

# Technical datasheet

## SECURE 2H SYNERGY 49002-001



### DESCRIPTION

With SYNERGY you have wireless bluetooth connection to your mobil phone. The noise suppressed boom microphone allows clear communication even in extreme high noise environments. The "side tone function" enable your voice to be heard clearly and lets you speak in a normal conversation level.

You can listen to AM/FM radio and communicate with your colleagues while still being protected from harmful noise. Level dependent microphones in each earcup ensure excellent directional hearing, offers natural sounds and enable you to hear conversations, and other important information without compromising protection. Easy to reach controls let you tune the AM/FM radio accurately. The automatic frequency control will lock on to your favourite station for the best reception available even in low signal areas.

- BLUETOOTH® with A2DP profile - For calls and streaming.
- Noise suppressed boom microphone - Filter out background noise in favor of speech.
- Electronic protection system - The sound from the AM/FM radio, Bluetooth™ and the level dependent function are limited to a safe level.



### APPLICATIONS

SYNERGY can be used for a variety of applications.

The headset connects wireless via Bluetooth™ to your phone and you can make phone calls and stream your choice of sound entertainment without ever needing to compromise your safety.

### TECHNICAL DATA

Batteries	2 x 1,5 V AA included (min. 23 hours of use with all functions active)
Weight	Headband 459 g
Sound reproduction	Stereo
Radio	FM: 88-108 MHz, AM: 540-1700 KHz
Bluetooth™	Handsfree and A2DP (Advanced Audio Distribution Profile) profiles
Approved to European standard, PPE directive 89/686 EEC and R&TTE directive 1999/5/EC	EN 352-1, 3, 4, 6, 8 EN 60950-1, 301 489-1, 301 489-17, 300 328, 62311:2008
Approved to FCC & IC	FCC ID:QF9-SYNERGY, IC:5808A-SYNERGY

### ATTENUATION DATA

#### SECURE 2H SYNERGY, EN 352-1:2002, H- 34, M-27, L-19, SNR 30

Frequency Hz	63	125	250	500	1000	2000	4000	8000
Mean Att.	15,0	15,1	19,8	28,0	34,1	36,7	42,7	41,9
Std. dev	4,5	3,4	2,4	3,1	3,7	4,2	4,1	3,5
APV	10,5	11,7	17,4	24,9	30,4	32,5	38,6	38,4

#### SECURE 2H SYNERGY, ANSI S3.19-1974, CSA A

Frequency Hz	125	250	500	1000	2000	3150	4000	6300	8000	NRR
Mean Att.	14,9	19,2	27,3	35,4	37,2	39,8	43,3	43,8	41,1	23
Std. dev	3,8	2,1	2,9	3,4	4,2	4,6	3,8	5,4	5,4	

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### MATERIAL DATA

Part	Material
1. Headband cushion	Polyether & Lycra
2. Headband	POM
3. Foam liner	Polyether
4. Ear cushion	Polyeter & PVC-foil
5. Earcups	ABS
6. Knobs	ABS & TPE

### ORDER INFORMATION

Part no	Description
49002-001	SECURE 2H SYNERGY



### ACCESSORIES and spareparts

Part	Description
99403	Hygiene kit
99900-001	Sweat Absorbers
16999-001	Windshield Boom Microphone
39926	USB cable
17173-001	Rechargeable AA batteries
39922-001	3,5 mm stereo connection cable
16982-001	Boom microphone
1059-001	Windshield level dependent microphones
20901-001	SAFE2 standard carrier
20901-010	SAFE2 standard low peak carrier
20901-501	SAFE2 flex carrier
20901-510	SAFE2 flex low peak carrier



### MAINTENANCE

Hearing protectors should be inspected prior to use for damage or deterioration. Damaged or worn parts should be replaced prior to use. The noise reduction will only be obtained if the earmuffs are in good order and worn as directed. Ear muffs, and in particular cushions, may deteriorate with use and should be examined at frequent intervals for cracking and leakage. Hygiene kit/cushions should be replaced twice a year or when the cushion show signs of damage or hardening.

For better comfort there are sweat absorbers that absorbs sweat and moisture. Remember that use of absorbers over the ear cushions can reduce the hearing protector's noise attenuation properties.

### WARNING

The reported attenuation will be obtained only if the protector is in good condition and worn as directed.

The sound attenuation of hearing protectors in the field may differ from from that obtained in laboratory testing due to incorrect fitting. Noise reduction will be also be adversely affected by anything that impairs the seal of the earmuff cushions against the head, such as thick spectacle frames, balaclavas etc.

The protection must always be used in noisy environments. A hearing protection with an attenuation of 30dB will only give you a protective effect of 12dB if removed 30 minutes during an 8 hour working day.