



Television

Solution Setup



The configuration module is implemented in the device and within companion apps, with the processing module integrated into the audio stack of the TV, enabling real-time audio adaptation.

CONFIGURATION

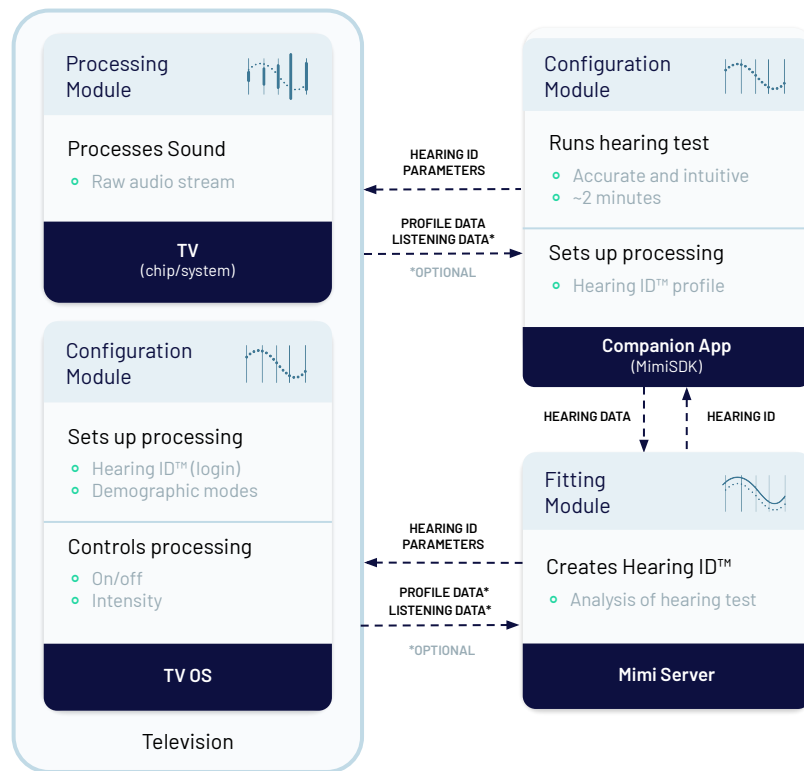
- **Hearing Test** measures the user's hearing ability through Mimi's intuitive and accurate hearing test
- **Hearing ID** a listener's hearing profile that enables sound personalization in all Mimi enabled devices
- **Demographic modes** age-based estimation of user hearing

FITTING

- **Data Analysis** informed by over 1 million hearing profiles, our server processes raw hearing data to generate results & the user Hearing ID™

PROCESSING

- **Audio processing** adapts sound to the unique hearing of the listener, with a biologically-inspired algorithm
- **Processing controls** allow users to set intensity and toggle on & off







Television

Platform Specs



App Integration		Configuration module 
Operating system	iOS	Android
Integration language	Swift (4.2, 5.0)	Kotlin (1.3.21)
Supported OS	Min. iOS 10.x	Min. API 21 / 5.0 Lollipop
Supported architectures	arm64, armv7, armv7s;	armeabi-v7a, arm64-v8a, x86, x86_64
Required permissions	Microphone access	Microphone access
SDK size	~11.4 MB	~7.2 MB
MimiSDK version	v2.x (for Xcode 10.x)	v2.x (for Android Studio 3.5)

TV Integration		Processing module 
Operating system	Android	Embedded Linux
Integration type	Android Audio Effect, and/or DSP offload	Shared/Static Library
Algorithmic latency	4.4ms (@44.1kHz)	
Parameter handling	C	C/C++ 11
Codecs	Independent of audio codecs	
Supported DSPs	Qualcomm Hexagon, Sigma Designs SX7, HiFi 3 Cadence	

*Reference figures from Mimi standard TV integration.

This document provides detailed insights into Mimi's technical specifications regarding a television integration.

The Mimi processing module can be ported to further platforms, with new solutions on the roadmap. Please contact sales@mimi.io for more details.