



Unitron quality tests: Moxi™ V-RT vs. 3 competitors

When making a purchase, we don't necessarily consider the consequences should a product break down.

This is especially true for hearing aids.

Hearing instrument users depend on—and expect—their devices to work well all the time. So if they do occasionally break down and stop working, 'annoyed' is an understatement. That's why at Unitron, we take the time to really put our devices to the test, ensuring hearing instrument users can count on them every day. Here, we'll illustrate the robustness of our hearing instruments by explaining the tests we use and directly comparing our devices to three of our competitors. In today's fast-paced tech landscape, we know how important high product quality is for our clients.

Putting Unitron hearing instruments to the test:

You may have heard of the Ingress Protection (IP) rating system for electronics. This rating is a measure of how well an electronic device stands up against dust and liquid exposure. We list our hearing devices as **IP68**—which is the highest score a device can receive in terms of dust and liquid resistance. But in fact, we go well beyond that, thanks to the time and resources we've put in to enhance our overall product quality.

We took receiver-in-canal (RIC) hearing instruments from three competitor brands, alongside Unitron Moxi V-RT—totalling 32 devices—and subjected them to harsh environments intended to simulate years of use across a variety of challenging situations. We then performed tests to understand the impact of this prolonged use on the hearing instruments.

IP68

rating for Unitron Moxi V-RT: highest level of dust and water resistance

3

top competitor brands challenged











32

hearing instruments put through the same quality trials

200

test hours in tough, real-world simulated conditions


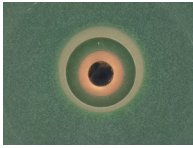
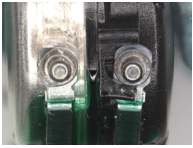

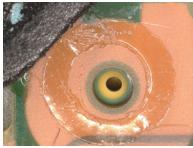


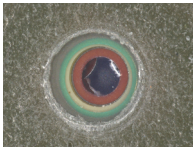


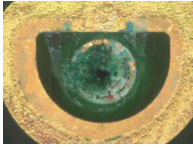

All 32 hearing instruments included in the experiment were placed in a large test chamber where they underwent a rigorous Mean Time to Failure test to assess longevity under extreme conditions. Each device was exposed to cycles of synthetic sweat spray, humidity condensation, and high-heat drying. After each cycle, the devices were cleaned, fitted with new receivers, and tested for listening, function, charging, and acoustics to rule out receiver-related failures. Over the span of 200 test hours, the hearing instruments were subjected to the following conditions:

Condition	Time (hours)	Temperature	Relative humidity
 Sweat spray		40°C	100%
 Humid drying			
 Dry drying		60°C	0%
 Condensation			100%
 Drying			0%

1 cycle = 5 tests, 10 hours total

Moxi V-RT competitor comparison

The values presented in this chart refer to the pass rate of devices tested. For example, 90% of Unitron Moxi V-RT devices tested passed testing of front microphone corrosion, whereas 0% of Competitor C's devices passed the same test.

Product	Form factor	Microphone robustness	Battery and charging performance	SDS robustness	Dead device	Ranking	Microphones	Charging pins
		Front microphone corrosion	Charging contact pins	Acoustical measure	Devaluation of total score relative to sample size		Photographed after 140 hours of testing	Photographed after 200 hours of testing
 Unitron Moxi V-RT	RIC	90%	100%	90%	0/10 dead devices	1		
 Competitor A	RIC	50%	0%	33%	2/6 dead	5		
 Competitor B	RIC	13%	0%	0%	1/8 dead	6		
 Competitor C	RIC	0%	0%	0%	7/8 dead	7		

Conclusion:

The Unitron Moxi V-RT ranked #1 overall, demonstrating the best performance across all key reliability metrics.

Moxi V-RT was the only product in the test with zero device failures (0/10 dead units), highlighting its exceptional product quality. The device showed strong robustness in critical areas, including 90% resistance to microphone corrosion, 100% durability of charging contact pins, and 90% maintenance of acoustical performance. Overall, Unitron Moxi V-RT clearly outperformed all other brands in both reliability and robustness. In contrast, competitors—particularly Brands B and C—showed significant vulnerabilities, including poor corrosion resistance, high failure rates, and compromised charging pin durability.



Unitron makes life vibrant with amazing hearing solutions designed to make the experience easy. Because everyone deserves to **Love the experience.**[™]