
• 3.5mm aux input
• charge/programming jack

Competitor models report weight without lanyard

ITM-01 ACCESSORIES

Li-Ion battery   audio cable   micro USB cable

Teacher Edition Software
(Windows or Mac OS)

1 Amazing Sound Quality
Superb pick up and audio quality thanks to a high-isolation microphone suspension, broad frequency response, and low-distortion direct digital synthesis.

2 Mute Indicator
OFF . . . . Un-muted
SOLID RED. . . . . Muted

3 Power Indicator
SOLID GREEN . . . . .Power On
OFF . . . . Standby

4 One-Touch Button
Controls all of the features of the Pendant Microphone. Use with voice command to activate the Juno lesson capture software and control your Juno Tower.

When the Pendant Microphone is in standby mode:
PRESS MOMENTARILY . . . . .Awaken

When the Pendant Microphone is active:
PRESS MOMENTARILY . . .Mute / Un-mute
PRESS AND HOLD. . . Issue Voice Command

5 Superior Comfort
Lightweight (just 73.7g/2.6oz) with soft backing that provides comfort and reduces friction noise from contact with clothing, buttons or jewelry. Ergonomic lanyard suspension points keep the mic stable and help keep it from swinging away from the body when leaning over to help a student.

6 Battery Indicator
In Use
OFF . . . . Battery Charged
FLASHING RED. . . . . .Battery Low

When Charging
SOLID RED. . . . . .Charging
SOLID GREEN . . . . .Fully Charged

7 Lithium Ion Battery
3-year life expectancy, lightweight and rechargeable.

8 Charging/Programming Jack
For charging via USB cable or for configuring settings.

9 Portable Audio Interface
3.5mm audio input jack for wireless transmission from any secondary audio source such as a computer or MP3 player.

10 Charge Contacts
For use with the optional IMC-01 microphone charger.

Adjustable Power
Factory set to achieve complete coverage in a typical classroom with 7 hours of talk time. Increase talk time or expand coverage for very large rooms with a quick software adjustment.

Programmable Channels
Program the switch positions to 2 of 7 available channels.

Digital Naming
Assign custom names to microphones for easy identification on the Tower LCD and Desktop Software.

Data Transmission
Reports battery status to Desktop Software, visible from an interactive whiteboard.

FRONT

LAVALIERE CLIP

BOTTOM

SPECIFICATIONS

Transmission type: Infrared

Transmitting frequency: 2.1MHz, 2.3MHz 2.4MHz, 2.8MHz, 3.3MHz, 3.6MHz programmable

Frequency response: 70Hz – 8kHz

Microphone: Unidirectional cardioid

Battery life: 7 hours (typical)

Battery type: Li-Ion, 3.7V, 850mAH

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

Size (wxhxd): 3.8 x 14.7 x 2.2cm/1.5 x 5.8 x 0.85in

Weight: 70.8g/2.5oz

USER CONTROLS
- on/off
- push-to-talk
- channel select

INPUTS/OUTPUTS
- 3.5mm aux input
- Charge/programming jack

1 Amazing Sound Quality
Superb pick up and audio quality thanks to a high-isolation microphone suspension, broad frequency response, and low-distortion direct digital synthesis.

2 360˚ Emitter Diodes
Lets students hold the Pass-Around Microphone the way it's most comfortable for them without worry of dropout.

3 Power Indicator
SOLID GREEN. . . . . .Power On
OFF. . . . . .Power Off

4 Battery Indicator
In Use
OFF. . . . . .Battery Charged
FLASHING RED . . . . .Battery Low

When Charging
SOLID RED . . . . Charging
SOLID GREEN. . . . . Fully Charged

5 Small and Lightweight
At less than 15cm/6in tall and just 2.5 oz, the microphone is much easier for students to use.

6 Power/Push-to-talk Switch
PRESS AND HOLD . . . . .Push-to-talk
PRESS AND SLIDE UP . . . . . . .Power On

7 Name Plate
For adding a name or room number for easy identification.

8 Lithium Ion Battery
3-year life expectancy, lightweight and rechargeable.

9 Charging/Programming Jack
For charging via USB cable or for configuring settings.

10 Portable Audio Interface
3.5mm audio input jack for wireless transmission from any secondary audio source such as a computer or MP3 player.

11 Charge Contacts
For use with the optional IMC-01 microphone charger.

12 Comfortable Hands Free Option
Easy, comfortable lavaliere clip makes reading in front of class simple and lets the Pass-Around Microphone double as a lightweight teacher microphone.

Adjustable Power
Factory set to achieve complete coverage in a typical classroom with 7 hours of talk time. Increase talk time or expand coverage for very large rooms with a quick software adjustment.

Programmable Channels
Program the switch positions to 2 of 7 available channels.

Digital Naming
Assign custom names to microphones for easy identification on the Tower LCD or in the optional FrontRow Desktop Software.

ISM-01 ACCESSORIES

Li-Ion battery

micro USB cable

lavaliere clip

Teacher Edition Software (Windows or Mac OS)

FRONT

BACK

SPECIFICATIONS

Size (wxhxd): 8.9 x 4.6 x 11.4cm/3.5 x 1.8 x 4.5in

Weight: 226.7g/8oz

Power supply: 5.9V dc

IMC-01 ACCESSORIES

power supply

1 Charging pockets
Both charging pockets can be used to charge either the Juno Pendant Microphone or Pass-Around Microphone

2 Power jack

JUNO CONNECT™ COMMUNICATION MODULE
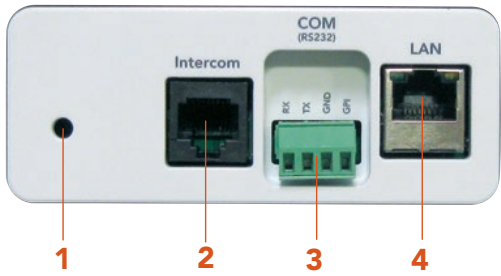
1 Onboard Microphone
Communicate with front office even without the Juno mic

2 Intercom Input (optional)
Connect the CB75 intercom panel ceiling mic for communication with front office when push-to-talk is required (can also be used with CB85)

3 Serial Control
Send RS232 commands to serial projectors and other AV devices via voice or Teacher Edition Software

4 Network Connection
Sends commands to IP addressable devices via voice or Teacher Edition Software. Connect to front office via Conductor software. Communicates over standard 10/100Mb/s networks (auto sensing) using either TCP/IP or UDP protocols.

5 Display Shows Active Page or Intercomm Call

6 Clearer, Easier Communication with Front Office
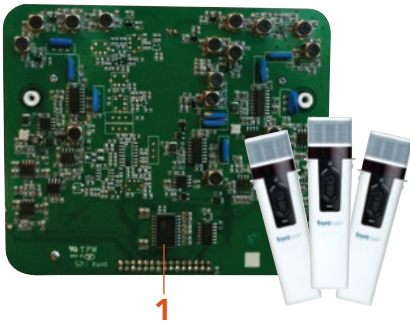Use the Juno microphone to call the office; hear higher quality paging and intercom audio through the tower

SPECIFICATIONS

Network Support: 10/100 Mb/s (Auto Sensing)
Baud Rate: 2400 – 115,000 baud

CHANNEL EXPANSION MODULE

1 Three additional IR channels
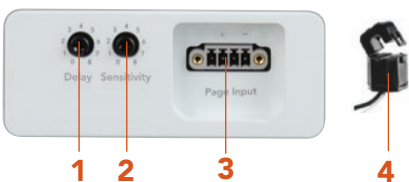Add up to 3 additional microphones (total of 5)

SPECIFICATIONS

Receive Frequencies: 2.8MHz, 3.3MHz, 3.6MHz
Signal-to-noise: >70dB
THD: <1% @ 1kHz

PAGE OVERRIDE MODULE (FOR ANALOG PAGING SYSTEMS)

1 Time Delay Control

2 Sensitivity Control

3 Captive Screw Terminal

4 Inductive Coupler

SPECIFICATIONS

P.A. Input: Captive screw terminal magnetic coupling
Sensitivity: 70mVrms (minimum)
Delay: <500mSec to >5Sec

SPEAKER EXPANSION MODULE

1 Captive Screw Terminal

SPECIFICATIONS

Frequency response: 50Hz – 20kHz
THD: <1%
Maximum audio output power: 2 x 8w (8Ω), 2 x 16w (4Ω)

Windows

Mac OS

SPECIFICATIONS

Recording types: Screen and audio, screen only, audio only

File format: mp4, m4a

Recording length: Unlimited

SYSTEM REQUIREMENTS

Windows

- Windows XP SP3, Windows Vista, Windows 7, Windows 8
- 2GHz Processor or faster
- 1 GB of RAM
- 90 MB of hard disk space for the application (recordings will require additional hard disk space)

Mac OS

- Mac OSX - 10.6 (Snow Leopard) or later
- 64-bit Processor (Core 2 Duo or later)
- 150 MB of hard disk space for the application (recordings will require additional hard disk space)

Lesson Capture

Teacher Edition Capture is the basic version of Teacher Edition. It makes lesson capture and sharing effortless so students are always prepared. Records screen and audio, then automatically titles the recording based on instructor's schedule and saves it to a pre-determined location. Teacher Edition is available with any FrontRow classroom audio system including Juno, Pro Digital, and ezRoom.
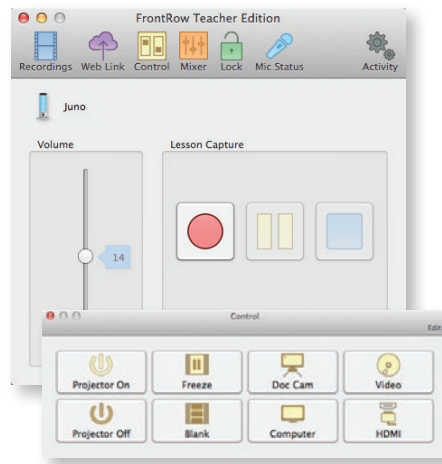
AV Control

Teacher Edition Control is a plug-in for Teacher Edition for use with ezRoom or Juno Connect. Teacher Edition Control enables teachers to control projector, audio setup, and lesson capture within the same application. Program up to eight buttons to turn display on and off, change input sources and more.

Juno Control

When used with a Juno system, Teacher Edition also makes controlling Juno settings easy. Control volume and other audio settings right from the desktop.