Rio™ Hearing Instrument

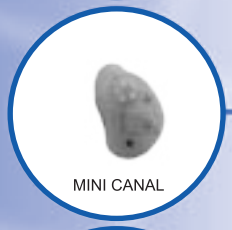
TECHNICAL INFORMATION

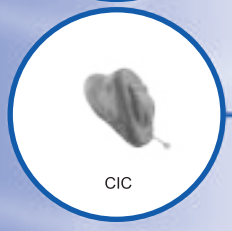
AVAILABLE MODELS:


FULL SHELL


HALF SHELL


CANAL


MINI CANAL


CIC

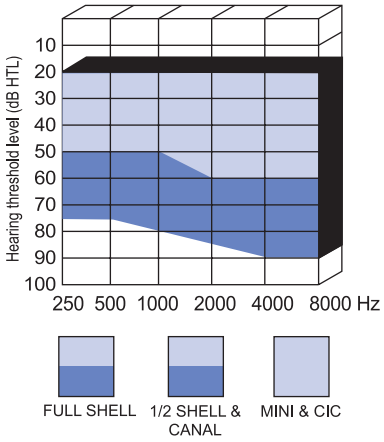
FEATURES

- The clarity of 100% digital signal processing
- Flexible function without circuit change through "Digital-by-Design" potentiometer options
- Circuit function options include:
  - AGC-O for maximum comfort with high input levels
  - AGC-I for appropriate amplification with mild and moderate input levels
  - Linear function
- Low Frequency control standard on all instruments; HF and Gain controls optional
- Extended fitting range with higher gain levels for Half Shell and Canal hearing instruments
- Power matrix available (128/65)
- Microphone Noise Reduction
- Directional Microphone (optional)
- Telecoil (optional)
- Low battery beep signal
- Available in all custom shell sizes

FITTING APPLICATION

- Mild to severe hearing losses
- Flat, sloping or high frequency losses

PURE TONE AUDIOGRAM



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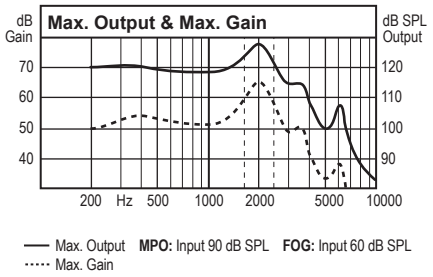
Longwood, FL. 32750

Electone® INC. 800-432-7483 • 407-831-2555

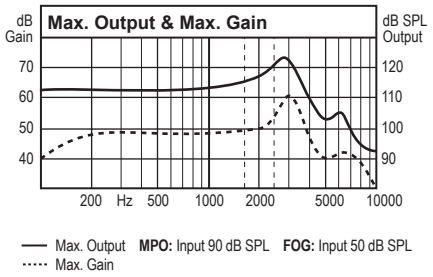
DATA CURVES (ANSI S3.22-1996)

FULL SHELL



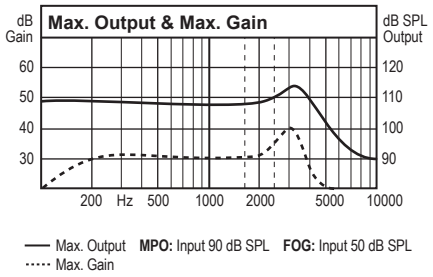
Max. Output **MPO:** Input 90 dB SPL **FOG:** Input 60 dB SPL
Max. Gain

1/2 SHELL & CANAL



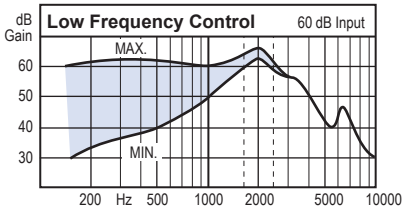
Max. Output **MPO:** Input 90 dB SPL **FOG:** Input 50 dB SPL
Max. Gain

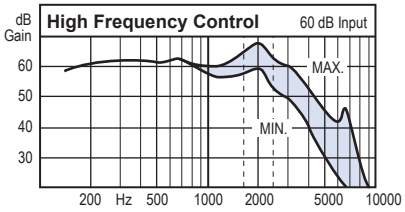
MINI & CIC

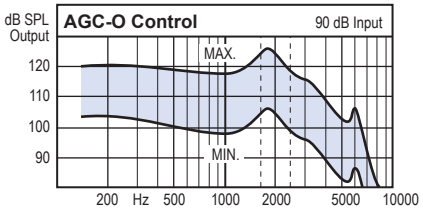


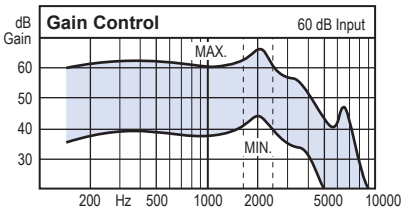
Max. Output **MPO:** Input 90 dB SPL **FOG:** Input 50 dB SPL
Max. Gain

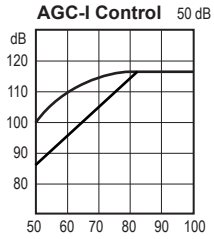
PERFORMANCE CURVES (ANSI S3.22-1996)







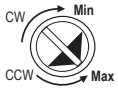




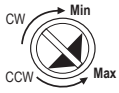
PERFORMANCE DATA & POTENTIOMETER REFERENCE

	FULL SHELL	1/2 SHELL & CANAL	MINI & CIC
Maximum output	128 dB	123 dB	113 dB
HF average SSPL 90	122 dB	116 dB	107 / 109 dB
Full on peak gain	65 dB	60 dB	40 dB
HF average full on gain	59 dB	53 dB	36 / 34 dB
Frequency range	200-8000 Hz	200-8000 Hz	200-8000 Hz
Harmonic distortion at 500 Hz Max.	8%	8%	8%
at 800 Hz Max.	8%	8%	8%
at 1600 Hz Max.	8%	8%	8%
Equivalent input noise level Max.	30 dB	30 dB	33 dB
Battery current drain	0.90 mA	0.65 mA	0.60 mA
Battery life	322 Hrs. (13 Zinc-Air)	246 Hrs. (312 Zinc-Air)	150 Hrs. (10A Zinc-Air)

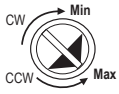
Measurement conditions are in accordance with the test procedures of the Acoustic Society of America Standard for Specifications of Hearing Aid Characteristics. (ANSI S3.22-1996). All the above specifications are subject to change without prior notification.



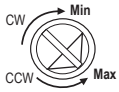
Low Frequency Control
- Blue potentiometer
- Variable up to 21 dB at 500 Hz



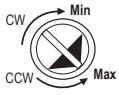
AGC-O Control
- Gold potentiometer
- Variable up to 18 dB



AGC-I Control
- Red potentiometer
- Gain varies up to 15 dB with 50 dB input



Gain Control
- White potentiometer
- Variable up to 22 dB



High Frequency Control
- Yellow potentiometer
- Variable up to 13 dB at 4000 Hz