

# Curve Hearing Instruments



## Curve: Where Art Meets Science

Curve, with BluWave Signal Processing, is a hearing solution that outperforms all others in its class, bringing together more clarity, greater directionality and better speech audibility in a variety of environments.

# Curve™

{ with **BluWave™** SP }

# Curve Hearing Instruments

m7

CURVE™<sub>m7</sub>

Top performance where it matters most

This flagship device performs where it matters most, bringing together clarity, directionality and speech audibility in a variety of environments. Its best-in-class features are complimented with patient-friendly Voice Indicators, Self Check diagnostics and patient Reminders. Enhanced fitting features enable infinite precision with Integrated Real Ear Measurement, along with its time-saving Auto Path feature.

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m5

CURVE™<sub>m5</sub>

Solid performance inside and out

Designed to react to a range of sound environments, the Curve m5 features the best-in-class Active Feedback Intercept as well as Directional Speech Detector, Data Log, Environmental Adaptation and Integrated Real Ear Measurement. Additional features such as Automatic Telephone Response, multiple programs and Indicators make it a robust mid-level instrument.

# Curve Reference Guide

Maximum Matrix

FEATURES	m7	m5
RIC 40 Gain	110/40	110/40
RIC 50 Gain	115/50	115/50
Channels	8	8
Bands	12	10
Memories	4 Standard	4 Standard
Active Feedback Intercept	Off, Adaptive (default), Static	Off, Adaptive (default), Static
Environment Detection	Acoustic Signature (Quiet, Noise, Speech in Noise, Mechanical Sounds, Wind)	Environmental Adaptation (Quiet, Wind and Other Sounds)
Directional Speech Detector	Dynamic Directional Based on KEMAR	Dynamic Directional Based on KEMAR
Data Log	Standard	Standard
Integrated Real Ear	Standard	Standard
Self Check	Standard	NA
Reminder	Standard	NA
Dynamic Indicators	Voice and Tone	Tone
Telephone	Automatic Telephone Response	Automatic Telephone Response
Power-on Delay	Standard	Standard
Maximum Output	Up to 22 dB Reduction in 2 dB Steps (range varies by channel)	Up to 22 dB Reduction in 2 dB Steps (range varies by channel)
Compression Threshold	36 dB Range in 4 dB Steps	36 dB Range in 4 dB Steps
Compression Ratio	1:1 – 3:1 (range varies by channel)	1:1 – 3:1 (range varies by channel)

Features

Compression Characteristics

# Curve Technical Specifications

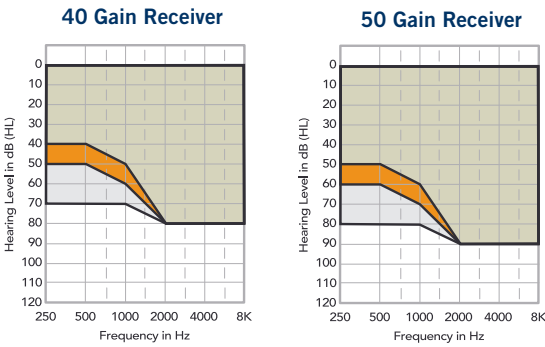
m7 | m5 Series

Curve is a hearing solution that performs where it matters most, bringing together clarity, directionality and speech audibility in a variety of environments.

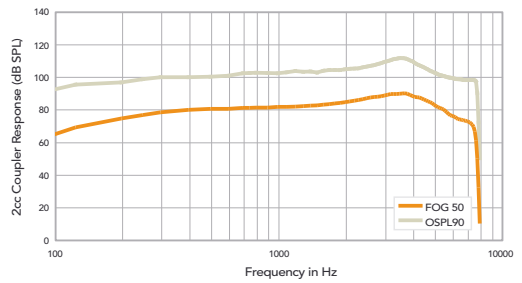


RIC

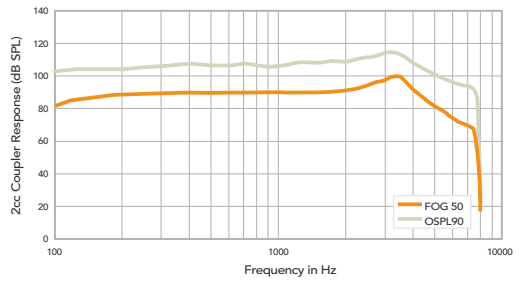
## Curve Fitting Ranges



Curve with open earbud (tan), occluded earbud (orange) and custom occluded earmold (gray) fitting ranges.



OSPL90 (tan) and Full-On Gain (orange) curves for Curve at 110/40.



OSPL90 (tan) and Full-On Gain (orange) curves for Curve at 115/50.

## Measurement Conditions and Recommendations

The data for Curve are obtained and performance is expressed according to ANSI S3.22 (2003), IEC 60118-7 (2005) and IEC 60118-0 (1983) with Amendment 1 (1994-01). The Micro-Tech proprietary Real Time Analyzer and the Micro-Tech Automated Design Verification Test System comprise the basic test equipment. Data may be subject to change with product refinement.

Because of the adaptive signal processing capabilities of Curve hearing instruments, the hearing instrument must be set to test mode to compare the actual performance of the hearing instrument with these specifications. Curve hearing instruments may be set to test mode with Inspire OS by reading the hearing aid and selecting the “Hearing Aid Test” screen from the menu on the left side of the Inspire OS window, then selecting the “Full On Gain” button.

RF IMMUNITY LEVEL: These hearing instruments have a cell phone immunity rating of M4. For your cell phone to be compatible with these hearing instruments, the cell phone needs an immunity rating of M1 or higher. Please consult your cell phone specifications for your cell phone immunity rating.

# Curve ANSI/IEC Data

## m7 | m5 Series

RIC (Receiver-In-The-Canal)					
		40 Gain Receiver		50 Gain Receiver	
Measurement	ANSI	IEC	ANSI	IEC	
Peak OSPL90 (dB SPL)	110	122	115	126	
HFA OSPL90 (dB SPL)	105	NA	109	NA	
RTF OSPL90 (dB SPL)	NA	112	NA	118	
Peak Gain (dB)	40	52	50	62	
HFA Full-On Gain (dB)	36	NA	43	NA	
RTF Full-On Gain (dB)	NA	44	NA	52	
Reference Test Frequency (kHz)	NA	1.6	NA	1.6	
HFA Frequencies (kHz)	1.0, 1.6, 2.5	NA	1.0, 1.6, 2.5	NA	
Frequency Range (Hz)	200 - 7600	NA	200 - 7100	NA	
Reference Test Gain (dB)	28	36	32	41	
Harmonic Distortion					
500 Hz	< 1%	< 2%	< 2%	< 3%	
800 Hz	< 1%	< 2%	< 2%	< 3%	
1600 Hz	< 1%	< 2%	< 2%	< 3%	
Equivalent Input Noise (dB SPL)	25	30	25	30	
Attack and Release Time (ANSI/IEC) – Test Mode					
Attack Time (ms)	25	25	20	20	
Release Time 0.1 (ms)	57	57	50	50	
Release Time 2.0 (ms)	57	57	50	50	
Battery Current (mA)	1.3-1.4	1.3-1.4	1.4-1.9	1.4-1.9	
Idle Current (mA)	1.2	1.2	1.3	1.3	
Estimated Battery Life for 16-Hour Day					
312 Zinc Air (days)	8 - 9	8 - 9	6 - 8	6 - 8	

# Curve Color Guide

m7 | m5 Series



*Sterling*



*Champagne*



*Slate*



*Pearl*



*Bronze*



*Onyx*