

IN-EAR MONITOR SYSTEMS

Manufacturer, Model; Website	Audio Format	Audio Response	Bands/Frequencies Per Band	S/N Ratio	RF Range	RF Sensitivity	Max RF Output	Notes
AKG IVM4; www.akg.com	stereo, mono, dual-channel	35-20k Hz	4/14	>90 dBA	UHF	121dB SPL/V	10, 20, 50 or 100 mW	Complete system
beyerdynamic IMS 900; www.beyerdynamic.com	mono or stereo	50-15k Hz	4/16	94 dBA	UHF	At 2uV input level, S/N > 58 dB	100 mW	Complete system
Galaxy Audio AS-1000; www.galaxyaudio.com	mono or stereo	40-15k Hz	1/64	>94 dB	UHF	At 5dBuV, S/N > 80dB	100 mW	Complete system
Hear Technologies Freedom Back; www.heartechnologies.com	mono or stereo	40-16k Hz	2/120	N/A	UHF	-94 dB for 30dB SINAD	10 dBm (nominal)	Complete system
Lectrosonics IFB4; www.lectrosonics	mono	30-20k Hz	10/256	90 dBA	UHF	N/A	250 mW	IFB (interruptible foldback) transmitter
Lectrosonics R1a	mono	100-10k Hz	N/A	95 dBA	UHF	1 uV (20dB SINAD)	N/A	IFB receiver
Lectrosonics UM400a	mono	32-20k Hz	14/256	>100 dB	UHF	N/A	100 mW nominal	Transmitter, Digital Hybrid Wireless technology
Nady PEM500; www.nady.com	mono or stereo	50-12k Hz	1/16	>80 dB	UHF	2.5 uV (-100dB/12dB SINAD)	50 mW	Complete system
Nady E03	mono	100-10k Hz	1/8	60 dB	VHF	2 uV for 12dB SINAD	80,000 uV @ 3 meters	Complete system
Rolls PM50s; www.rolls.com	stereo or mono	20-20k Hz	N/A	90 dB	Wired	N/A	N/A	Personal monitor amp, dual TRS outs
Rolls PM50sOB	stereo	50-20k Hz	N/A	90 dB	Wired	N/A	N/A	Personal monitor amp, can be battery powered
Rolls PM52	stereo or mono	N/A	N/A	QQQ	Wired	N/A	N/A	Passive headphone tap; requires power amp
Rolls PM351	stereo or mono	10-30k Hz	N/A	90 dB	Wired	N/A	N/A	3-channel personal monitor mixer
Samson EarAmp™; www.samsontech.com	stereo or dual-mono	20-20k Hz	N/A	80 dB	Wired	N/A	N/A	Wired belt-pack
Samson Wireless EarAmp™	stereo or dual-mono	40-15k Hz	8/16	>80 dB	UHF	N/A	50 mW	Complete system
Sennheiser EK 3253; www.sennheiserusa.com	stereo	40-15k Hz	5/32	90 dB(A) RMS	UHF	typ. 1.5 uV at 52 dBA	N/A	Transmitter
Sennheiser ew 300 IEM G2	stereo or dual-mono	40-15k Hz	5/12	91 dB	UHF	< 2.5 uV at 52 dBA	max. 30 mW	Complete system w/earpieces
Sennheiser SR 3254	stereo or dual-mono	40-15k Hz	5/32	90 dB(A) RMS	UHF	N/A	max. 100 mW (50 mW, ±2dB on delivery)	Receiver
Sennheiser SR 3256	stereo or dual-mono x2	40-15k Hz	5/32	90 dB(A) RMS	UHF	N/A	max. 100 mW (50 mW, ±2dB on delivery)	Twin receivers in one rackspace
Sensaphonics 3DAA-WL1; www.sensaphonics.com	stereo	20-16k Hz	N/A	80 dBA	*	N/A	N/A	Active ambient system
Sensaphonics 3DAA-WL2	stereo	20-16k Hz	N/A	80 dBA	*	N/A	N/A	Active ambient system
Sensaphonics 3DAA-HW1	stereo	20-16k Hz	N/A	80 dBA	**	N/A	N/A	Active ambient system
Sensaphonics 3DAA-HW2	stereo	20-16k Hz	N/A	80 dBA	**	N/A	N/A	
Shure PSM200; www.shure.com	mono	30-12k Hz	1/8	80 dBA	UHF	-109 dBm typical	30 mW	Complete system
Shure PSM400	stereo or MixMode™	50-12k Hz	1/16	80 dB	UHF	1 uV typical	50 mW	Complete system
Shure PSM600	mono, stereo or MixMode™	50-15k Hz	2/5	80 dBA	UHF	1.2 uV typical	100 mW	Complete system
Shure PSM700	mono, stereo or MixMode™	50-15k Hz	2/16	80 dBA	UHF	0.7 uV typical	100 mW	Complete system

Notes: All systems are wireless unless noted. All Sensaphonics 3-D systems employ patented 3-D Active Ambient™ IEM System for controlled mixing of ambient and monitor signals via sealed earpieces.
 * for use with wireless IEM systems
 ** for use with hard-wired IEM systems