



Wireless 2-Way Audio System

Nearly all MRI scanners require acoustic noise protection for the patient. The NeoCoil 2-way audio system comforts patients with their preferred audio while attenuating scanner noise with the most comfortable headphones available, without pneumatic tubes or wires. The system offers a personalized audio entertainment experience tailored to the patient preferences as the system can be used with any audio player that provides a standard 2.5mm audio output jack.



Headphones

Rated at 21dB NRR for ambient noise protection, the lightweight, comfortable, MR safe, over ear headphones include an integrated directional boom microphone that allows constant 2-way communication between patient and technologist throughout the exam. All components are shielded to eliminate any possible artifacts during image acquisition.

Alert

The system includes a wireless hand held alert that triggers a signal at the Communications Control panel, providing another method for the patient to gain the technologist's attention.

Communication Control

A Communication Control panel provides the MR operator with simple, uncluttered controls for volume and alert reset, as well as a push to talk microphone that interrupts the music stream for clear communication between operator and patient. The module includes 4 auxiliary USB charging ports for charging the wireless units.

Transmitter

A wall-mounted transmitter includes OEM-specific couplers for the filter (penetration) panel, delivering the 2.4 GHz wireless audio signals, while supporting artifact-free image generation.

Specifications

| Item | L x W x H | Weight |
|---------------------------|--------------------|--------|
| Wireless Headphones | 21cm x 17cm x 20cm | 412g |
| Wireless Patient Alert | 8cm x 6cm x 3cm | 59g |
| Pen Panel Transmitter Box | 17cm x 8cm x 3cm | 147g |
| Communication Control | 18cm x 12cm x 5cm | 325g |

Available OEM filter panel kits

- ONI OrthoOne
- ONI MSK Extreme
- GE MR430s

Consumable Accessories

- Replacement ear cushion
- Disposable ear cushion covers
- Microphone windscreen

Headphone Indicators

Power battery charger, wireless signal strength.

Communication Control Indicators and Controls

Patient alert (and reset), microphone control and volume control (patient voice, technologist voice, and audio entertainment volume).

Transmitter Indicators

Power, patient alert, network

Radio

2.4GHz ISM band

Battery

Internal Li-Po 3.7V, 750mA

Battery Life

8-10 hours of continuous use

Battery charger interface

Micro USB, 5V, 100mA - 500mA

Noise Reduction

21dB (ANSI S3.19 - 1974)