

Water-resistant Family

Rion Hearing Instruments

HB-37 Series

Model HB-37S/HB-37T



- **SMT Circuit Design**
increases product reliability much higher
- **Water-resistant Technology**
minimized damage of circuit due to moisture invasion

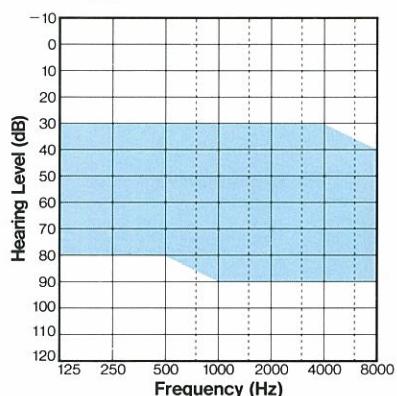
▼HB-37S

- Noise Suppressor (Low Frequency Reduction, S position of the O-S-M switch) can reduce the low frequency consisting of the main parts of noises.
- Maximum Output Power Control (MOP)
- Low-cut Frequency Control

▼HB-37T

- Telephone Coil is effective for clear sound reception over the telephone or in the places equipped with a loop system; churches, theaters or auditoriums.
The T position of the O-T-M switch is for induction coil.
- Maximum Output Power Control (MOP)
- Low-cut Frequency Control

Fitting Guide



TO CREATE A NEW WORLD

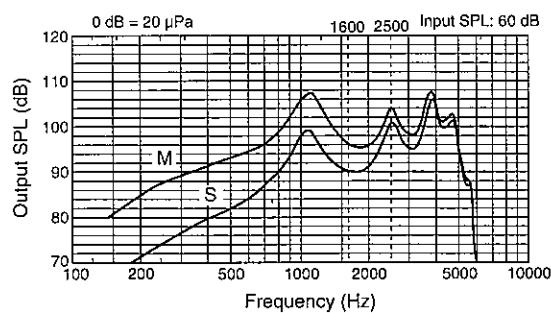
 **RION CO., LTD.**

TECHNICAL DATA (According to ANSI Standard S3.22 1987)

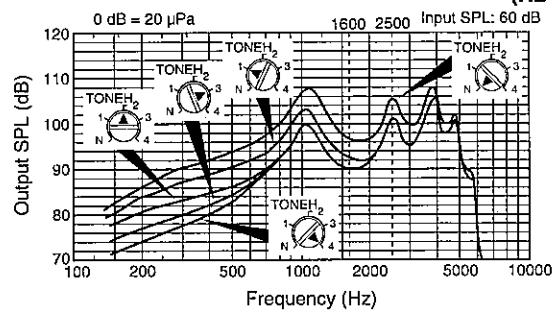
Model	HB-37S	HB-37T
Maximum SSPL90	125 dB	
HFA-SSPL90	120 dB	
HFA-full-on gain	52 dB	
Reference test gain	42 dB	
Frequency range	160 Hz to 5800 Hz	140 Hz to 6000 Hz
Equivalent input noise level	25 dB	
Total harmonic distortion	800 Hz: 1.7%, 1600 Hz: 1.1%	
Induction coil sensitivity (at 10 mA/m)	NO	110 dB
Operating switch	O-S-M	O-T-M
Output limiting control	MOP, range 10 dB (continuous)	
Tone control	NO	TONE H, N-4
Low frequency reduction	S	NO
Battery type, Supply voltage	PR-44 or A675HP, 1.3 V	
Battery current, life	1.25 mA, 420 h	1.38 mA, 380 h
Dimensions	3.9 × 1.42 × 0.88 cm	
Weight (excluding battery)	5 g	

(Typical value)

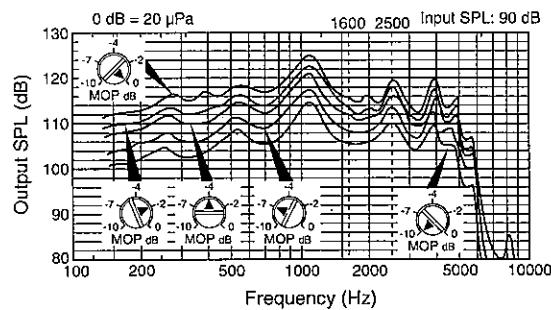
● Frequency response curve (HB-37S)



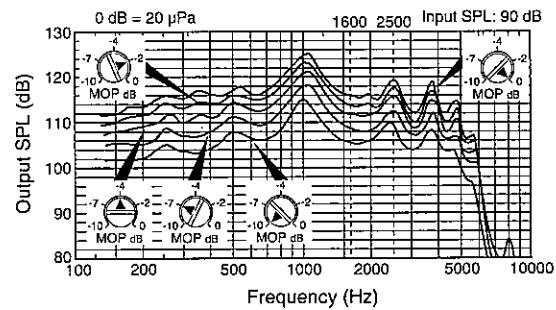
● Frequency response curve and effect of tone control (HB-37T)



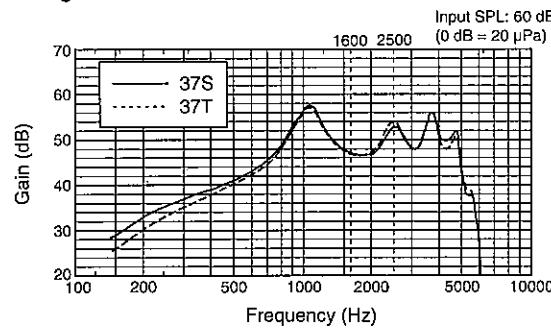
● SSPL90 curve and effect of output limiting control (HB-37S)



● SSPL90 curve and effect of output limiting control (HB-37T)



● Full-on gain curve

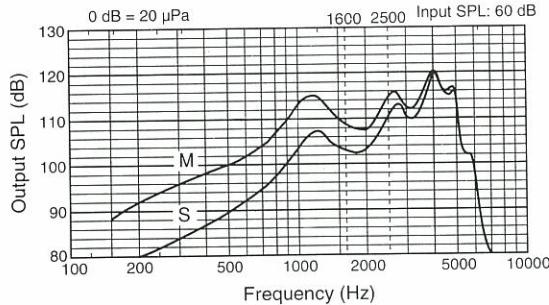


TECHNICAL DATA (According to IEC Standard Pub. 118-0 1983)

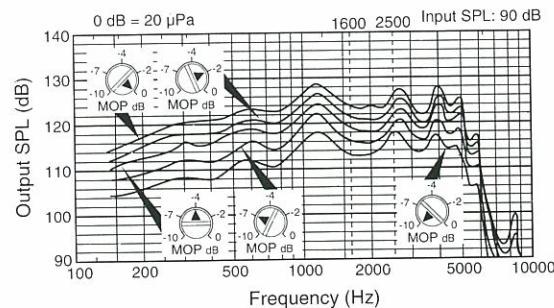
Model	HB-37S	HB-37T
Reference test frequency	1600 Hz	
OSPL ₉₀	500 Hz	124 dB
	Peak	122 dB
Full-on acoustic gain	54 dB	
Equivalent input noise level	29 dB	
Total harmonic distortion	800 Hz: 5%, 1600 Hz: 10%	
Induction coil sensitivity (at 1 mA/m)	NO	88 dB
Operating switch	O-S-M	O-T-M
Output limiting control	MOP, range 10 dB (continuous)	
Tone control	NO	TONE H,N-4
Low frequency reduction	S	NO
Battery type, Supply voltage	PR-44 or A675HP, 1.3 V	
Battery current, life	1.25 mA, 420 h	1.38 mA, 380 h
Dimensions		3.9 × 1.42 × 0.88 cm
Weight (excluding battery)		5 g

(Typical value)

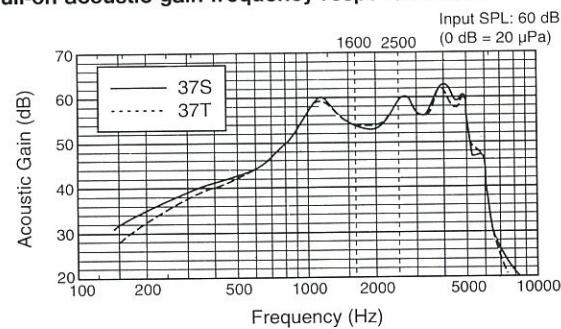
● Basic frequency response curve (HB-37S)



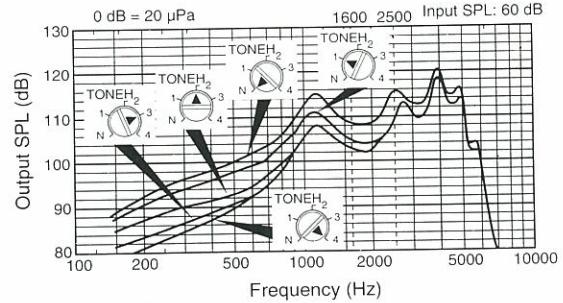
● OSPL₉₀ curve and effect of output limiting control (HB-37S)



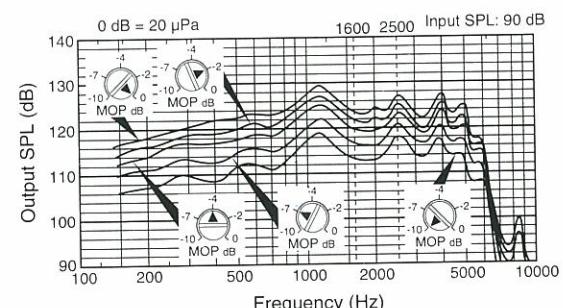
● Full-on acoustic gain frequency response curve



● Basic frequency response curve and effect of tone control (HB-37T)



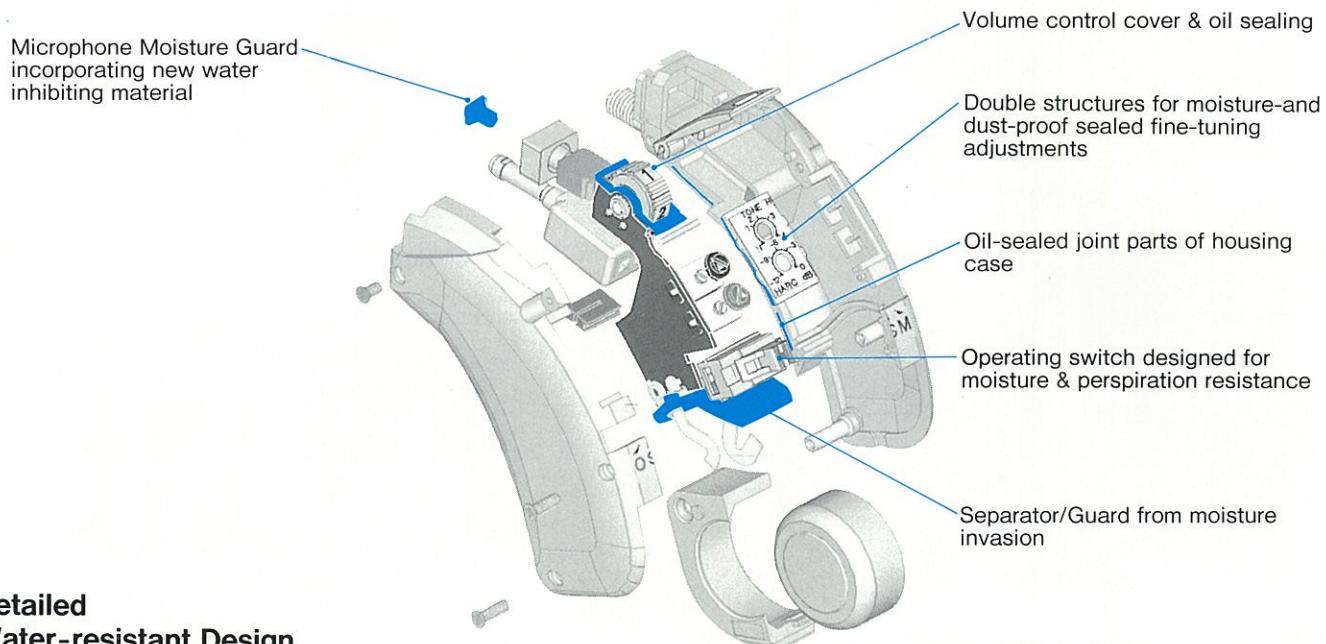
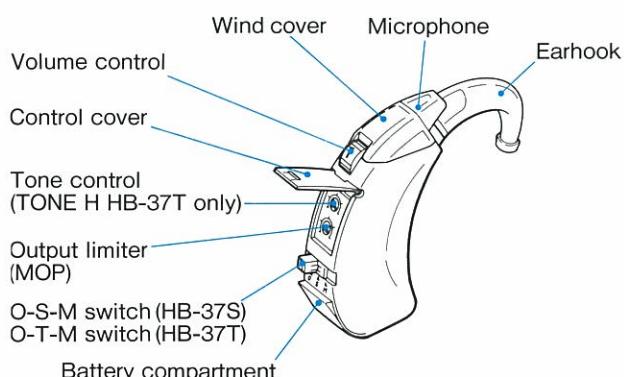
● OSPL₉₀ curve and effect of output limiting control (HB-37T)



Water-resistant

Meticulous engineering techniques have been well established since introduction of the world's most water-resistant hearing instrument, Model HB-35PT. Some of Rion's original techniques have been now applied to all new Rion's behind-the-ear instruments as a water-resistant family.

● Parts and Controls



Detailed Water-resistant Design

Specifications subject to change without notice.



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