

Individuals with cardiac pacemakers and other similar medical devices should consult with their physician before using any RF devices. Though the output level of this wireless system is below 50 milliwatts, the proximity of the transmitter to the implant device could pose a threat.

As with any wireless product, environmental conditions can reduce or in some cases prohibit a successful connection between the transmitter and the receiver.

This device complies with Part 15 of the FCC Rules. Most users of CAD Audio wireless products in the United States do not need a license for operation. However, the rules for unlicensed operation state that this device must not operate in excess of 50 milliwatts and it must not cause harmful interference to other wireless devices, and must accept interference received from other devices. Wireless products meeting CAD factory standards adhere to these rules. The FCC reserves the right to change these rules at any time. For more information contact the FCC at 1-888-CALL-FCC (TTY: 1-888-TELL-FCC) or visit the FCC's wireless microphone website at:

www.fcc.gov/cgb/wirelessmicrophones

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

Conformément à la réglementation d'Industrie Canada, le présent émetteur radio peut fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par Industrie Canada. Dans le but de réduire les risques de brouillage radioélectrique à l'intention des autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication satisfaisante.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

CONNECT WITH US...



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STAGEPASS™



StagePass™ IEM Stereo Wireless In-ear Monitor System



**Manual and
Quick Start-up Guide**

StagePass™ IEM

Introduction

Enjoy the exciting performance of the StagePass™ IEM for your next gig. CAD Audio has been creating high-value product since 1931 and prides itself on supporting and developing the live performer. Our design criterion was straightforward: develop a high-performance wireless In-ear Monitor System that will deliver superior audio performance while supplying advanced frequency agility, capable enough to cope with today's dynamic RF environment – make it both easy to use and exciting to operate.

The StagePass™ IEM Stereo Wireless In-ear Monitor System features 16 channel frequency agile performance for outstanding connectivity. CADLock™ Automatic Tone Code Squelch eliminates unauthorized interference in RF unfriendly environments. Stereo operation lends flexibility of use – You may send discrete signals to the left or right channel. High-performance MEB2 Monitor Earbuds are included to make your listening experience top flight. The MEB2 TruPitch™ Balanced-armature Earbuds provide accurate audio reproduction while the EasyFit™ silicon earmolds provide a custom fit. The metal construction rack mountable transmitter is supplied with rack ears, half-wave antenna, antenna-relocation kit and sturdy carry case.

The StagePass™ IEM Stereo Wireless In-ear Monitor System includes the following features:

- 16 Channel UHF Agility for frequency plan flexibility
- Stereo Operation for discrete Right/Left transmission via combination XLR-1/4" connectors
- CADLock™ Automatic Tone Encoded Squelch to eliminate unauthorized interference.
- MEB2 TruPitch™ Balanced-armature Earbuds provide accurate audio reproduction while the EasyFit™ Silicon molds provide a custom fit
- AA batteries with >10hrs of battery life
- Metal Chassis Transmitter for a durable and formidable shielded enclosure.
- Transmitters have Softtouch™ Switches with multicolor LED indicators of On/Mute and Low Battery.
- 1/4" and XLR-type outputs for interfacing flexibility
- Includes carry case, rack ears and antenna-relocation kit

WARNING!

USE AS LOW A VOLUME AS POSSIBLE. PERMANENT HEARING DAMAGE CAN RESULT FROM USING THIS SYSTEM AT EXCESSIVE VOLUMES.

For safe operation of this in-ear monitor system, do not listen at excessive sound pressure levels.

Most national safety and health administrations have established guidelines for maximum time being exposed to sound pressure levels before hearing damage occurs.

85 dB(A) SPL at 8 hours

88 dB(A) SPL at 4 hours

91 dB(A) SPL at 2 hours

94 dB(A) SPL at 1 hour

97 dB(A) SPL at 30 minutes

100 dB(A) SPL at 15 minutes

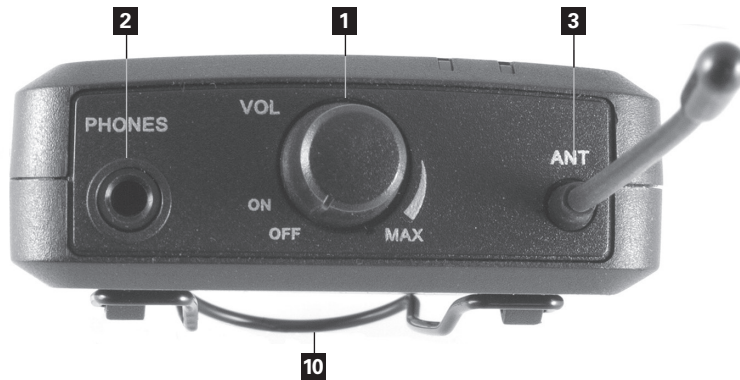
120 dB(A) SPL – avoid or hearing damage may occur

In live settings it is difficult to make exact measurements of Sound Pressure Levels (SPL) present at the eardrum, which is affected not only by the In-ear Monitor volume, but by ambient sound on the stage and other factors.

To protect your ears from hearing damage:

- Use the in-ear monitor system at the lowest volume possible; turn up the volume only enough to hear.
- Be aware that ringing in your ears may indicate that the volume is set too high.
- Have your ears examined regularly by an audiologist.
- If wax builds up in your ears, stop using the in-ear monitor system until you have seen an audiologist.
- To avoid infections, use an antiseptic to wipe the earphones before and after using the system.
- Stop using the earphones if you experience ear discomfort or infection.

- 1.** Power/volume control
- 2.** 1/8" (3.5mm) monitor connector
- 3.** Receiving antenna
- 4.** RF (radio frequency) signal indicator
- 5.** AF (audio frequency) signal indicator
- 6.** Channel display
- 7.** Channel up button
- 8.** Channel down button
- 9.** Battery door
- 10.** Belt clip



Receiving Frequency	Q Band 470 - 489MHz
Frequency Response	40Hz – 16KHz
Dynamic Range	>101dBA
Maximum Output Power	100mW into 32ohms
Dimensions	2-9/16" [6.5cm] x 4-1/2" [11.4cm] x 7/8" [2.2cm]
Net Weight	3.2oz [91g]
Power Requirements	2x AA batteries
Battery Life	>=10hrs, high-quality alkaline batteries

The image displays the front and rear panels of the EAS StagePass IEM. The front panel features a power button (1), a channel selector switch (3), a channel display (4), level meters for L and R channels (5), a phones output jack (6), and a volume knob (7). The rear panel includes a DC 12-18V 300mA input (8), mono and stereo input jacks (9), left and right AF input jacks (10, 11), AF level controls (12, 13), and an antenna (14). The EAS logo is visible on the front panel.

- 1.** Transmitter power switch
- 2.** Transmitting antenna
- 3.** Channel up/down button
- 4.** Channel display
- 5.** Audio level meter
- 6.** 1/4" monitor headphone jack
- 7.** Monitor volume control
- 8.** Power input
- 9.** Mono/Stereo selector
- 10.** Left audio (AF) input
- 11.** Right audio (AF) input
- 12.** Left audio (AF) level control
- 13.** Right audio (AF) level control
- 14.** Transmitting antenna connector

Channelization

The CAD WX1400 series wireless has 16 selectable VHF channels. Channel indicators 0 through 15 are displayed on the receiver. Corresponding frequencies (in MHz) are listed below.

CH	MHz
0	469.975
1	471.025
2	472.300
3	472.975
4	473.725
5	474.550
6	475.450
7	476.275
8	477.325
9	478.525
10	479.875
11	481.900
12	483.775
13	485.125
14	486.625
15	488.950

8 of the channels can be used at any one time if optimal atmospheric conditions exist.

CH 0 , CH 1, CH 3, CH 7, CH 9, CH 13, CH 14 and CH 15 are recommended for simultaneous usage.

Specifications TXIEM

Transmitting Frequency Q Band 470 - 489MHz
Frequency Response40Hz – 16KHz
Transmitting Power.....30mW
Modulation FM
Maximum input level +20dB
Dynamic Range.....>101dBA
Power Requirements 12 - 18VDC, 300mA
Dimensions8-3/8" [21.2cm] x 3-3/4" [9.5cm]
x 1-3/4" [4.4cm]
Net Weight..... 1lb 4oz [.55Kg]

Specifications MEB2 In-ear Monitors

Operating Principle.....Balanced Armature dynamic
Sensitivity..... 142dB@1mW
Impedance..... 22Ω

