

GuardianTM G1

Wireless Audio System

- No long pneumatic tubes to manage for improved workflow
- MR Conditional wireless audio system for use with high field MRI up to 3.0T
- Integrates audio entertainment, the technologist's voice, and AutoVoice for optimum patient communication
- Dramatically attenuates gradient noise and hearing protection tested according to ANSI S3.19-1974
- Standard 3.5mm audio jack allows patients to listen to music from most audio devices
- FDA cleared





Studies show¹ that even with standard ear protection, MRI can damage hearing ability or cause tinnitus for weeks after an exam. Sometimes, the damage is permanent.

Meet Guardian™ G1: redefining the standard in hearing protection and patient comfort

for MRI.

Excessive gradient noise during an MRI examination can cause discomfort, stress, and over time, may lead to hearing damage. The noise reduction rating (NRR), a unit of measurement used to determine the effectiveness of hearing protection, is an important consideration when selecting an MR audio system. The Guadian™ Wireless Audio System has an NRR of 29 decibels (dB), allowing its use without additional earplugs at noise levels up to 128dB. To facilitate its use in studies utilizing a head coil that cannot accommodate an over-the-ear headset, the Guardian™ Wireless Audio

System includes a wireless earbud solution also rated at 29 dB NRR.

Prior to the introduction of the Guardian™ Wireless Audio System, most other MR audio systems have employed 1960s pneumatic tube technology. Wireless, tubeless technology is more comfortable than pneumatic tube systems and eliminates the possibility of the headphone displacement when the table advances. The speakers reside inside the headphones near the ear to provide the highest quality sound.



The Guardian™ G1 Wireless Audio System installs directly to the existing technologist console making for a clean installation and allowing for both audio entertainment as well as technologist communication.

Technologist push-to-talk voice and AutoVoice commands automatically interrupt the music for clear communication to the patient.

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Specifications				
	Wireless Headphones	Wireless Earbuds	Transmitter and Console Interface	Battery Charging Dock
NRR ANSI S3.19-1974	29dB	29 dB	N/A	N/A
LxWxH	19 cm x 10 cm x 20 cm	12 cm x 15 cm x 6 cm	17 cm x 8 cm x 3 cm	21 cm x 12 cm x 6 cm
Weight	565 g	285 g	180 g and 150 g	386 g
Device				3 m
	Comfortable, MR Conditional, over-the-ear headphones Individual right and left speakers with highest sound quality Rechargeable batteries	 Comfortable, MR Conditional earbuds Rechargeable batteries Primary usage: head coil applications 	 Wall-mounted transmitter including couplers for penetration panel, delivering wireless audio signals, and generating artifact-free images Technologist console interface integrating wireless hearing 	4-slot charging dock to charge batteries when not in use Compact: may be placed on desktop or mounted to wall

Device Functions

Wireless Headphones

- Power button with LED indicator for both left and right side
- Pairing button with LED indicator confirms wireless connection on both left and right side
- Removable / rechargeable battery for both left and right side

Wireless Earbuds

- Power button with LED indicator
- Pairing button with LED indicator confirms wireless connection
- Removable / rechargeable battery

Charging Dock

- Power On / Off
- Battery status indicator
- Simultaneous charging up to four batteries
- Charging Time < 6 hours

Battery / Battery Life

protection with existing MR

scanner console

- Rechargeable Li-Po 3.7 V
- 1000 mAh
- 12 hours of continuous use

Radio

• 2.4 GHz ISM band

Compatible Scanners

GEHC 1.5T and 3.0T MRI scanners release 14.0 or higher



