

Hearing Helper® Personal FM System, Model PFM R31

Description:

Maximize a student's ability to listen with the Personal FM R31 receiver from Williams Sound. The PFM R31 will ensure that everyone in the classroom can hear the speaker's message clearly and easily. Each receiver has a range of up to 150 feet when used with a T30 or T31 transmitter, and will operate up to 60 continuous hours. Versatile 3.5 mm jack allows for a variety of earphone and headphone options, or, equip it with a neckloop to make it compatible with most telecoil-equipped hearing aids.

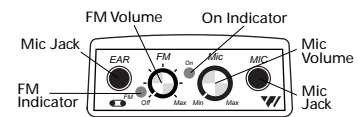
The PFM R31 features a sensitive environmental microphone: this gives the listener more flexibility on what they want to hear. By turning on the environmental mic, they can listen to a nearby classmate speak more clearly.

Applications:

- Classrooms • Job Consultation • Job Training • Tours • Group Meetings

PFM R31 FM Receiver:

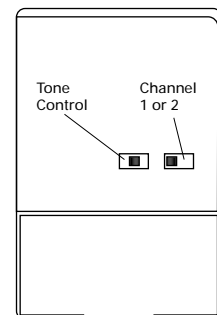
Dimensions:	3-5/8" L x 2-3/8" W x 7/8" H (92.1 mm x 60.3 mm x 22.2 mm)
Weight:	4.6 oz (130 g) with batteries
Color:	Royal blue, shatter-resistant polypropylene
Battery Type:	Two (2) AA 1.5 V non-rechargeable Alkaline batteries (BAT 001), 14 mA nom. current drain, 80 hours approx. life (OR) Two (2) AA 1.5 V NiMH rechargeable batteries (BAT 026), 14 mA nominal current drain, 50 hours per charge approx., recharges in 14-16 hours, uses CHG 200 Charger
FCC ID:	CNM R31
Operating Freq's:	Pre-tuned, field-tuneable, 72 MHz-76 MHz. Pre-set channels are E (72.9 MHz) and G (75.7 MHz).
FM Deviation:	Wide-band, 75 kHz, 75 µS de-emphasis
AFC Range:	± 120 kHz
Sensitivity:	4 µV at 12 dB Sinad with squelch defeated, squelches at 10 µV for min. 50 dB S/N ratio
Freq Response:	100 to 10 kHz, + 3 dB
Signal-to-Noise Ratio:	50 dB at 10 uV
Receive Antenna:	Integral with earphone cord
Audio Output:	35 mW, max. at 16 Ω
Output Connector:	3.5 mm mono phone jack
Squelch:	Set to turn off audio under weak or no signal condition
Carrier Detect Ind:	Red LED, turns on in the presence of a carrier
CONTROLS:	
Volume:	Rotary, On/Off/Volume
Tone:	3-way slide switch; Lo: flat response (20 Hz), Mid: -3 dB at 235 Hz, Hi: -3 dB at 730 Hz
Channel:	2-way slide switch; Ch 1 = 72.9 MHz, Ch 2 = 75.7 MHz
Indicators:	On/Off and FM
Mic Connector:	3.5 mm mono phone jack, supplies positive DC for Williams Sound electret mics
Microphone:	Plug mount electret, omnidirectional, with windscreen, 3.5 mm mono phone plug (MIC 014)
Mic Volume:	Rotary control
Note:	Specifications are electrical performance
Warranty:	5 years, parts and labor (90 days on accessories)



R31 Top



R31 Front



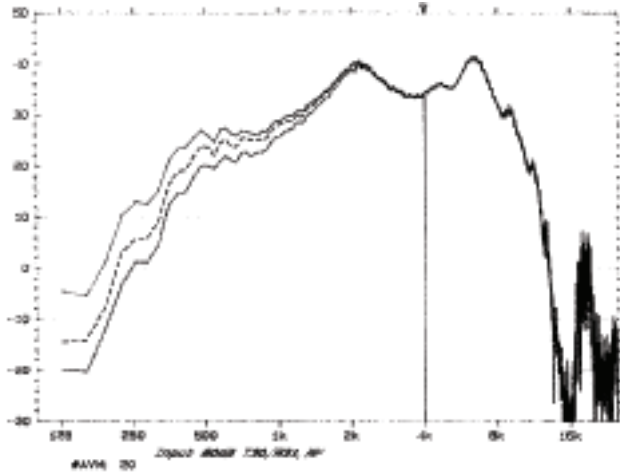
R31 Rear

NOTE: SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE!

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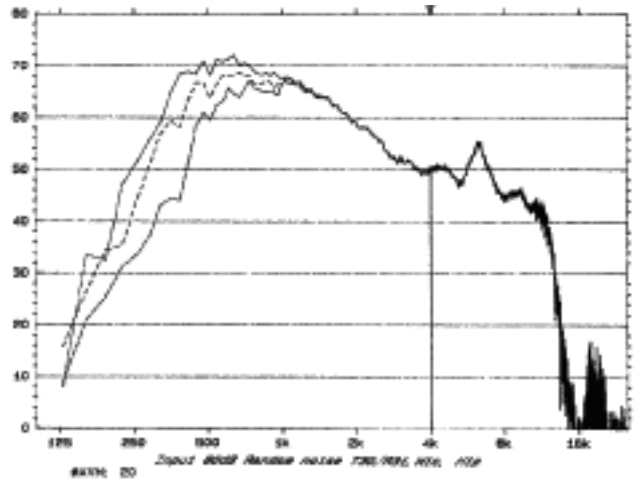
Acoustic Specifications:

ANSI 2.44 Test



FM Response (PFM R31)

Input:	80 dB random noise		
Device:	KEMAR mannequin with BTK 3550 tester		
Y:	80.0 dB	80 db	Main Y: 34.1 dB
X:	100 Hz + 8 OCT LOG		Main X: 4 kHz



Environmental Mic Response (PFM R31)

Input:	80 dB random noise		
Device:	KEMAR mannequin with BTK 3550 tester		
Y:	80.0 dB	80 db	Main Y: 50.2 dB
X:	100 Hz + 8 OCT LOG		Main X: 4 kHz

ANSI S3.22-1987 Test

FM Response (PFM R31)

Minimum Low Cut (Tone Set to Low)

Max. SSPL90:	135.8 dB at 500 Hz
HF Avg. SSPL90:	127.1 dB
HF Avg. Full On Gain:	37.7 dB at 60 dB in
Reference Test Gain:	38.1 dB
Response Limit:	80.1 dB
	F1=200 Hz, F2=8 kHz
Total Harmonic Dist:	3.6 % at 500 Hz
	3.9 % at 800 Hz
	2.2 % at 1600 Hz

Medium Low Cut (Tone Set to Mid)

Max. SSPL90:	135.5 dB at 600 Hz
HF Avg. SSPL90:	127.1 dB
HF Avg. Full On Gain:	36.8 dB at 60 dB in
Reference Test Gain:	37.3 dB
Response Limit:	79.4 dB
	F1=200 Hz, F2=8 kHz
Total Harmonic Dist:	3.4 % at 500 Hz
	3.4 % at 800 Hz
	2.2 % at 1600 Hz

Maximum Low Cut (Tone Set to Hi)

Max. SSPL90:	133.5 dB at 1000 Hz
HF Avg. SSPL90:	127.0 dB
HF Avg. Full On Gain:	35.4 dB at 60 dB in
Reference Test Gain:	35.8 dB
Response Limit:	78.01 dB
	F1=200 Hz, F2=8 kHz
Total Harmonic Dist:	1.1 % at 500 Hz
	2.7 % at 800 Hz
	2.1 % at 1600 Hz

Environmental Mic Response (PFM R31)

No Tone Modification

Max. SSPL90:	134.8 dB at 500 Hz
HF Avg. SSPL90:	126.4 dB
HF Avg. Full On Gain:	40.9 dB at 60 dB in
Reference Test Gain:	40.8 dB
Response Limit:	81.1 dB
	F1=200 Hz, F2=8 kHz
Total Harmonic Dist:	1.1 % at 500 Hz
	1.1 % at 800 Hz
	0.3 % at 1600 Hz

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Bid Specs:

Not Currently Available

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