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MOTOROLA



**Break through the barriers of
two-way communications with
the highest audio clarity**

Upgrade your system with
Ear Microphone System technology

Ear Microphone System



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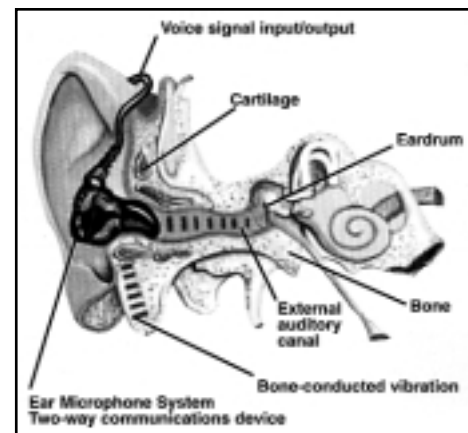
Motorola brings you the very best in terms of compatibility. The Ear Microphone System is compatible with virtually any current Motorola two-way radio communications system.

Features This compact unit picks up the voice through bone vibrations in the ear canal. The miniature earpiece leaves the hands free and face unobscured when worn by rescue and hazard protection personnel, who still retain the ability for direct hearing and speaking. For personnel required to wear breathing apparatus, communications with protective masks are as clear as communications without. And its high speech clarity under noisy environments makes it ideal for high noise environments. Available in PTT or Voice Activated (VOX). An Interface Module is required and needs to be ordered separately.

The Secret to Advanced Ear Microphone Communications

Unlike conventional ear microphones, which collect sound via airwaves, the Motorola Ear Microphone System is designed to reproduce sounds collected through speech-induced bone vibrations. The speech impulses generated by the vocal chords are then transmitted to the ear canal. Here, these bone conducted sounds are detected by a vibration pick-up microphone and converted into electrical signals for voice transmission.

Incoming radio transmissions are amplified by a miniature earphone and passed on to the eardrum.



Accessories

Ring PTT Switch

This water resistant, low profile push-to-talk switch with coiled cord facilitates remote radio operation.

Model #0180358B38



Bodyswitch PTT

This bodyswitch PTT with swivel clip facilitates remote radio operation. It is easily activated by applying pressure anywhere on the switch with your arm, hand, or elbow.

Model #0180300E83



Eartip

This detachable medical grade soft silicone rubber eartip facilitates easy cleaning in everyday use and provides excellent user comfort. It comes in sizes medium and large. Color is black or beige.

See chart on reverse side for size, color and model numbers.



Adjustable Earholder

The adjustable earholder is designed to reduce cord noise and is recommended for use in VOX (voice-activated) operations. The size of the earholder can be easily adjusted to fit your ear. Color is black.

Model #0180300E25



Ear Holder

The molded soft silicone rubber ear holder keeps the Ear Microphone firmly but comfortably in the ear. It comes in small, medium and large sizes to accommodate the specific user. Color is clear or black.

See chart on reverse side for size, color and model numbers.



Ear Microphone System Cross Reference Chart

Note: An ear microphone system consists of one radio interface module and one ear microphone. Both must be ordered to complete a system.

RADIO MODEL #	RADIO INTERFACE MODULE	EAR MICROPHONE	STANDARD EARHOLDER
HT600, MT1000, P200	*BDN6656 PTT	*BDN6641 Gray high noise level Ear microphone (up to 105dB)	0180358B32 Size S – Black 0180358B33 Size M – Black 0180358B34 Size L – Black
	*BDN6657 VOX/PTT		
MTX800/888	*BDN6679 PTT	*BDN6677 Black standard noise level Ear microphone (up to 95dB)	0180358B35 Size S – Clear 0180358B36 Size M – Clear 0180358B37 Size L - Clear
	*BDN6680 VOX/PTT		
STX/MX800	*BDN6644 PTT	*BDN6678 Beige standard noise level Ear microphone (up to 95dB)	
	*BDN6655 VOX/PTT		
Saber, Astro Digital Saber	*BDN6642 PTT		
	*BDN6643 VOX/PTT		
HT1000, MT2000, MTX838, MTS2000	*BDN6708 PTT		
	*BDN6671 VOX/PTT		
VISAR	BDN6771 PTT	BDN6770 Gray high noise level Ear microphone (up to 105dB)	EAR TIP**
	BDN6779 VOX/PTT	BDN6768 Black standard noise level Ear microphone (up to 95dB)	5080358B28 Size M – Black
GP328/338 Plus	JMMN4064 VOX/PTT	BDN6769 Beige standard noise level Ear microphone (up to 95dB)	5080358B29 Size L – Black
GP300/P110#, GP88, GP308, GP88s	*BDN6646 PTT	Not applicable	5080358B30 Size M – Beige
	*BDN6706 VOX/PTT		
GP328/338/329/339, PTX700/760/780	*AZRMN4044 PTT	*BDN6677	5080358B31 Size L – Beige
	*AZRMN4045 VOX/PTT (HT1250LS-VOX operational only in conventional mode)	*BDN6678	
		*BDN6641	
XTS3000, XTS3500	*BDN6708 PTT	*BDN6677	
	*BDN6670 VOX/PTT	*BDN6641 *BDN6678	
ATS2500, MTX900/960	*AZRMN4044 PTT	*BDN6677	
		*BDN6641 *BDN6678	
LTR.PRO Series	*AZRMN4044 PTT	*BDN6677	**10 per package
	*AZRMN4045 VOX/PTT	*BDN6678	
	(VOX operational only in conventional mode)	*BDN6641	

The GP300/P110 Ear Microphone System consists of both the radio interface module and the ear microphone as one model number.

* FM Approved.

Specifications

Earpiece

Dimensions	16.4 mm (W) x 13.5 mm (H) x 26 mm (L)
Cable Length	110 ±5 cm including connector
Weight (VISAR)	Standard noise level ear mic: 15g High noise level ear mic: 18g
Weight (All Others)	Standard EM: 17g High noise EM: 20

Microphone

Type	Piezo-electric accelerometer
Output Sensitivity	-31 dB ±5 dB at 1 kHz (0 dB=1 V/0.5G)
Operating Voltage (VISAR)	DC 0.9-10V
Operating Voltage (All Others)	DC 2.5-10V

Receiver

Type	Electromagnetic receiver
Rated Input	1mW
Rated Output S.P.L	106 dB @ ±5 dB at 1mW, 1kHz (0 dB=20µPa)

Interface Module

Power Supply	AAA size 1.5 V alkaline battery
Min. Operating Voltage	0.95 V
Operating Temperature	-20~+60°C

PTT Interface Module

(VISAR) Battery Life	40 hours (alkaline) in continuous transmit
Dimensions (Housing)	39mm (W) x 18mm (D) x 68mm (H)
Weight	100g (includes battery)

VOX Interface Module-BDN6779

(VISAR) Battery Life	35 hours (alkaline) in continuous VOX operation
VOX Rise Time	0.3 sec. Max
VOX Hang Time	1.0 sec. ±40%
Dimensions (Housing)	39mm (W) x 18mm (D) x 68mm (H)
Weight	100g (includes battery)

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