

3M™ Peltor™ Technical Datasheet



PELTOR™

3M™ Peltor™ WS™ Alert XP MRX21*WS5

Product description:

With a built-in FM-radio receiver, Bluetooth® and a level dependent function, 3M™ Peltor™ WS™ Alert XP enables users to have wireless telephone conversations or listen to their favourite music even in noisy environments.

Key Features:

- FM radio receiver (2G circuit)
- Wireless calls and music with Stereo Bluetooth®
- Patented speaker system for full-bodied dynamic sound
- Super fast tuning
- Memory/preset function
- Level dependent function for ambient listening
- Sound limiter and dosimeter
- Stainless steel headband
- Ghost voice guided interface
- Re-chargeable with NiMH batteries (not included)
- Configure menu:
 - Bass Boost
 - Music Limiter Mode
 - Surround Balance
 - Surround Equalizer
 - Side tone volume setting
 - Battery Type
 - Reset to Factory Default

- (A:1) Headband wire (Stainless steel)
(A:2) Two-point fastener (Acetal)
(A:3) Ear cushion (PVC foil and Polyester foam)
(A:4) Microphone for surround sound
(A:5) Cushion (Polyurethane foam)
(A:6) Inner shell
(A:7) Outer shell
(A:8) Clamp
(A:9) Headband (PVC foil)
(A:10) Headband padding
(A:11) AUX audio input, 3.5 mm stereo
(A:12) Speech mic input, J22
(A:13) Charger jack
(A:14) On/Off/Mode
(A:15) VOL+
(A:16) VOL -
(A:17) Menu
(A:18) Bluetooth/PTT
(A:19) Speech microphone
(A:20) Non rechargeable AA alkaline batteries
(A:21) FL6CE



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Versions:

Article number	Description	3M ID number
MRX21AWS5	WS Alert XP, head band	XH001679865
MRX21P3EWS5	WS Alert XP, helmet att.	XH001679915

Standards and Approval:

MRX21*WS5 is in conformity with the provisions set out in the PPE directive 89/686/EEC and the R&TTE directive 1999/5/EC and is thus CE marked.

The product has been tested and approved in accordance with EN 352-1:2002, EN352-3:2002, EN352-4:2001, EN352-6:2002, EN 301 489-1 V1.8.1, EN 301 489-17 V2.1.1, EN 300 328 V1.7.1, EN60950-1:2006 +A11:2009 +A1:2010 +A12:2011.

The product has been examined by:

Combitech AB, Kungsörsvägen 68, SE-732 81 Arboga, Sweden,
Notified body #1914, Layers AG, Borsigstr. 11 40880 Ratingen, Germany

Accessories:

Article number	Description	3M ID number
FL6CE	3,5 mm to 3,5 mm cord	11003066724
HY81	Hygiene kit	not yet available
LR6NM	Rechargeable AA batteries	XH001659693
FR08	USB Wall adapter	XH001680194
FR09	USB Charger cord	not yet available

In the box:

- 1 x Headset
- 2 x AA batteries (non re-chargeable)
- 1 x User Instructions
- 1 x 3,5mm cable
- 1 x Quick start guide

Technical Data Specifications:

Materials: Headband wire (stainless steel)

Two-point fastener (headband wire)

Ear cushion (PVC foil and polyester foam)

Cup fill cushion (polyester foam)

Headband (stainless steel sheet metal)

Headband padding (PVC foil)

Cup (ABS)

Battery Type: AA 1.2–1.5V batteries can be used (NiMH, NiCd, Alkaline, Lithium, Manganese, etc), but only NiMH batteries can be recharged

Operating time: The expected battery life may vary depending on the brand of batteries and the temperature in which the product is used. Low battery level is indicated by a voice saying: "low battery". The headset functions will not work optimally if the battery is low.

Surround +FM radio+ Bluetooth (standby) > 32 h

Surround + FM radio+ Bluetooth (active) > 23 h

Net Weight: Headband 430g, helmet att. 465g (incl. batteries)

Operating temperature: -20°C to +55°C (battery dependent)

Storage Temperature: -20°C to +55°C

Charging Temperature: 0°C - +40 °C

Bluetooth Version: 2.1

Bluetooth Profiles:

Bluetooth headset profile 1.2

Bluetooth hands-free profile 1.5

Bluetooth A2DP profile 1.2

AVRCP 1.0

Bluetooth Range: Up to 10m, class 2

Pairing PIN: 0000

Wired Connectivity: 3,5mm AUX input jack (limited to 82 dB)

Speakers: 27 mm diameter 100 Ohm

Boom microphone type: Noise cancelling electret microphone

Warranty:

The warranty does not cover any damage caused by neglected maintenance or careless handling. For more information on maintenance, please see the user instruction. For full warranty condition, contact your dealer or local 3M office.

Attenuation

MRX21P3EWS5

Frequency (Hz)	63	125	250	500	1000	2000	4000	8000
Mean attenuation (dB)	15,2	15,4	19,8	27,1	28,9	34,3	38,7	37,8
Std deviation (dB)	3,9	2,4	2,1	2,9	2,7	2,7	3,6	2,0
Assumed Protection Value (dB)	11,2	12,7	17,7	24,2	26,2	31,5	35,0	35,8

SNR=29 db H=32 db M=26 db L=19 db

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Frequency (Hz)	63	125	250	500	1000	2000	4000	8000
Mean attenuation (dB)	17,0	15,5	19,2	28,0	29,6	35,1	34,4	37,1
Std deviation (dB)	3,2	2,3	1,5	2,1	2,4	2,4	4,0	3,0
Assumed Protection Value (dB)	13,8	13,2	17,7	25,9	27,2	32,7	34,4	34,1

SNR=29 db H=33 db M=26 db L=20 db