



## Logicon Caries Detector Software Fact Sheet

### Product Summary

Logicon Caries Detector Software is Carestream Dental's patented, computer-aided detection tool that is clinically proven to help dentists find more interproximal carious lesions than with traditional methods.<sup>1</sup> Logicon Caries Detector Software analyzes tooth density and demineralization patterns and highlights the decay sites on digital dental radiographs.

### Product Features and User Benefits

Patented and Proven Technology: Logicon Caries Detector Software is the only clinically validated software of its kind designed to detect interproximal caries on intraoral radiographs. A clinical study showed that Logicon Software detects up to 20% more interproximal caries on permanent teeth.<sup>1</sup> A separate study found that Logicon Caries Detector Software more than doubles clinicians' capabilities to detect early caries in the dentin.<sup>2</sup>

Caries Detection: Using a detection algorithm, Logicon Caries Detector Software automatically highlights possible abnormalities in the tooth's enamel and dentin on patients' digital dental radiographs. Results are displayed based on a database of histologically validated caries. Logicon Caries Detector Software extracts image features and correlates them with a database of known caries problems.

Industry-Leading Caries Detection with Exceptional Images: Exclusively designed to work with the high-quality images captured by Carestream Dental's RVG sensors, Logicon Caries Detector Software provides a more precise and efficient method of determining the presence of early caries than traditional methods like the visual examination of a radiograph or an oral examination.

Improved Diagnoses and Patient Communication: Logicon Caries Detector Software helps identify caries earlier and minimizes misdiagnoses of healthy teeth, saving time and improving treatment outcome. Findings can be shared with patients immediately, and the software's easy-to-understand display helps dentists better communicate patient conditions and treatment recommendations. The software's enhanced patient education leads to patients having more confidence and increases treatment acceptance.

Powerful Tools for Streamlined Analysis: Logicon Caries Detector Software features a region of interest (ROI) adjustment tool that automatically searches to find maximum caries depth, as well as a zoom tool that allows practitioners to focus on specific regions. Additionally, the software makes working with third parties easier, as information and screenshots can be quickly sent via the software's email function.

Minimal Training Required: Logicon Caries Detector Software is easy to learn and use, minimizing training time and improving practice productivity.

Availability: Logicon Caries Detector Software is only available for use with the RVG sensors.

<sup>1</sup>Gakenheimer, David C. "The Efficacy of a Computerized Caries Detector in Intraoral Digital Radiography." Journal of the American Dental Association 133 (2002): 883-890

<sup>2</sup>Tracy, Kyle D. "Utility and effectiveness of computer-aided diagnosis of dental caries." General Dentistry 59-2 (2011): 136-144

### **More Information**

For more information on Carestream Dental's innovative solutions or to request a product demonstration, call (800) 944-6365 or visit [www.carestreamdental.com](http://www.carestreamdental.com).

### **About Carestream Dental**

Carestream Dental provides industry-leading imaging, software and practice management solutions for dental and oral health professionals. With more than 100 years of industry experience, Carestream Dental products are used by seven out of 10 practitioners globally and deliver more precise diagnoses, improved workflows and superior patient care. For more information or to contact a Carestream Dental representative, call (800) 944-6365 or visit [www.carestreamdental.com](http://www.carestreamdental.com).

### **About Carestream Health**

Carestream Health is a worldwide provider of dental and medical imaging systems and healthcare IT solutions; X-ray film and digital X-ray systems for non-destructive testing; and advanced materials for the precision films and electronics markets.

For more information about the company's broad portfolio of products, solutions and services, please contact your Carestream Health representative or visit [www.carestream.com](http://www.carestream.com).

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