

Hearing Helper™ Personal FM System • Model PFM 350



Description:

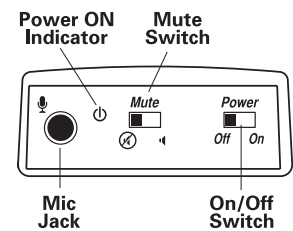
Maximize a student's ability to listen with the Personal FM System 350 from Williams Sound. Personal FM systems eliminate background noise and other distractions, and ensure that the speaker's message is heard by everyone in the room. It's perfect for classrooms, job training, consultation and more. Portable, no wire, no hassle. Each PFM 350 system has a range of up to 150 feet, and will operate up to 60 hours at one time. Versatile 3.5 mm jack allow for a variety of earphone and headphone options, or equip it with a neckloop and it is compatible with most telecoil-equipped hearing aids. The PFM 350 includes an R31 receiver, which 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 T32 FM Transmitter:

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:	4.4 oz (125 g) with battery
Color:	Royal blue, shatter-resistant polypropylene
Battery Type:	Two (2) AA 1.5 V non-rechargeable Alkaline batteries (BAT 001), 70 mA nominal current drain, 30 hours approx. life (OR) Two (2) AA 1.5 V NiMH rechargeable batteries (BAT 026), 70 mA nominal current drain, 20 hours per charge approx., recharges in 14-16 hours, uses CHG 200 or CHG 1600 Charger
Operating Freq's:	Selectable, 16 channels, 72.1 – 75.9 MHz, internal rotary switch
Stability:	± .005%, frequency synthesized, crystal reference, PLL
Modulation:	Wide-band FM, 75 kHz pk, 75 µS pre-emphasis
RF Output:	8000 µV/m at 30 m, max., 40 mW typical
Freq Response:	200 to 10 kHz, + 3 dB at 1% max. THD
Signal-to-Noise Ratio:	55 - 60 dB, with R31 or R32 Receiver
Microphone Gain Control:	45 dB maximum, 18 dB minimum
Transmit Antenna:	Integral with 39" microphone cord
Microphone:	Electret type, 39" cord, 3.5 mm mono phone plug
Controls:	On/Off switch, slide-type; Microphone Mute Switch, slide-type; Compression Selector 1:1 or 2:1 with internal selectable jumper
Mic Connector:	3.5 mm mono phone jack
Compatible Receivers:	PPA R35, PFM R31, PFM R32
Approvals:	FCC, Industry Canada, RoHS, WEEE
Warranty:	5 years, parts and labor (90 days on accessories)
Note:	FCC regulations, section 15.21, requires the user to comply with the rules of transmitter operation. Any changes or modifications made by the user not expressly approved for compliance may result in the loss of all privileges and authority to operate the equipment.



T32 Top



T32 Front

NOTE: SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE!

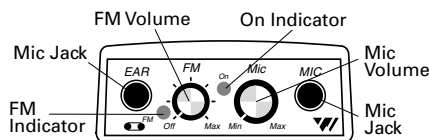
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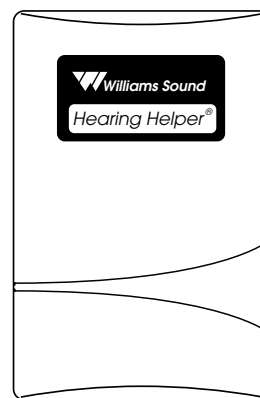
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PFM R31 FM Receiver:

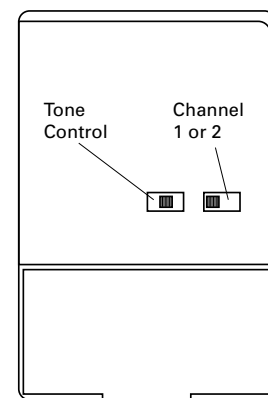
Dimensions:	3-5/8" L x 2-3/8" W x 7/8" H (92.1 mm x 60.3 mm x 22.2 mm)
Weight:	4.6 oz (130 g) with batteries
Color:	Royal blue, shatter-resistant polypropylene
Battery Type:	Two (2) AA 1.5 V non-rechargeable Alkaline batteries (BAT 001), 14 mA nom. current drain, 80 hours approx. life (OR) Two (2) AA 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 Back

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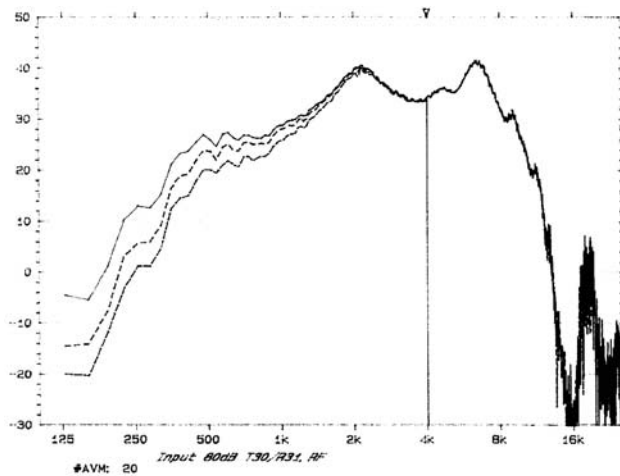
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Acoustic Specifications:

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

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

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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

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 and Mexico

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

South America

DPTech
SIA Trecho 3/4 Lote 335 2°. Andar
71200-030 Brasília, DF
BRAZIL
Ph: (5561) 361-1384
Fax: (5561) 361-0948
Web: www.dpotech.com.br
Email: ws@dpotech.com.br

Europe and Asia

International Sales Department
Williams Sound Corp.
10321 W. 70th Street
Eden Prairie, MN 55344 USA
Phone: +1 952 224 7791 or +1 651 493 2578
Fax: +1 952 943 2174
Email: doreeni@williamssound.com

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