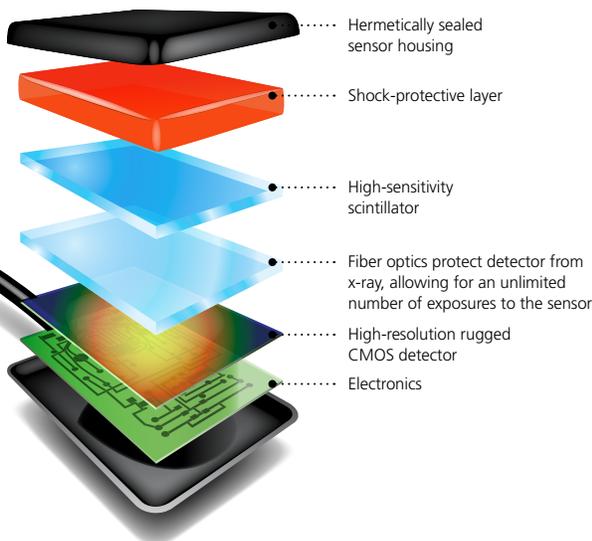


RVG Family



Good design is no accident

All Carestream Dental products are built to last—and RVG sensors are no exception. Thanks to rigorous testing, all RVG sensors have been designed to provide maximum durability and flexibility. Completely waterproof, the sensor can be safely submerged in disinfectant solution, and its shock-resistant casing and silicon padding offers protection from falls, bites, and other damage.



Tested for everyday use

Tucked away in a corner in the Carestream Dental building in Marne-la-Vallée, France is a unique lab created for the sole purpose of analyzing the robustness of the RVG sensors. Each responsible engineer tests all products in the RVG family to ensure they meet strict design standards for durability, cord flexibility, and submersibility.

What does durability mean to Carestream Dental? From an engineering and design perspective, it is the length of time an RVG sensor will serve its intended function over an anticipated range of typical operating conditions in a dental practice.

Safe, sound and superior

All of the sensor's elements work in perfect harmony to deliver the best image results, while its robust design ensures maximum durability and a long lifespan.



Worry-free disinfection

Waterproof sensor can be fully submerged in disinfectant solution for optimal infection control.



Built to last

The flexible and robust cable has been tested to support tens of thousands of torsions—the equivalent of five years of use.



Traction-resistant

The cable has been tested to support heavy tractions and forces, eliminating the need for a detachable cable.

How are RVG sensors tested?

To determine if RVG sensors meet our strict design standards, a team of engineers with a background in design and quality assurance conduct an extensive stress-testing process. As many as twenty tests are conducted to measure the durability of the sensors including:

- Flexion testing: Cable sturdiness is essential, and all RVG sensors are tested to ensure that they are able to withstand the equivalent of five years of use.* During the testing process, the sensor cable is exposed to literally tens of thousands of severe flexions at the back connection point on the sensor head to ensure cable durability.
- Submersibility testing: Sensors are immersed in water for 24 hours to ensure each sensor is both airtight and watertight, allowing for full submersion of the sensor.
- Force testing: RVG sensor cables are tested for strong torsions or forces, simulating the pulling of the sensor from a connection point, which may occur in day-to-day use. The cables are designed to withstand strong tractions, eliminating the need for a detachable or replaceable cable.
- Durability testing: Finally, keeping in mind that accidents and drops will happen, the sensors are dropped numerous times from human height onto a hard surface tens of times in a row. This tests the durability of the shock-resistant casing that shields the electronics, CMOS and fiber optics of the RVG sensors.

Is this the end of the testing?

No. In addition to design testing, Carestream Dental conducts quality assurance testing during the manufacturing process to make sure each RVG system meets stringent qualifications:

- Each sensor must receive a “pass” rating at EVERY step of the manufacturing process, beginning with the initial selection of each CMOS sensor and ending with the final release of the complete sensor.
- Once functionality testing is complete, hours of additional automated tests are performed to ensure that each individual sensor meets strict image quality specifications.
- Finally, each individual sensor must pass manual “human-eye” verification, where trained Carestream Dental employees verify the quality of the images acquired by each sensor.

Visit www.carestreamdental.com or call us today at **800.944.6365** for more information.