

# Local 446

## Two Way Communication Radio, Active Listening

Local is a headset and hearing protector, featuring a built-in communication radio that allows for two-way communication over the local worksite.

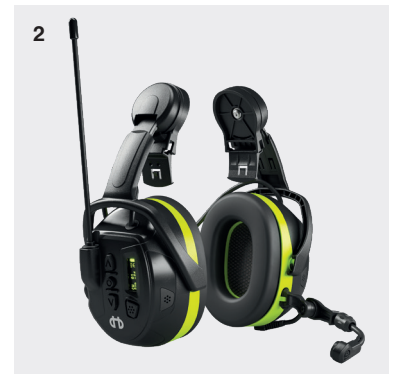
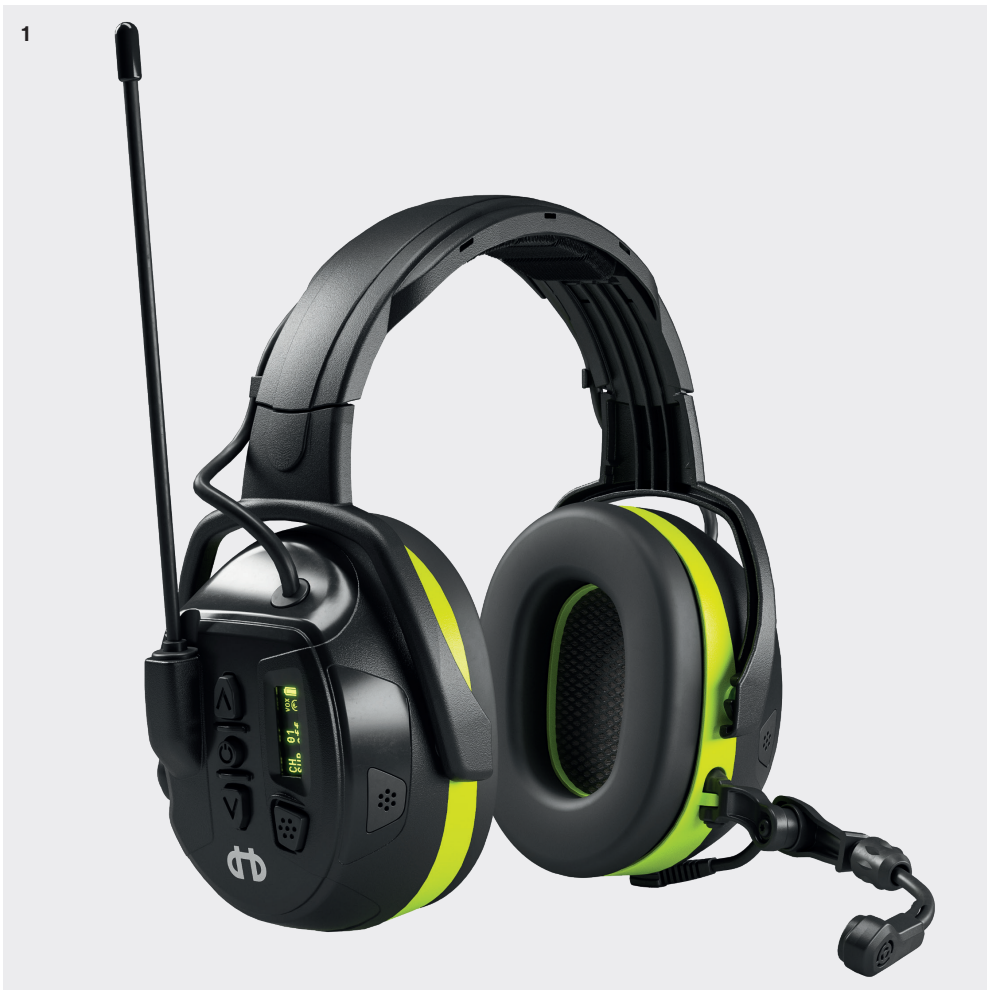
The wireless headset to headset link is ideal for short message communication on the job, increasing work-site efficiency and safety.

### 1. Local 446 Headband

Article nr: 85001-001

### 2. Local 446 Helmet Mount

Article nr: 85101-001



## Overview/Features

 **Two way communication**

 **Active Listening**

 **USB charging**

 **Boom microphone**

Local does not require any external devices, such as mobile radios or cellular phones to establish a communication link thus making it the perfect solution when you need to rely on clear communication, at all times, to get the job done.

Additionally, Local offers high noise attenuation performance, a noise cancelling boom microphone for clear speech quality and Active Listening microphones for ambient awareness.

The durable and non-conductive headband and helmet attachments together with the soft replaceable cushions ensure great fit and all-day wearing comfort.

### **Built-in Communication Radio**

A com-radio is built into the hearing protector for two-way communication between an unlimited number of Local headsets.

### **16 Licence-Free Radio Channels (PMR 446)**

Easy to get started with pre-set and licence-free channels. Compatible with other units operating on PMR 446 MHz.

### **Group Communication with Sub Channels**

Sub channels enables multiple groups to use the same channel without disturbing each other.

### **Hands-Free Operation**

Local features VOX (voice operated transmission) which allows for hands-free operation so that you can keep communicating while working with both hands.

### **Intuitive User Interface**

Easy operation with ergonomically designed push buttons, a guide voice that helps you with the settings and an OLED display to check the setup before starting the day's work.

### **Noise Cancelling Boom Microphone**

The noise-cancelling boom microphone allows clear communication even in extreme noise environments. The unique technology combined with advanced software algorithms ensure you are always heard at the receiver end, regardless of the background noise.

### **Level Dependent Active Listening**

Level-dependent microphones with Active Listening functionality in each ear cup lets you stay alert to your surroundings while still wearing your hearing protection. Communicate with your colleagues and hear warning signals and other important sounds without ever compromising your safety and hearing.

### **Runs on Rechargeable or Disposable AA batteries**

Use the included rechargeable batteries or change to disposables if you forgot to charge the headset.

### **USB Charging**

Batteries are quickly charged with the included USB charging cable. Just plug it in to a USB source or use your mobile phone wall socket adaptor. A Hellberg wall socket adaptor is available as an accessory.

### **Battery Power-save Function**

Automatically shuts off the unit after a period of inactivity or no movement. Helps to avoid draining the battery if you forgot to turn it off at the end of the working day.

### **Speakers Designed for Voice Communication**

The speakers are designed with focus on excellent sound quality in the frequency range of the human voice, for clear speech intelligibility even in extreme noise environments.

## Technical data

- Radio standard: PMR 446 MHz (EU)
- Channel separation: 12,5 kHz
- Modulation: FM
- Number of ch.: 16
- Sub channel coding: CTCSS
- Number of Sub channels: 38
- Transmit power: 150/50/10 mW ERP
- Range: 3 km line of sight
- Receiver sensibility: Typical - 120 dBm
- Power supply: 2 x AA user replaceable 1,2-1,5V
- Included batteries: 2 x NiMH 2600 mAh
- Weight: 513 g Headband, 547 g Helmet Mount
- Battery operation time: 12 hours normal operation
- Battery standby time: 20 hours
- Battery charging time: Up to 5 hours
- Water and dust resistance: IP 56
- Approvals: EN352, RED, ROHS, REACH, WEEE
- Operating temperature: -20 °C to +55 °C

### Radio Channels (MHz)

Ch	Frequency	Ch	Frequency	Ch	Frequency	Ch	Frequency
1	446.0062	5	446.05625	9	446.10625	13	446.15625
2	446.01875	6	446.06875	10	446.11875	14	446.16875
3	446.03125	7	446.08125	11	446.13125	15	446.18125
4	446.04375	8	446.09375	12	446.14375	16	446.19375

### Sub channels CTCSS (Continuous Tone Coded Squelch System)

Ch	Frequency	Ch	Frequency	Ch	Frequency	Ch	Frequency	Ch	Frequency	Ch	Frequency
1	67.0	8	88.5	15	110.9	22	141.3	29	179.9	36	233.6
2	71.9	9	91.5	16	114.8	23	146.2	30	186.2	37	241.8
3	74.4	10	94.8	17	118.8	24	151.4	31	192.8	38	250.3
4	77.0	11	97.4	18	123.0	25	156.7	32	203.5		
5	79.7	12	100.0	19	127.3	26	162.2	33	210.7		
6	82.5	13	103.5	20	131.8	27	167.9	34	218.1		
7	85.4	14	107.2	21	136.5	28	173.8	35	225.7		

# Technical data

## Attenuation data EN

### Local 446 Headband; EN 352-1:2020, H-32dB, M-28dB, L-22dB, SNR 30dB

Frequency Hz	63	125	250	500	1000	2000	4000	8000
Mean Attenuation	18,5	19,1	21,7	26,2	36,6	36,1	35,6	36,5
Std. dev	3,7	3,3	2,6	2,8	3,1	5,1	4,1	4,3
APV	14,8	15,8	19,1	23,4	33,5	31,0	31,5	32,2

### Local 446 Helmet Mount; EN 352-1:2002, EN 352-3:2020, H-34dB, M-27dB, L-22dB, SNR 29dB

Frequency Hz	63	125	250	500	1000	2000	4000	8000
Mean Attenuation	18,3	17,4	20,8	23,6	33,1	35,9	37,1	38,2
Std. dev	5,1	5,9	3,3	2,6	4,1	2,7	3,7	5,1
APV	13,2	11,5	17,5	21,0	29,0	33,2	33,4	33,1

## Articles / Accessories

Part no	Description
26046-915	Spare Headband Electronics
26108-910	Spare Helmet Arm
99403-001	Hygiene Kit Secure Electronics
99900-001	Fresh Sweat Absorber
1059-001	Windshield Active Listening Microphones
16982-001	Boom Microphone
16999-001	Windshield Boom Microphone
39927-001	USB charging cable Local
17004-001	Battery pack AA
17112-001	Battery pack gasket
17193-001	Charger EU
17193-007	Charger UK