Logicon Caries Detector software is a unique and clinically proven tool for RVG imaging systems and CS Imaging software. As an optional add-on module for the RVG 6200, Logicon is designed to help you detect and treat interproximal caries at an early stage and promote minimally invasive treatment options. In fact, it is the only commercially available software approved by the FDA for computer-aided radiographic caries diagnoses.

With Logicon version 5.2, it only takes a few clicks to obtain a clear preview of a patient’s proximal caries. The software scans all of the proximal surfaces in a bitewing radiograph automatically so that you can then easily plan treatment by selecting PreScan results and making manual calculations on the same screen. You can even share the results with your patients to improve communication and increase treatment acceptance.

“Logicon caries detection software is truly amazing. Diagnosing interproximal caries is both an art and a science, and Logicon adds a lot more science to this diagnostic mix. I can predictably diagnose caries at an earlier stage and treat with minimal loss of tooth structure. More importantly, it keeps me from cutting into teeth where the decay is not yet into the dentin.”

BRADLEY A. DYKSTRA, DDS

2 Clinically measured true positive rate of 90% and true negative rate of 88%.
SPOT HARD-TO-FIND CARIES

Improve patient care
As an optional component of our RVG digital radiography systems, Logicon is a computer-aided detection tool built for dental professionals. By analyzing tooth density and demineralization patterns for interproximal caries, Logicon helps you search for caries and determine whether they exist in the enamel or dentin. The program also features powerful graphics and visual aids to engage patients and promote better communication—which in turn increases the likelihood of them accepting your treatment recommendations.

Maximum diagnostic confidence
Logicon works by analyzing shades of gray (far more than the human eye can perceive) and extracting caries-related image features to compare them with known caries problems. Through this process, the software automatically highlights any potential abnormalities on the patient’s digital radiograph and allows you to take a closer look at an area that may have otherwise been missed.

With just a few clicks, Logicon automatically scans all proximal surfaces in a bitewing radiograph.

90% success rate
In addition, a retrospective clinical study found the ability to detect early caries in dentin more than doubled when using Logicon software over traditional visual methods.

THE SCIENCE BEHIND LOGICON

How Logicon compares to the competition
Logicon uses physics-based technology to calculate measurements and provide results that are backed by science. From measuring the depth of the caries to outlining its location on an image, Logicon relies on historically proven data to determine whether dentinal decay is likely to be present.

Unlike other caries detection products, Logicon not only helps you identify caries by calculating the probability of decay, but it also recommends the most appropriate action for its findings. It even quantifies the decay so you can make more informed treatment recommendations. Best of all, since Logicon integrates seamlessly with RVG sensors and CS Imaging software, it is easy to implement it into your current workflow—no change required.

With the Logicon software, you can scan suspicious lesions, and it will blow you away with how it finds decay and how, upon preparation of the tooth, it is confirmed every single time.

JONATHAN GOLAB, DDS, PA

Probability of decay present with decision threshold
Density changes across decay site
Close up of decay pattern

The most impressive feature is Logicon software. You can scan suspicious lesions with it, and it will blow you away with how it finds decay and how, upon preparation of the tooth it is confirmed every single time.