



CALDWELL®

E-MAX®

PRO COMMS

INSTRUCTIONS & SAFETY INFORMATION

Product #1136235 Instructions #1156011 Ver. 002



Please visit www.caldwellshooting.com/warranty or contact Customer Service at 1-833-784-5520 for complete warranty terms and conditions.

For purchasing replacement parts, please contact Caldwell Customer Service
NOT WARRANTED AGAINST MISUSE, ABUSE, OR COMMERCIAL USE.

CONTENTS



CONTROLS

GENERAL

FUNCTION	ACTION
Power On	Hold MFB for two seconds until display turns off
Power Off	Hold MFB for two seconds until display turns off
Change Mode	Press MFB until display shows the desired mode
Volume	Press Vol +/-, volume level is shown in bar on display

MENU

FUNCTION	ACTION
Enter Menu Mode	With earmuff powered off, hold Vol + and MFB until Menu appears
Navigate Option or Setting	Press Vol +/-
Select Option or Setting	Press MFB
Exit Menu Mode	Hold MFB for two seconds OR navigate to Exit

RADIO

FUNCTION	ACTION
Change Channel	Press Channel Up / Down
Press-to-Talk	Hold either PTT Button

KEY POINTS FOR USAGE

Earmuffs must fit properly to provide maximum hearing protection.

Proper seal of the ear pads to the user's head is necessary for adequate hearing protection.

Do not allow the cushion seal to be impaired by objects between the ear pads and head, such as excessive hair, eyeglass frames, pencil, etc.

Do not bend or modify any portion of the earmuffs or headband.

Regularly examine earcups and ear cushions for cracks and leaks. Replace if earcups are visibly damaged or compromised. Replace ear cushions if damaged.

Clean the outside of the earmuff occasionally with mild soap or disinfectant and a damp cloth only. Do not dip the earcups or cushions into water. Do not get the inside of the earmuff wet. Allow to air dry prior to storage.

Do not store the device where the temperature exceeds 130°F (54.4°C) or where the temperature will stay below 32°F (0°C).

The product may be adversely affected by certain chemical substances. Contact the manufacturer for more information.

The fitting of hygiene covers to the ear cushions may affect the acoustic performance of the earmuffs.

This earmuff is provided with level-dependent attenuation and electrical audio input. The user should check the correct operation before use. If distortion or failure is detected, the user should refer to the manufacturer's instructions for maintenance and replacement of the battery.

The audibility of warning signals at a specific workplace may be impaired while using the entertainment functions of this earmuff.



WARNING: Performance may deteriorate with battery usage. The typical period of continuous use that can be expected from the earmuff battery is 56 hours.



WARNING: The output of the electrical audio circuit of this hearing protector may exceed the daily limit sound level.



WARNING: Modification of this device to receive cellular radio telephone service signals is prohibited under FCC.

INSTRUCTIONS FOR FITTING

To achieve maximum hearing protection, the earmuffs must be worn properly.

The earmuff is NOT reversible and should be worn so that the right earcup (with display) is worn over the right ear and the left earcup (with battery compartment) is worn over the left ear.

Extend the headband fully and place the cups over the ears with the headband passing over the head.

Settle the headband into position on the head while adjusting the height of the ear cups up or down until they completely cover the ears and the headband rests on the top of the head to support the earmuffs.

Make sure that the headband is evenly adjusted, left to right. The ear pads should be a snug fit against the head.

Make sure to get as little hair as possible between the ear pads and your head to get a good seal and maximum hearing protection.

BATTERY INSTALLATION OR REPLACEMENT

The earmuffs can be powered by 3x AA batteries or the included USB Rechargeable Lithium-Ion Battery Pack.

Turn off the power by pressing the Power Button for 2 seconds.

Locate the Battery Compartment Cover on the left earcup.

Slide the Battery Compartment Cover towards the front of the earcup until the latch is disengaged and remove Battery Compartment Cover.

Remove the discharged battery (Lithium-Ion) or batteries (AA).

Insert 3x new AA batteries or a fully charged USB Rechargeable Lithium-Ion Battery into the Battery Compartment. Make sure that the positive (+) and negative (-) matches the markings in the Battery Compartment.

Replace the Battery Compartment Cover.

Remove the batteries if the product will be stored for an extended period of time (30 days or more).

AMBIENT MODE

Ambient mode allows you to hear, and even amplify the sounds around you.

Turn on the earmuffs by pressing and holding the Power for 2 seconds.

Cycle to Ambient mode by pressing the MFB until “AMBIENT ACTIVE” is displayed .

Adjust the volume by pressing the VOL + / VOL – buttons.

BLUETOOTH® PAIRING

The earmuffs include Bluetooth audio capability allowing you to listen to music and audio from a Bluetooth audio device such as a smartphone.

Turn on the earmuffs by pressing and holding the Power for 2 seconds.

Cycle to Bluetooth mode by pressing the MFB until “BLUETOOTH” is displayed

The screen will display “SEARCHING...”.

On your Bluetooth device, select “COMMS” from your Bluetooth devices menu.

After pairing is complete, the screen on the earmuff will display “CONNECTED”.

NOTE: If you want to disconnect, simply unpair from your Bluetooth device’s Bluetooth menu.

RADIO MODE

The earmuffs include 2-Way Radio capability, allowing you to communicate with other people wearing the E-Max Pro Comm earmuff, the E-Max Link handheld radio, or radios using the same FRS frequencies.

Turn on the earmuffs by pressing and holding the Power for 2 seconds.

Cycle to Radio mode by pressing the MFB until “RADIO” is displayed.

The screen will display the active channel.

Navigate to the desired channel by pressing Channel UP or DOWN buttons.

Install either the short or boom microphone into the left or right microphone port as desired.

NOTE: For best results, use only one microphone in one port, protecting the unused port with the included rubber plug.

To speak over the radio, press and hold either the left or right PTT button. Release when you are done speaking to allow others to speak on the same channel.

NOTE: See Menu Options for instructions on advanced radio functions.

MENU OPTIONS

Brightness: The brightness level of the screen backlight

0 10 20 30 40 50 60 70 80 90 100



Auto-Dim: How long before the backlight on the screen turns off after inactivity

1 Sec 3 Sec 5 Sec 10 Sec 15 Sec 30 Sec

Privacy Code: – CTCSS/DCS Codes allow the radio to not hear calls from other radios on the same channel using different CTCSS/DCS Privacy Codes.

NOTE: See full list on pages 8–9.

VOX: Voice activated keying uses the volume of your voice to enable the transmitter without pressing the PTT button.

Off 1 2 3 4 5 6 7 8

NOTE: (**1**) transmits only when speaking loudly

NOTE: (**8**) transmits even when speaking softly

NOTE: A slight delay between speaking and hearing when using the VOX function is normal

Radio Power: Sets the power level of the radio transmitter. Lower power has a shorter range but conserves battery power.

Off

High (Most transmit power, shortest battery life)

Mid

Low (Lowest transmit power, longest battery life)

Squelch: The squelch level will quiet weak signals to reduce interference from other radios that are far away.

Off 1 2 3 4 5 6 7 8 9

NOTE: (**1**) weak signals will be heard

NOTE: (**9**) only strong signals will be heard

Reset: Resets all settings to default

Exit: Exits the menu system

RADIO CHANNEL & FREQUENCIES

CHANNEL NO.	FREQUENCY
1	462.5625
2	462.5875
3	462.6125
4	462.6375
5	462.6625
6	462.6875
7	462.7125
8	467.5625
0	467.5875
10	467.6125
11	467.6375
12	467.6625
13	467.6875
14	467.7125
15	462.5500
16	462.5750
17	462.6000
18	462.6250
19	462.6500
20	462.6750
21	462.7000
22	462.7250

PRIVACY CODES (DCS/CTCSS)

50 CTCSS Codes (Hz)

NO.	CODE	NO.	CODE	NO.	CODE	NO.	CODE
1	67.0	14	107.2	27	167.9	144	69.3
2	71.9	15	110.9	28	173.8	145	159.8
3	74.4	16	114.8	29	179.9	146	165.5
4	77.0	17	118.8	30	186.2	147	171.3
5	79.7	18	123	31	192.8	148	177.3
6	82.5	19	127.3	32	203.5	149	183.5
7	85.4	20	131.8	33	210.7	150	189.9
8	88.5	21	136.5	34	218.1	151	196.6
9	91.5	22	141.3	35	225.7	152	199.5
10	94.8	23	146.2	36	233.6	153	206.5
11	97.4	24	151.4	37	241.8	154	229.1
12	100.0	25	156.7	38	250.3	155	254.1
13	103.5	26	162.2				

PRIVACY CODES (DCS/CTCSS)

105 DCS Codes

NO.	CODE	NO.	CODE	NO.	CODE	NO.	CODE	NO.	CODE
39	23	60	143	81	315	102	532	123	053
40	25	61	152	82	331	103	546	124	122
41	26	62	155	83	343	104	565	125	145
42	31	63	156	84	346	105	606	126	212
43	32	64	162	85	351	106	612	127	225
44	43	65	165	86	364	107	624	128	246
45	47	66	172	87	365	108	627	129	252
46	51	67	174	88	371	109	631	130	255
47	54	68	205	89	411	110	632	131	266
48	65	69	223	90	412	111	654	132	274
49	71	70	226	91	413	112	662	133	325
50	72	71	243	92	423	113	664	134	332
51	73	72	244	93	431	114	703	135	356
52	74	73	245	94	432	115	712	136	446
53	114	74	251	95	445	116	723	137	452
54	115	75	261	96	464	117	731	138	454
55	116	76	263	97	465	118	732	139	455
56	125	77	265	98	466	119	734	140	462
57	131	78	271	99	503	120	743	141	523
58	132	79	306	100	506	121	754	142	526
59	134	80	311	101	516	122	36	143	645

NRR RATING

NRR = 23dB Tested in accordance with ANSI S3.19-1974 Over-the-head

Frequency (Hz)	125	250	500	1000	2000	3150	4000	6300	8000
Mean Attenuation dB	17.1	21.5	29.4	34.4	35.3	35.8	38.9	38.6	38.2
Standard Deviation dB	3.1	3.7	3.5	2.4	3.4	3.8	3.3	2.4	2.7

The NRR calculated from these laboratory-based attenuation data is 23.


Improper fit of this device will reduce its effectiveness in attenuating noise. Consult instructions use for proper fit. The level of noise entering a person's ears when a hearing protector is worn as directed is closely approximated by the difference between the A-weighted environmental noise level and the NRR.

NRR RATING

Examples:

The environmental noise level as measured at the ear is 92 dB(A). The NRR is 23 decibels (dB)

The level of noise entering the ear is approximately equal to [92 dB - 23] 69 dB(A).

Noise Reduction Rating		23 DECIBELS (WHEN USED AS DIRECTED)
THE RANGE OF NOISE REDUCTION RATINGS FOR EXISTING HEARING PROTECTORS IS APPROXIMATELY 0 TO 30 (HIGHER NUMBERS DENOTE GREATER EFFECTIVENESS)		
AOB PRODUCTS COM COLUMBIA, M O	PANY	MODEL #1136235
Federal law prohibits removal of this label prior to purchase	 EPA	LABEL REQUIRED BY U.S. E.P.A. REGULATION 40 CFR PART 211 SUBPART B



CAUTION: For noise environments dominated by frequencies below 500Hz, the C-weighted environment noise level should be used. Although hearing protectors can be recommended for protection against the harmful effects of impulsive noise, the noise reduction rating (NRR) is based on the attenuation of continuous noise and may not be an accurate indicator of the protection attainable against impulsive noise such as gunfire.

FCC STATEMENT

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

BATTERIES

This product uses Lithium-Ion batteries. Misuse of batteries could cause a leak, rupture or other trouble. When throwing used batteries away, follow the disposal instructions indicated on the batteries and the local disposal laws. Do not heat or disassemble batteries. Do not put in fire or water. Batteries could rupture or leak, causing fire, injury or stains around them.

ENVIRONMENTALLY SAFE BATTERY DISPOSAL



**This product contains the following toxic and corrosive material:
LITHIUM-ION**



WARNING:

Toxic materials must be disposed of in a specified manner in order to prevent contamination of the environment. Before disposing of damaged or worn out Lithium-Ion battery packs, contact your local waste disposal agency or the local Environmental Protection Agency for information and specific instructions. Take the batteries to a local recycling and/or disposal center that is certified for disposal. If the battery pack cracks or breaks, whether it leaks or not, do not recharge it and do not use it. Dispose of it and replace it with a new battery pack. **DO NOT ATTEMPT TO REPAIR.**

Follow these instructions in order to avoid injury and the risk of fire, explosion, or electric shock and to avoid damage to the environment:

- **DO NOT** attempt to remove or destroy any of the components of the battery pack.
- **DO NOT** attempt to open the battery pack.
- **DO NOT** get the solution in the eyes or the skin, and do not swallow it.
- **DO NOT** place batteries in regular household trash.
- **DO NOT** incinerate batteries.
- **DO NOT** place batteries where they will become part of any waste landfill or municipal solid waste team.
- Cover the batteries terminals with heavy-duty adhesive tape.
- Dispose of batteries at a certified recycling or disposal center.
- If a leak develops, the electrolytes that are released are corrosive and toxic.

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