

Hearing Helper™ Personal FM Receiver • 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, and will operate up to 80 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 which 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

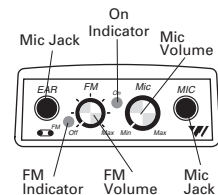
PFM R31 FM Receiver:

| | |
|------------------------|---|
| 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 |
| 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 |
| Approvals: | FCC, WEEE |
| Warranty: | 5 years, parts and labor** |

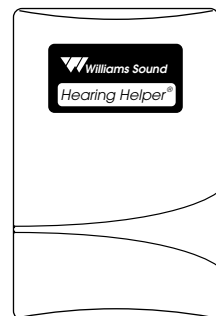
*DISCLAIMER: FCC RULES LIMIT USE OF THIS EQUIPMENT TO AUDITORY ASSISTANCE FOR THE HANDICAPPED.

**90 days on accessories.

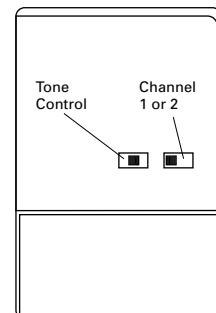
NOTE: SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE!



R31 Top



R31 Front



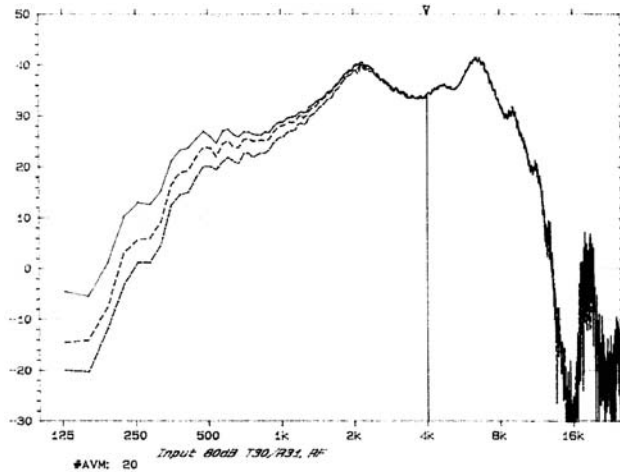
R31 Back

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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

Contact:

United States

Williams Sound Corp.
10321 W. 70th Street
Eden Prairie, MN 55344-3446
Ph: 800-328-6190 / 952-943-2252 / FAX: 952-943-2174
Email: info@williamssound.com
Web: www.williamssound.com

Canada

Thorvin Electronics
2861 Sherwood Heights Dr. Units 36-37
Oakville, ON L6J-7K1 Canada
Ph: 800-323-6634 / 905-829-3040 / FAX: 905-829-4196
Web: www.thorvinelectronics.com

Asia, Australia, Latin America, Middle East, South Africa

International Sales Department
Williams Sound Corp.
10321 W. 70th Street
Eden Prairie, MN 55344 USA
Phone: +1 952 224 7791
Fax: +1 952 943 2174
Email: info@williamssound.com
Web: www.williamssound.com

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