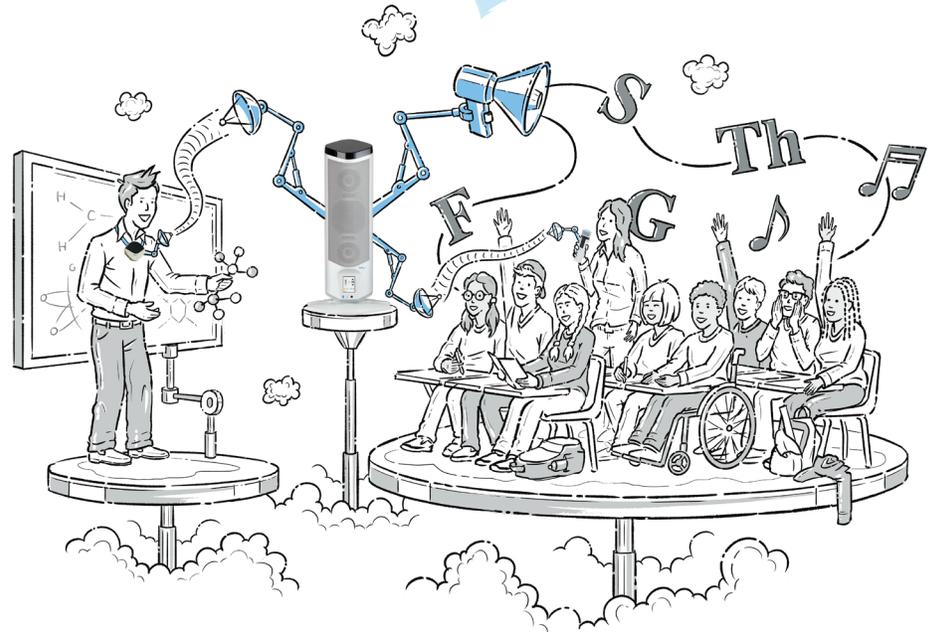




Juno™

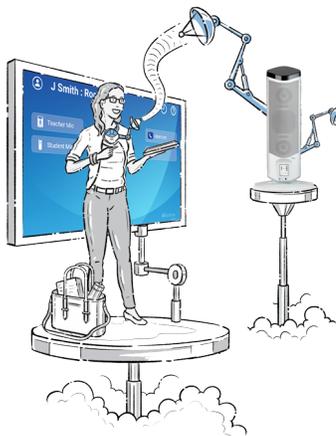
At last, FrontRow's all-new Juno digital communication platform has arrived combining the convenience of a portable audio device with the sound quality and educational benefits of an installed system.

Like magic, Juno's exclusive lesson capture feature records teacher and student voices, media audio, and the computer screen, automatically titles these audio/video clips with the right subject based on the teacher's schedule and helps post them for students to review at night all in a format viewable on personal devices.



Juno Connect™

Installing the Communication Module into the Juno tower turns it into a Juno Connect – a scalable solution that can meet the needs of both your classroom and campus. When used with FrontRow Conductor™, Juno Connect enables campus communication functionality like intercom, paging, bell schedules and alerting. In an emergency, teachers can press and hold on the microphone to initiate an alert to the office.



Paging & Intercom

Teachers can speak directly to the office through their pendant microphone, or through the ambient mic built into the Juno.



Room Control

With Juno Connect on the network and connected to projectors or displays with RS232, teachers can control devices using the MyFrontRow app.

Key Features

- Superior sound coverage that reaches each and every student.
- Simple for teachers to use – which means less training and troubleshooting.
- Provides full integration with interactive whiteboards, mp3 players, laptops, and other multi-media devices.
- Bluetooth-enabled, enriching lesson delivery and content variety. Perfect for expandable learning spaces, creates a stereo high-fidelity sound experience.
- Requires zero installation and is completely portable.
- Makes lesson capture more practical to implement throughout your school.
- Allows for distance learning opportunities where sound is clearly projected throughout the classroom.
- Portability so that when your kids move from class to class each year, they can take Juno with them.
- Up to four student microphones to boost participation, give every child a voice, and ensure students with hearing loss can always hear their peers.
- Easy, seamless connection with any manufacturer's Personal FM system.

Juno Tower

Installation-free, without compromising sound quality Juno's ready-to-use tower brings superior amplification to where students are — today or next year. And because it's a digital multispeaker 2.1 array and not a flat panel point source, Juno meets educational audiologists' need for portability without sacrificing your students' need for excellent sound coverage. An onboard Adapto™ Generation II digital engine actively scans audio 375 times per second to suppress feedback squeal before it starts.

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 power
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	30.5m/100ft, line of sight (typical)
Sound Coverage Area	83.6m / 900ft ² (up to 148.6m ² /1600ft ² with speaker expansion)
IR Reception area	148.6m ² / 1600ft ² (typical)
Inputs	1 wireless Bluetooth 1 3.5mm audio (front) 3 RCA stereo audio in jacks 2 RCA jacks for external sensor connection
Outputs	3.5mm audio out jack



Juno Connect

(Communication Module installed)

Installing the Communication Module into the Juno Tower turns it into a Juno Connect, enabling campus communication for paging, intercom, bells, and alerts with FrontRow Conductor.

Smart-IR Teacher Microphone

More than ever, your students are expected to learn through interactive whiteboards, streaming video, software packages, DVDs, iPods, and other multimedia. Unfortunately, not all classroom audio systems let them hear these essential learning tools. Juno combines multiple audio sources into a single stream, delivers it to the student's PFM system and makes clear recordings available for later review. Fast, proper connection to personal FM And of course, audiologists can quickly and confidently connect.

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	30.4m/100ft, line of sight (typical)
Inputs	3.5mm aux input Micro USB for charging and programming
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

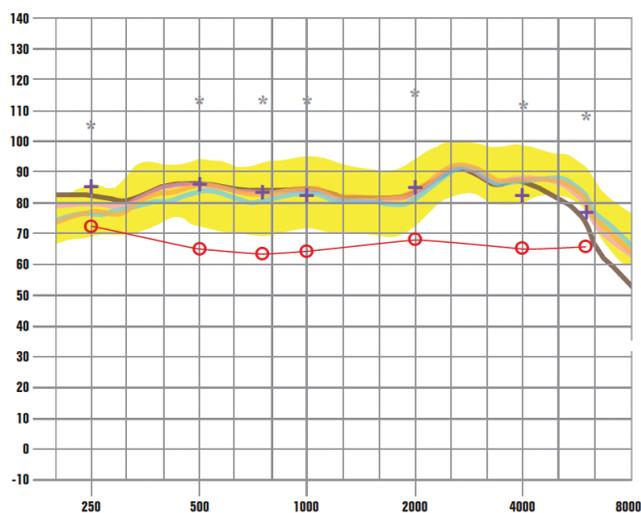
When Pendant Mic is in standby mode:

Press momentarily	Wake
-------------------	------

When Pendant Mic is active:

Press momentarily	Mute/Un-mute
Press and hold	Trigger an alert or call the front office

Speechmap/DSL 5.0a Child



PFM transparency

Juno delivers clean audio to your students' PFM transmitters, giving them access to teacher and student voices, plus multimedia audio.

- Speech envelope
- Threshold
- Oticon Safari Power BTE alone
- Oticon Safari Power BTE plus Oticon Amigo T30/R12 PFM
- Oticon Amigo T30 connected to FrontRow Juno
- Oticon Amigo T5 connected to FrontRow Juno

Accessories

Smart-IR Student Microphone

Better comprehension with up to five simultaneous mics Juno overcomes one of the biggest challenges students with hearing loss face: hearing their classmates. Unlike classroom audio systems that cut off student mics when others start talking, Juno makes all five voices audible essential for smooth participation and natural discussions.

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	21.3m /70ft, line of sight (typical)
Input	3.5mm aux input Micro USB for charging and programming
Size (wxhxd)	3.8 x 14.7 x 2.2cm / 1.5 x 5.8 x 0.85in
Weight	70.8g /2.5oz

PUSH-TO-TALK SWITCH

Press and hold	Push-to-talk
Press and slide up	Power on



Microphone Charger

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



POE Extractor

SPECIFICATIONS

Network support	10/100Mb/s (auto sensing)	
External power supply	18VDC at 3.5A	
Size (wxhxd)	13 x 10.2 x 3.1cm/5.12 x 4 x 1.25in	
Inputs/Outputs	(1) RJ45 network input jack with POE (1) RJ45 network output jack	(1) 2.1mm corded power plug (1) 2.1mm power input jack

MIDSPAN INJECTOR REQUIREMENTS

POE Type	High Power Midspan Injector
POE Standard	POE IEEE 802.3at
Device Pin-out	Pins 4, 5 DC power (+) Pins 7, 8 DC power (-)
POE Protection	Over Temp Over Current Over/Under Voltage
Power	30W per Port



Juno Carry Case

Protects Juno system during transport. Holds tower, power supply, microphones, charger and accessory cables.



Optional Modules for Added Features

Channel Expansion Module

Expands participation by adding three additional microphone channels, so up to five microphones can be used with a single Juno.

SPECIFICATIONS

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



Speaker Expansion Module

Expands speaker coverage by allowing the addition of two external speakers. Requires removal of Bluetooth module.

SPECIFICATIONS

Frequency Response	50Hz – 20kHz
THD	<1%
Maximum audio output power	2x8W (8Ω), 2x16W (4Ω) peak power

INPUT

Captive Screw Terminal



Page Override Module

Ensures important announcements are heard in the classroom by automatically muting Juno.

SPECIFICATIONS

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

INPUTS

Time Delay Control
Sensitivity Control
Captive Screw Terminal
Inductive Coupler



Communication Module

(Included with Juno Connect)

Enables campus communication for paging, intercom, bells, and alerts with FrontRow Conductor.

SPECIFICATIONS

LAN Interface	for Conductor
Intercom Interface	for Conductor
Serial Control	RS-232



Popular Systems

1000-00057	Juno with Bluetooth System Core Juno system including tower; teacher mic and accessory audio cables.	
1000-00058	Juno Connect with Bluetooth System Core Juno system including tower; teacher mic; module for connecting tower to network and accessory audio cables.	
1000-00083	Juno with Bluetooth System + Student Mic & Charger Core Juno system including tower; teacher mic; student mic; drop-in charger; accessory audio cables.	

Essential Accessories

1000-00215	Juno Class2Home Kit Allows a single USB connection from computer to Juno to transmit system audio over popular video conferencing solutions like MimioConnect, Zoom; Microsoft Teams; Google Meet and Skype.	
1000-00229	VESA Swivel Wall Mount Adjustable wall mount for Juno Tower or Juno with LessonCam; 100mm x 100mm.	
202-05-102-00	Universal Drop-In Microphone Charger Kit (IMC-01) Charges Teacher Mic (ITM-01/02/02L) and Student Mic (ISM-01/02/02L); includes US/UK/AUS/NZ/EU adapter plugs.	

Juno Features



Built in Bluetooth®	Yes	Stereo Sound	Yes
Automatic Lesson Capture & Sharing	Yes	Integrated Speaker Line Array	Yes
Class2Class™ Distance Learning Support	Yes	Installation-Free	Yes
Adapto™ Digital Feedback Suppression	Yes	Number of Systems per School	Unlimited
Voice Command	Yes	One-touch Operation	Yes
OptiVoice™ Speech Clarification	Yes	Touch-Screen Interface	Yes
PrioriTeach™ Teacher Voice Priority	Yes	Lead Free/RoHS Compliance	Yes
Integrated Infrared Sensor	Yes	Simultaneous Microphone Channels	Yes
Audio Inputs	4	Microphone Channel Choices	Yes
Speaker Expansion Module	Yes	Platform	Digital
Audio Output (PFM + Recording)	Yes	Warranty	5 Years

LessonCam™ Camera Option

LessonCam™ Camera and Mounting Bracket

SPECIFICATIONS

Sensor	1/2.8" HD CMOS sensor, 2.0MP
Resolution	Up to 1920 xx1080p 30/25/20/15
Compression	H.264, H.265
Video Interface	USB 2.0
LAN Interface	VISCA, ONVIF, RTSP & RTMP supported
Control Signal Interface	RS-232, RS-485
Control Protocol	VISCA/Pelco-D/Pelco-P; Baud Rate: 115200/9600/4800/2400bps
Zoom	12x lossless true optical zoom
Field of view	Horizontal 72.5° (wide) ~ 6.3° (tele)
Mechanical pan	±170°
Mechanical tilt	-30° ~ +90°
Control	Using On-Device Network Web Page
Dimensions (wxhxd)	150 x 167.5 x 150mm / 5.9 x 6.6 x 5.9in
Weight	1.4kg / 3lbs
Power	12VDC, converted from Juno power supply



Optional Integrated PTZ Camera



Mounting Bracket

How it works

The LessonCam mounts to the Juno and connects to the USB port on the teacher's computer and the teacher wears the pendant microphone. When the teacher speaks or plays a video from the computer, their voice and audio are amplified in the classroom and heard by the remote students.

All students can see the teacher or other media equally

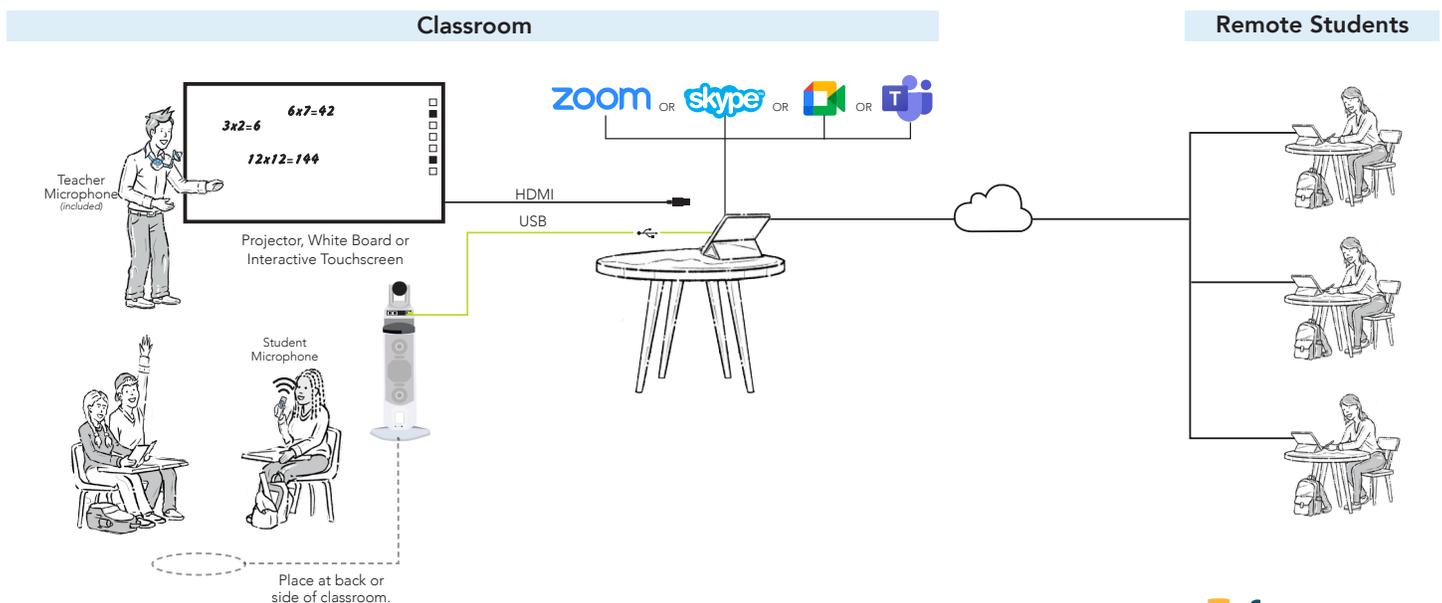
Using "Screen Share", teachers can share content from their interactive panel, live video from the FrontRow LessonCam, document camera or computer video.

All students can participate equally

When remote students are unmuted by the teacher, their voices are distributed in the classroom. When classroom students use the student microphone, their voices are amplified in the classroom and streamed online to remote students.

All students can stay caught up

Using remote conferencing recording functions or FrontRow's Teacher Edition, lessons can be recorded, shared and archived so students can access lessons for review at their convenience.



Learn more at [gofrontrow.com](https://www.gofrontrow.com)

frontrow™
by Boxlight®