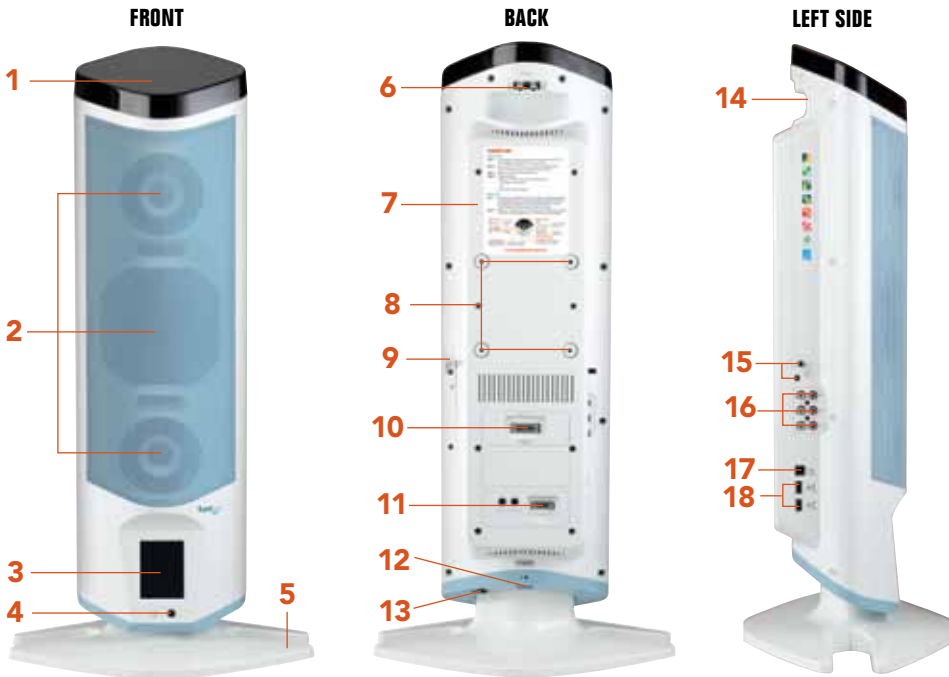


ITR-01 JUNO TOWER RECEIVER



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



Desktop Software

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 Page Override Module Bay

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

12 Power Jack

13 Power Switch

14 Easy Grip Handle

Integrated ergonomic handle makes carrying or moving the Juno Tower easy.

15 Auxiliary Output

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

16 Stereo Inputs for External Audio

Connect other classroom A/V equipment such as a DVD player, television or VCR.

17 Serial Port

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

18 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 important functions 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 Desktop Software while keeping the daily user interface neat and simple.



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

- 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.

ITM-01 ACCESSORIES



Desktop Software

ISM-01 JUNO PASS-AROUND MICROPHONE



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 lavalier 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.



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

ISM-01 ACCESSORIES



Li-Ion battery



micro USB cable



lavalier clip



Desktop Software



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

IMC-01 JUNO PENDANT AND PASS-AROUND MICROPHONE CHARGER



1 Charging pockets

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

2 Power jack

FRONTROW DESKTOP SOFTWARE



SPECIFICATIONS

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

File format: mp4, m4a

Recording length: Unlimited

SYSTEM REQUIREMENTS

- Windows XP SP3, Windows Vista SP2, Windows 7
- 2GHz Processor or faster
- 1 GB of RAM
- 90 MB of hard disk space for the application (recordings will require additional hard disk space)

Juno Lesson Capture

Using simple voice commands, Juno and the lesson capture software record screen and audio then automatically title based on instructor's schedule and prepare recordings for upload.

Volume Control

Control the master mix volume of all devices at once or individually control the volume of any mic or auxiliary audio device.

12-band Equalizer

OptiVoice Settings

Improve intelligibility in settings with high background noise.

Voice Command Settings

Choose the channel and tolerance setting for voice commands

PrioriTeach Settings

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

Microphone Power Adjustment

Adjust the power of the microphones to either increase battery life or range.

Class2Class

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

Custom Microphone and Audio Device Naming

Assign names to the microphones and connected audio devices allowing quick and easy identification when you need to change the volume from the Tower LCD.

Microphone Channel Programming

Program the Pendant or Pass-Around Microphones to one of 7 unique channels available with the Juno Tower or to legacy channels for use with Pro Digital, Lasso or Symbio

Firmware Updates

Update the Juno microphones or tower with improved functionality or enhancements.

JUNO EXPANSION MODULES (FOR JUNO ONLY)

CHANNEL EXPANSION MODULE



1 Three additional IR channels

Add up to 3 additional microphones (total of 5)



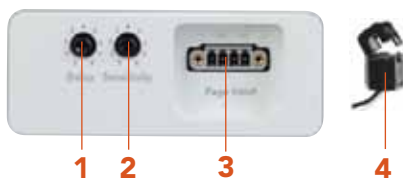
SPECIFICATIONS

Receive Frequencies: 2.8MHz, 3.3MHz, 3.6MHz

Signal-to-noise: >70dB

THD: <1% @ 1kHz

PAGE OVERRIDE MODULE



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)

Product Specifications

learning systems

Which system fits your needs?

Juno

Capture & share content more easily



Pro Digital

Digital voice clarity



Lasso

Analog audio workhorse



ToGo

Portable audio anywhere



Flipped Classrooms & Digital Content				
Automatic Lesson Capture & Sharing	Yes	No	No	No
Class2Class™ Distance Learning Support	Yes	No	No	No
Adapto™ Digital Feedback Suppression	Yes	Yes	No	No
Voice Command	Yes	No	No	No
Installed Amplification (Emphasizing Voice Clarity)				
OptiVoice™ Speech Clarification	Yes	Yes	No	Yes
PrioriTeach™ Teacher Voice Priority	Yes	No	No	No
Integrated Infrared Sensor	Yes	Yes	No	N/A
Installed Amplification (Emphasizing Media Clarity)				
Audio Inputs	4	2	4	1
Speaker Expansion Module	Yes	No	No	No
Rack Mountable	No	No	Yes	No
Audio Output (PFM/Podcasting)	1	1	1	1
Stereo Sound	Yes	Yes	Yes	No
Installation-Free & Portable Voice Amplification				
Indoor Use	Yes	Yes	Yes	Yes
Outdoor Use (not weatherproof)	No	No	No	Yes
Integrated Speaker Line Array	Yes	No	No	Yes
Battery Power Option	No	No	No	Yes
Installation-Free	Yes	No	No	Yes
Carry-Case Available	No	No	No	Yes
Features				
Number of Systems per School	Unlimited	Unlimited	Unlimited	16*
Energy savings	Yes	Yes**	ENERGY STAR®	No
Directly Compatible with	PFM devices (rebroadcast)	Mics used in Lasso, Symbio; PFM devices (rebroadcast)	Mics used in Pro Digital, Symbio; PFM devices (rebroadcast)	PFM devices (direct transmission, rebroadcast)
One-touch Operation	Yes	Yes	Yes	No
Touch-Screen Interface	Yes	No	No	No
Lead Free/RoHS Compliance	Yes	Yes	Yes	Yes
SmartCharge Fail Safe Battery System	N/A (Li-Ion)	Yes	Yes	Yes
Simultaneous Microphone Channels	5	2	2	2
Microphone Channel Choices	7	2	2	16
External Sensor Inputs	2	3	3	N/A
Optional Student Microphone	Yes	Yes	Yes	Yes
Transmission Technology	Infrared	Infrared	Infrared	FM
Platform	Digital	Digital	Analog	Analog
Warranty	5 Years	5 Years	5 Years	5 Years

*More systems possible with channel separation

**ENERGY STAR qualified

LOCATIONS

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629 Nudgee Road
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fax: 1300 746 642
web: www.gofrontrow.com.au

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6950 Creditview Road, Unit 1
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toll-free: 800.340.9894
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fax: 905.677.7760
web: www.gofrontrow.com

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fax: +45 3927 7900
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toll-free fax: 00800 FAX OTICON
web: www.oticon.co.nz

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PC Werth Limited (UK Distributor)
Audiology House
45 Nightingale Lane
London SW12 8SP
tel: 020 8772 2700
web: www.soundfield.info

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2080 Lakeville Highway
Petaluma, CA 94954-6713
toll-free: 800.227.0735
tel: 707.769.1110
fax: 707.769.9624
web: www.gofrontrow.com



TECHNOLOGY FOR STUDENT ACHIEVEMENT



Lesson Capture

Juno Lesson Capture. Using simple voice commands, Juno and the lesson capture software record screen and audio then automatically title and prepare recordings for upload so students can review the video at night.



Class2Class

Class2Class. Using FrontRow with tools like Skype™ and Adobe® Connect™, you can easily set up a real-time audio/video connection between your class and any location – one that's clearly heard by everyone without echo.



PrioriTeach

PrioriTeach. PrioriTeach gives priority to the teacher microphone by reducing the volume of all other devices and microphones when the teacher microphone is used. Control how quickly and to what level the volume is reduced, how quickly the audio resumes, or turn the feature on and off.



VoiceChoice

VoiceChoice. Increase talk time or expand coverage for very large rooms with a quick software adjustment.



Adapto

Adapto Digital Platform. Faster than the speed of thought — a blistering 375 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.



DSP
TEXAS INSTRUMENTS
TECHNOLOGY



SmartCharge

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.



Lead Free

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.



OptiVoice

OptiVoice™ clarity. FrontRow's patented, 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.



Energy Smart

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.




frontrow™
your school. connected.