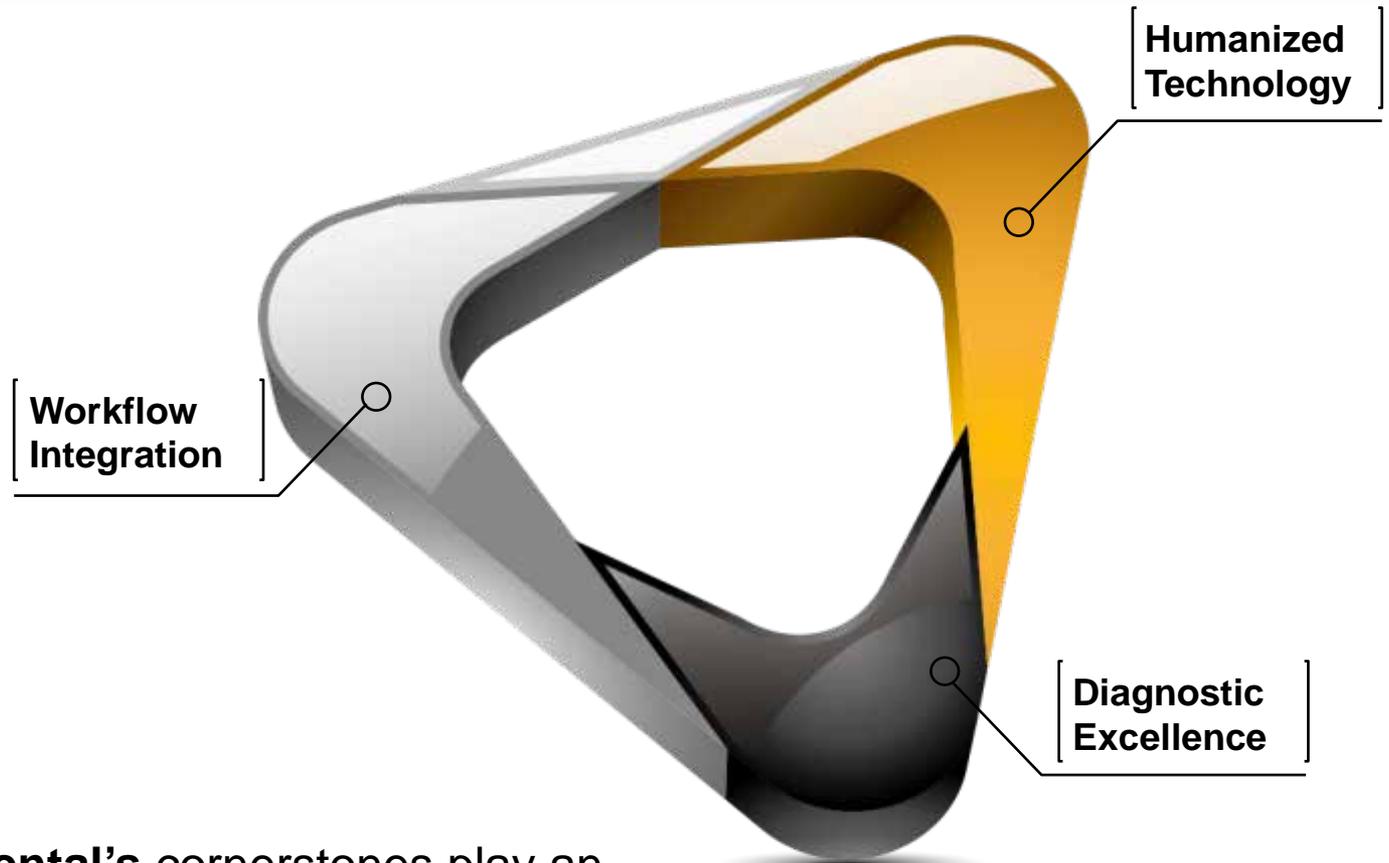


# RVG 6200 with the CS Adapt Module



LET'S REDEFINE **EXPERTISE**





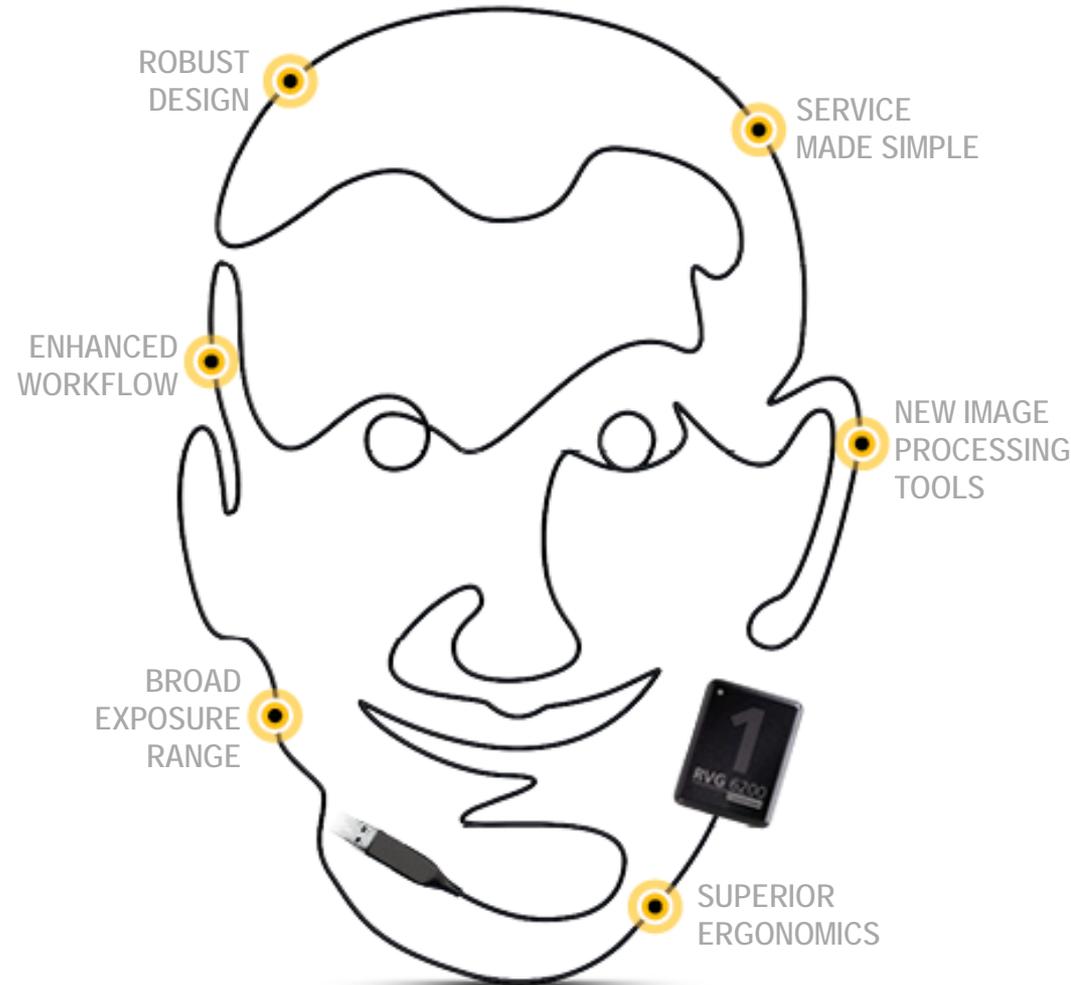
**Carestream Dental's** cornerstones play an important role in the design of the RVG 6200



# Technology shaped around you

Proven RVG technology,  
redesigned with you in mind

- Exceptional image quality
- New CS Adapt module
- Durable by design
- Improved ergonomics
- Enhanced workflow
- Easy-to-use imaging software
- Service made simple



**RVG 6200**

# **EXCEPTIONAL IMAGE QUALITY**

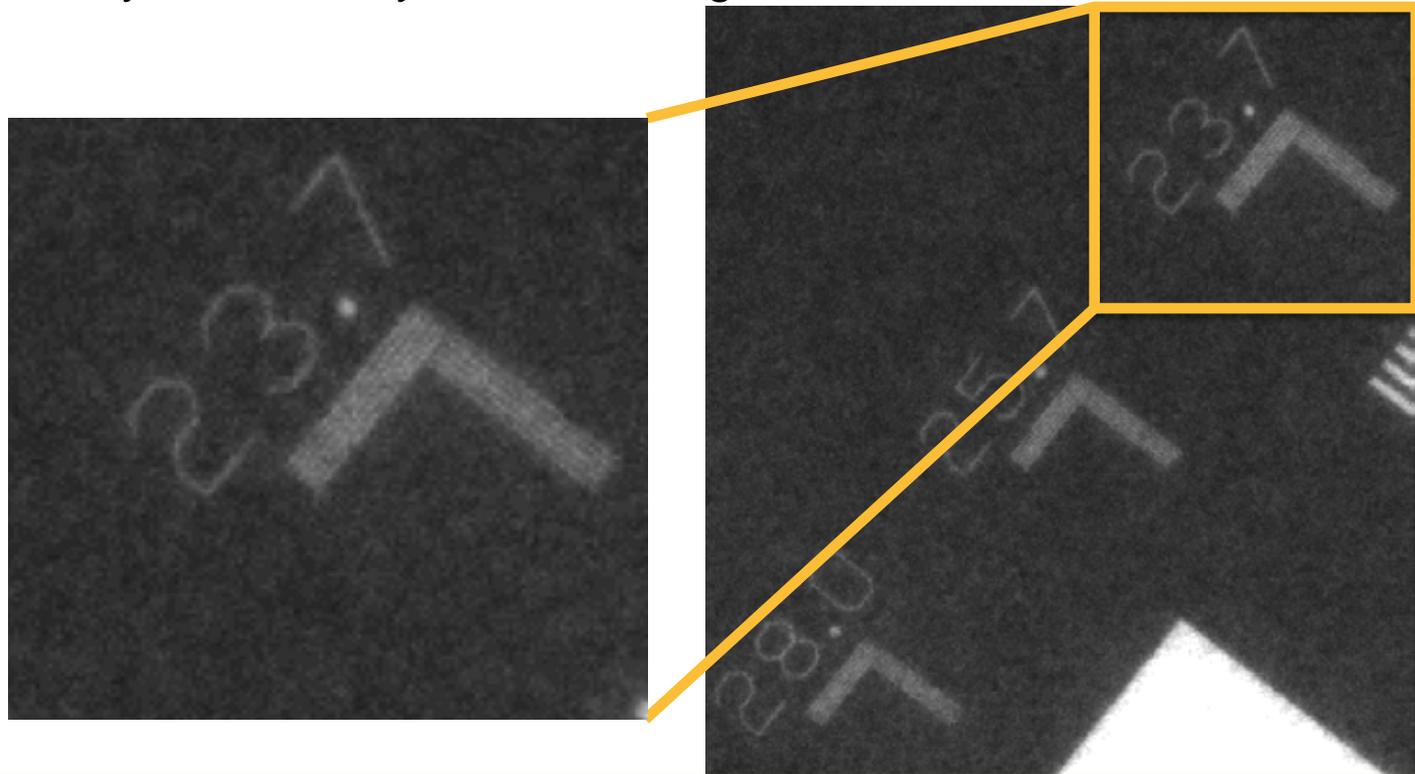


# Exceptional image quality



[ Diagnostic  
excellence ]

- True resolution 24 lp/mm
- Provides high image quality with maximum diagnostic precision
- Image quality equivalent to INSIGHT intraoral dental film
- Produces exceptionally detailed, crystal-clear images



**RVG 6200**  
**IMAGING SOFTWARE**  
**& CS ADAPT MODULE**



# Dental Imaging software



[ Humanized  
technology ]

- User friendly interface
- Each image can be quickly analyzed using simple and powerful diagnostic assistance tools
- Easy to share, print, import and export images as well as send via e-mail or with a viewer
- New CS Adapt module features 40 pre-sets in 10 filter-families
- INSIGHT and Ultra-speed filters help simplify the transition from film to digital





# RVG IMAGING SOFTWARE REDEFINED WITH YOU IN MIND

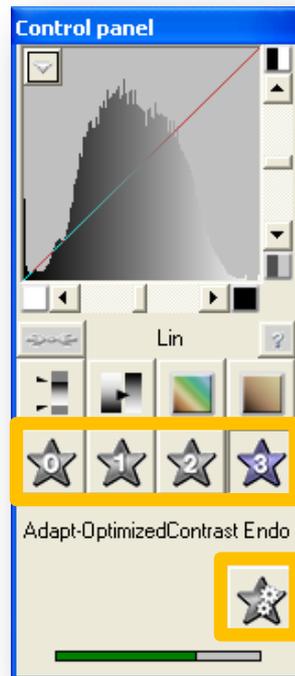




# CS Adapt module

## New Control panel

- Delivers the most sophisticated and powerful image processing filter pre-sets available
  - Four custom favorite filter options accessible with one click
  - Users can define favorite settings to suit their clinical needs



Four user-defined image pre-sets >

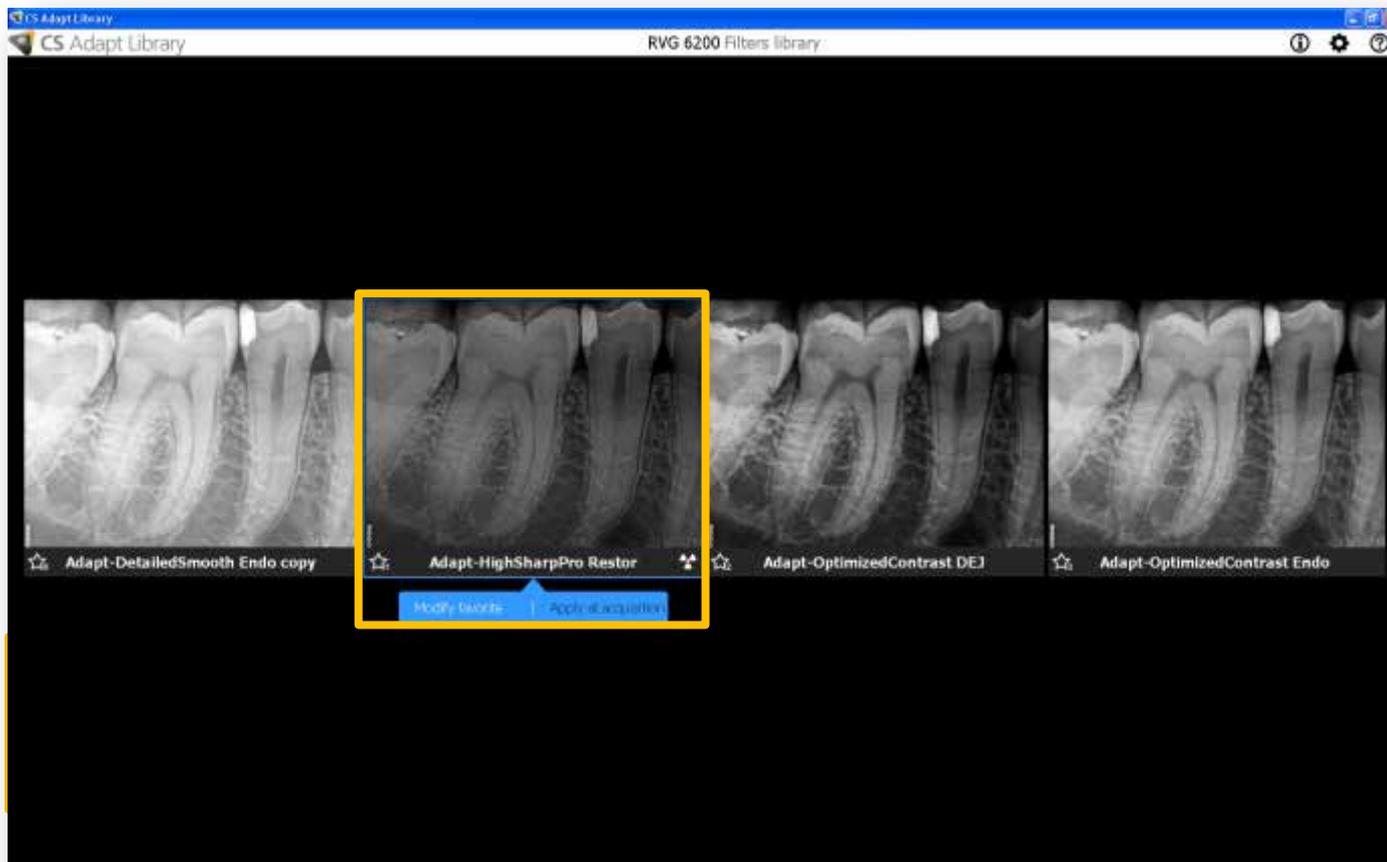
< Access to CS Adapt Library to define favorites



# CS Adapt module

## RVG 6200 Filters library

- RVG 6200 Filters Library allows user to select and modify up to 4 favorites
- Users can establish default setting to apply at acquisition

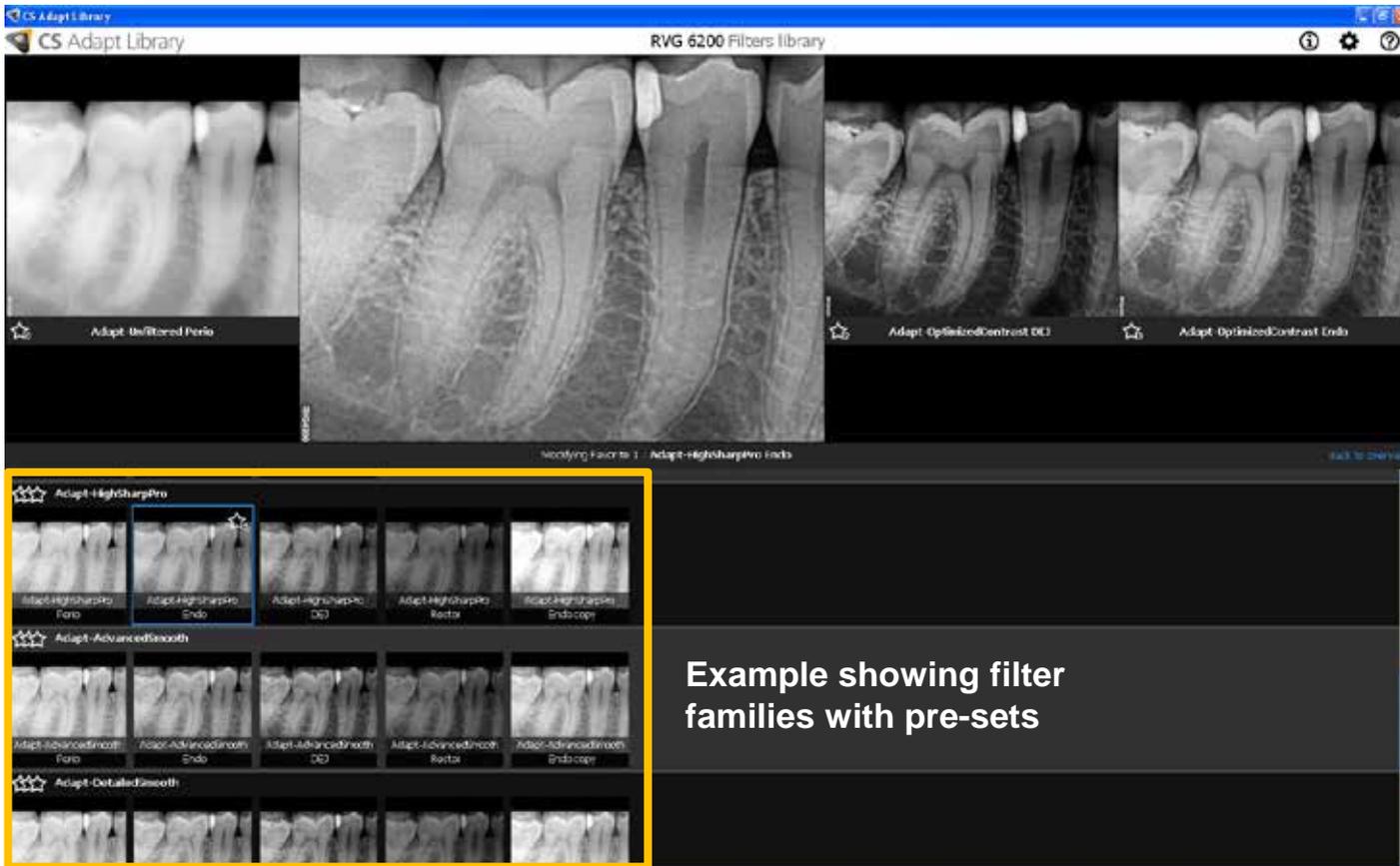




# CS Adapt module

## RVG 6200 Filters library

- CS Adapt RVG 6200 Filters Library offers 40 pre-sets stored in 10 filter families
- Filter families contain DEJ, endo, perio and restorative pre-sets

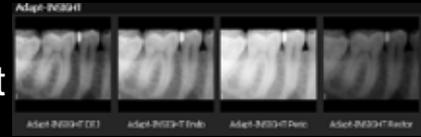


Example showing filter families with pre-sets

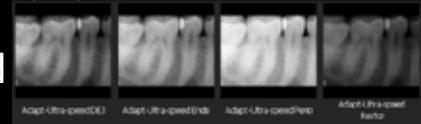
# CS Adapt module RVG 6200 Filters library



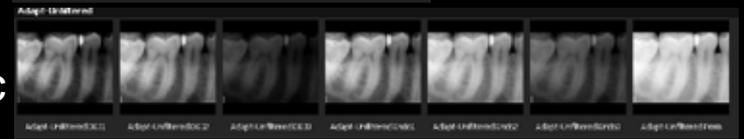
Insight



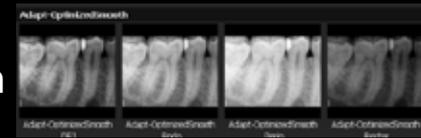
Ultra-speed



Anatomic



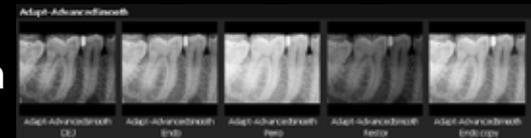
OptimizedSmooth



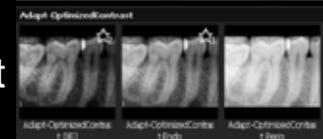
DetailedSmooth



AdvancedSmooth



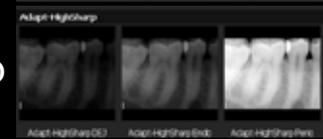
OptimizedContrast



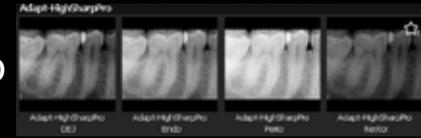
Contrast



HighSharp



HighSharpPro



# 7 Unfiltered Anatomic Pre-sets

A family of unfiltered options with gray level display optimization

**CS Adapt module  
RVG 6200 Filters library**



**Perio**

Unfiltered Perio



**Endo**

Unfiltered Endo 1



Unfiltered Endo 2



Unfiltered Endo 3



**DEJ**

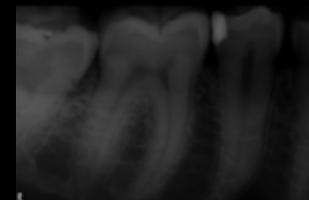
Unfiltered DEJ 1



Unfiltered DEJ 2



Unfiltered DEJ 3





# CS Adapt module

## RVG 6200 Filters library

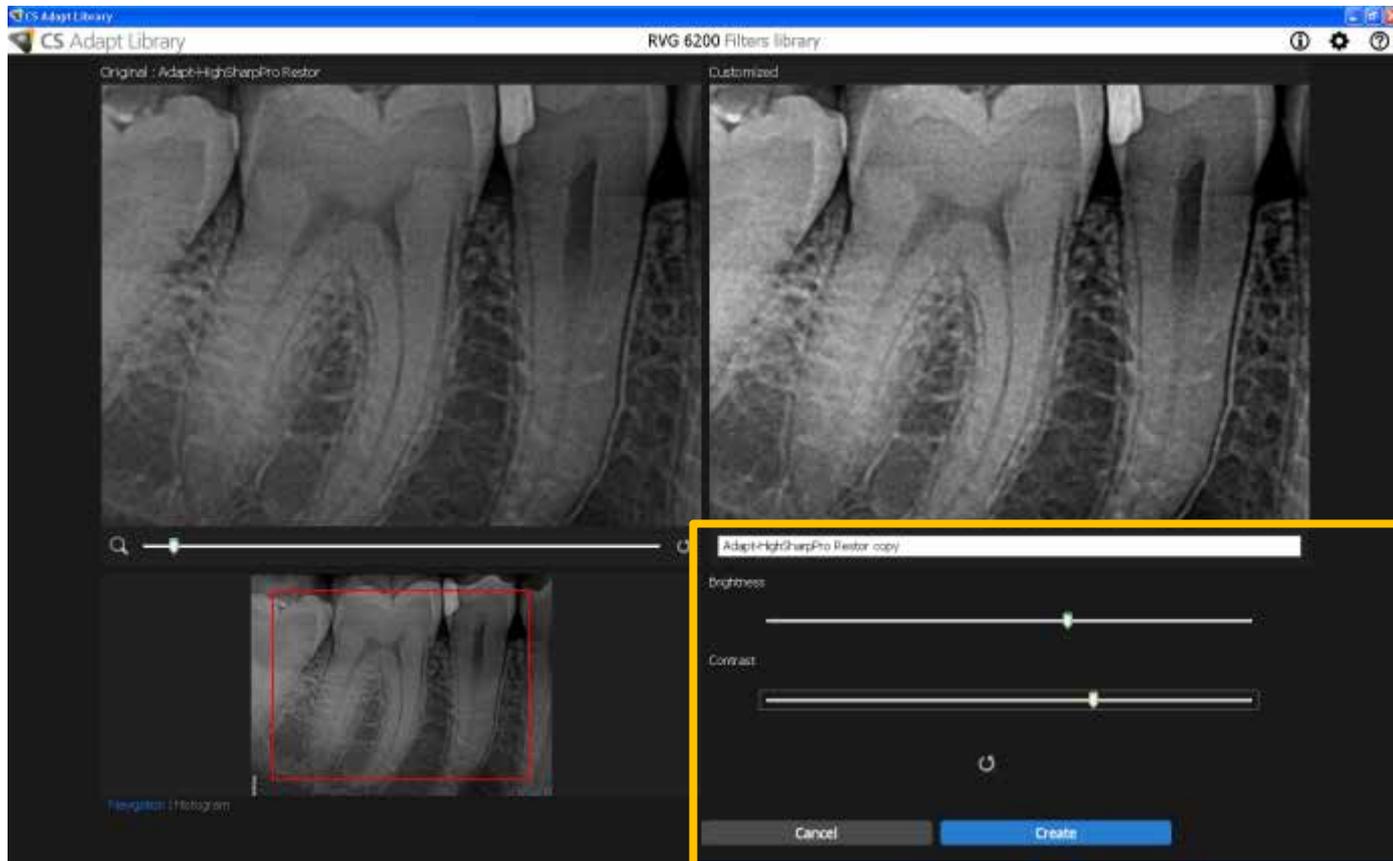
RVG 6200 Filter Family	Description of filter family
<b>Insight</b>	Recreates appearance of images captured on Carestream's Insight traditional film
<b>Ultra-speed</b>	Recreates appearance of images captured on Carestream's Ultra-speed traditional film
<b>Anatomic</b>	A family of unfiltered options with gray level display optimization
<b>OptimizedSmooth</b>	Creates a smooth and contrast-enhanced image
<b>DetailedSmooth</b>	As OptimizedSmooth, with increased contrast
<b>AdvancedSmooth</b>	As DetailedSmooth, with increased contrast
<b>OptimizedContrast</b>	Identical to the Optimized Contrast and Sharpness preference available in the RVG 5100 and 6100 acquisition
<b>Contrast</b>	Identical to the new RVG 6500 Contrast preference for RVG 5100 and 6100
<b>HighSharp</b>	Identical to the higher sharpness preference available for the RVG 5100 and 6100
<b>HighSharpPro</b>	An optimization of the Higher Sharpness preference that was available with RVG 5100 and 6100, it reduces artifacts around radiopaque materials



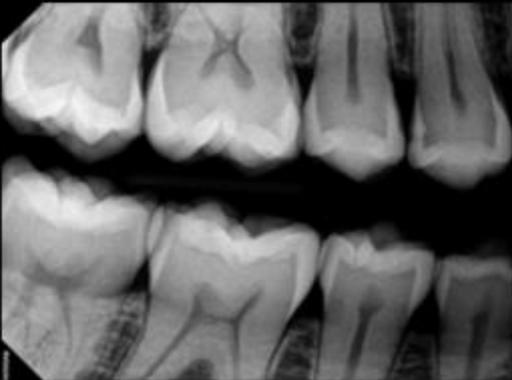
# CS Adapt Module

## Custom Filters - RVG 6200 Filters Library

- All 40 pre-sets can be customized by modifying brightness and contrast in order to better suit clinical needs or monitor performance.



# Clinical images



**RVG 6200**

# **DURABLE BY DESIGN**

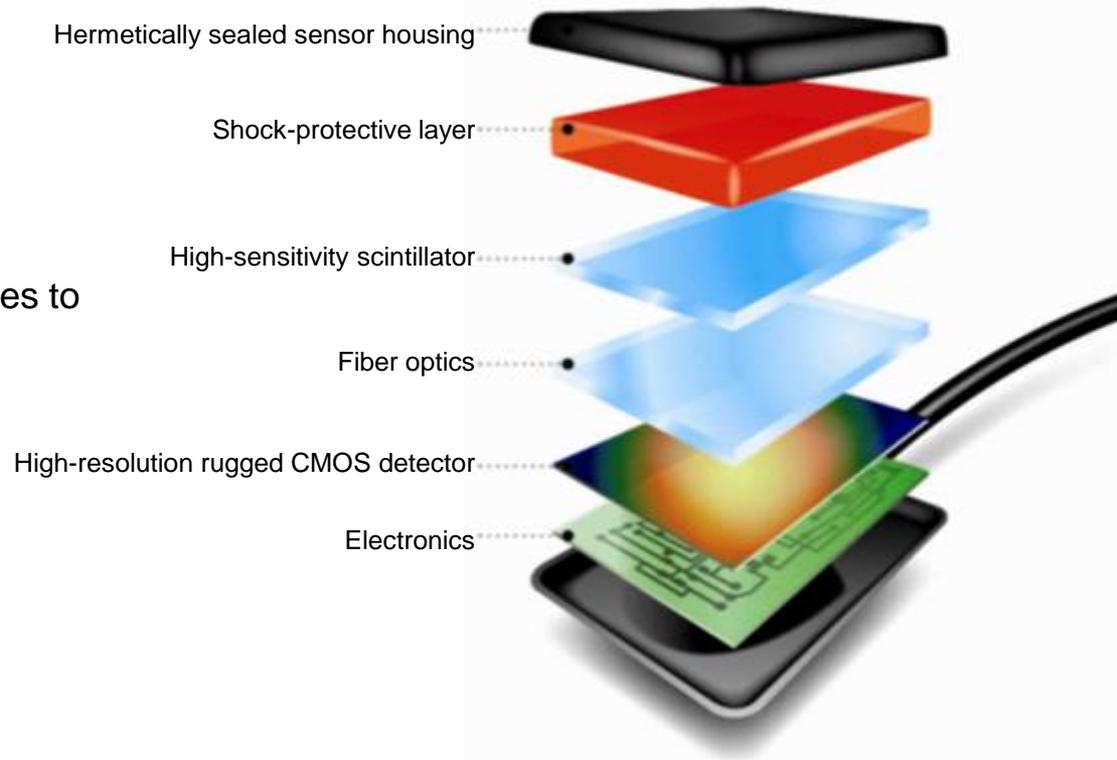


# Durable by design



[ Humanized  
technology ]

- Shock resistant hermetically sealed casing designed to resist
  - Shocks
  - Bites
  - Drops
- Fiber optics
  - Protect detector from x-ray
  - Allows for unlimited number of exposures to sensor



# Durable by design



- Improved sensor design
  - New design reduces number of connection points by 50%
  - Addresses 3 primary cable connection points
    - USB connection
    - Remote control box
    - Sensor head attachment point



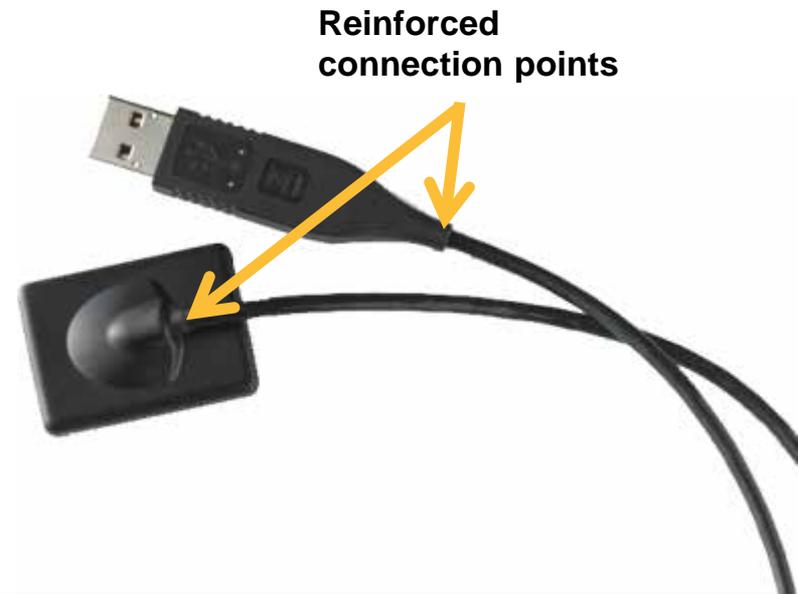
**New cable design**



[ Humanized  
technology ]

# Durable by design

- Reinforced cable connection points are injection molded to increase strength over previous generations of RVG sensors
- Sensor cable attachment
- Connection to USB plug
- Higher up-time with lower service cost



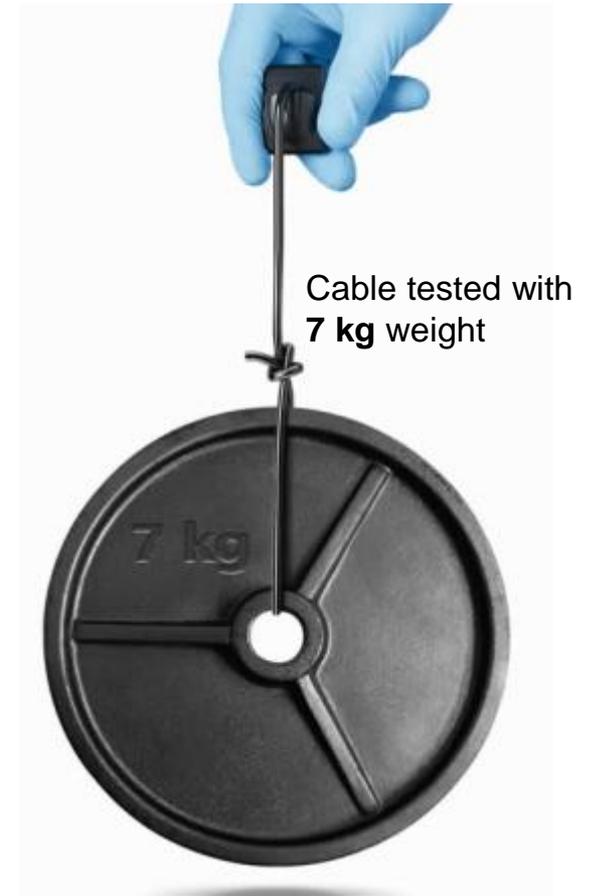
# Durable by design



[ Humanized  
technology ]

## Cable testing

- Securely attached new flexible cable is tested to support tens of thousands of manipulations – more than 10 years of very intensive use.\*
- 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
  - Tested to withstand strong tractions by a 15 lb/7 kg weight
  - Eliminates need for a detachable or replaceable cable
- Flexion testing
  - Cable sturdiness is essential
  - Strong cables prevent the need for replaceable cables



# Durable by design



[ Humanized  
technology ]

- Uniquely waterproof
  - Sensors are immersed in water for 24 hours
  - Test ensures the sensor is both airtight and watertight
  - Airtight design provides further protection to CMOS sensor
  - Fully waterproof sensor supports immersion in disinfecting solution for enhanced hygiene and safety
- What is the importance of a waterproof sensor?
  - Ability to adequately disinfect sensor is important if barrier sheath tears or breaks
  - One study determined that a brand of commercially available plastic barriers used to protect dental digital radiography sensors failed at a substantial rate (44%). This rate dropped to 6% when latex finger cots were used in conjunction with the plastic barrier.\*



**RVG 6200**  
**IMPROVED**  
**ERGONOMICS**





[ Humanized  
technology ]

# Improved ergonomics

- Ergonomically optimized rear cable entry
  - Cable housing size significantly reduced over previous generation sensor
  - Less bulk for improved patient comfort
  - Improves image acquisition by allowing for easier placement and positioning of sensor
- Despite change to sensor housing, RVG 6200 is compatible with existing RVG 6100 positioning devices



# Improved ergonomics



- New, redesigned cable
- 20% thinner diameter reduction in cable thickness
- Weaving of alloy mesh cable shielding optimized for flexibility
- Teflon<sup>®</sup> lining reduces friction of cable wires
- Improved Flexibility

# Improved ergonomics



[ Humanized  
technology ]

- Flexible wire combined with smaller cable housing has significant ergonomic benefit
  - Provides increased flexibility for ease in sensor positioning
  - Facilitates better horizontal and vertical bitewing radiographs
  - More comfortable experience for the patient



**RVG 6100**



**RVG 6200**

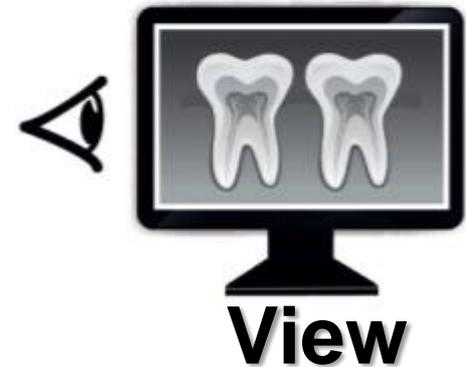
# RVG 6200 ENHANCED WORKFLOW



# Enhanced workflow



- Workflow is optimized to the extreme:  
**Position. Expose. View.**
- No need to activate the sensor prior to image acquisition
  - When using Carestream's Dental Imaging Software, the RVG 6200 sensor is **always ready** to acquire images
  - No more control box on the cable - simpler, easier use
  - Shorter learning curve with fewer steps to acquire images
- Image is displayed within **seconds** after X-ray exposure



# Enhanced workflow



- High exposure range
  - **Exposure range** of a sensor is the range of exposure dose for which you can achieve a clinically acceptable image
  - RVG 6200 sensor offer a very broad exposure range
    - Provides extreme flexibility by allowing for image capture over a wide range of exposure
    - Sensor is very accommodating and versatile - doesn't require optimized exposure to produce a clinically useful image
    - Can complete an FMS examination without the need to change exposure settings
  - Benefits
    - Improves workflow
    - Results in fewer retakes
    - Faster, more efficient experience for the patient

# Enhanced workflow



[ Workflow  
integration ]

## TWAIN compatible

- Simplifies implementation
- Allows for direct acquisition with TWAIN compliant third party imaging software
- Enables customer to continue using existing TWAIN compliant software
- New FMS TWAIN
  - Opens an interface to acquire a guided FMS
  - Then passes individual images plus one for the complete mount through TWAIN channel



**TWAIN**  
*Linking Images With Applications*

**RVG 6200**  
**SERVICE MADE**  
**SIMPLE**



# Service made simple



[ Humanized  
technology ]

## Designed to simplify installation and maintenance procedures

- Installation made easy – upgrade from RVG 5100, 6100 or 6500 with no other assistance than the Quick Install and User Guide
- Post-installation checks fully automated



# **RVG 6200**

# **SUMMARY**

# Testimonials

"The timer image speaks for itself!  
3 seconds is the time between the  
exposure triggering and the  
visualization off an impeccable  
dental radiological image. Who  
could do better ?!!!"

**Dr Francis PAILLER**  
**Montelimar, France**

"My God.... This sensor  
is marvellous!!!"

**Dr Belliard**  
**Guadalajara, Spain**

"The most accomplished of  
all the sensors I have used  
(image and workflow)."

**Dr Gérard Damelincourt**  
**Lognes, France**

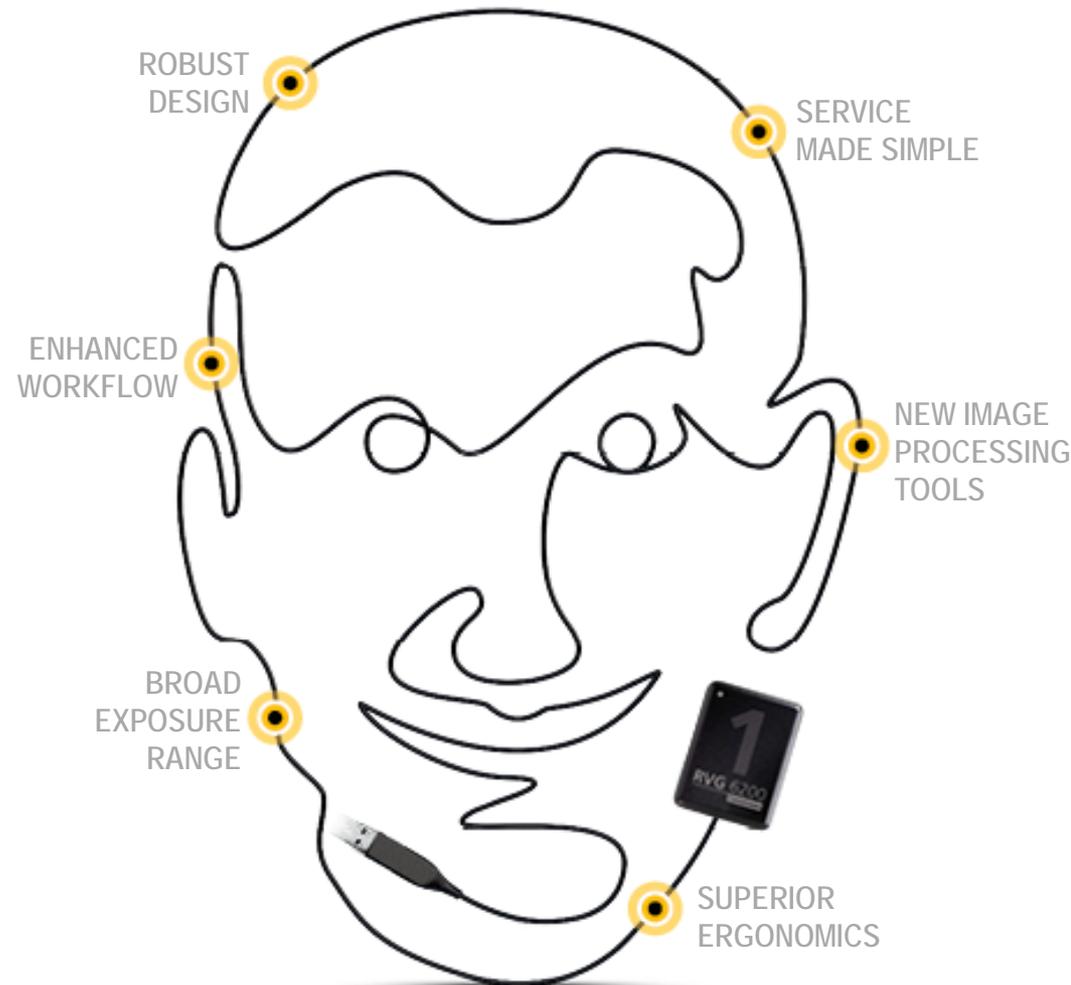
"A lightweight, simple and  
efficient sensor, which gives an  
optimal visual quality, and backed  
by a high performance software."

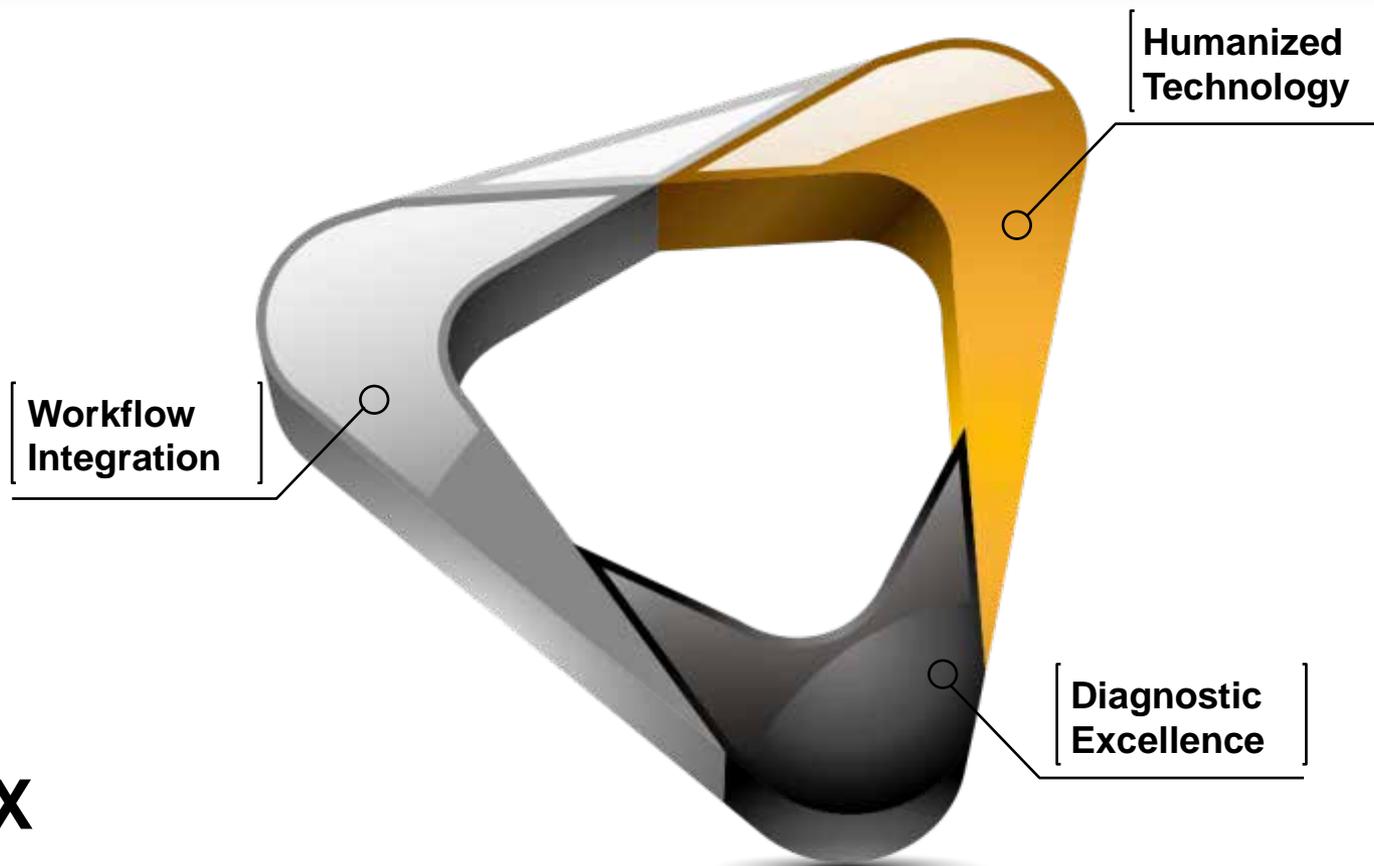
**Dr Bernard Kurdyck**  
**Paris, France**

# Summary

Proven RVG technology,  
redesigned with you in mind

- Exceptional image quality
- New CS Adapt module
- Durable by design
- Improved ergonomics
- Enhanced workflow
- Easy-to-use imaging software
- Service made simple





# APPENDIX

# Theoretical vs. True resolution



[ Diagnostic  
excellence ]

- Manufacturers advertise different types of resolution
  - Theoretical resolution
  - Measured (sometimes called true, or actual) resolution
- Understand the difference between each type
- Important not to compare theoretical claims with actual claims

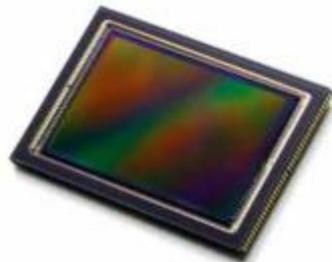
# Theoretical vs. True resolution



[ Diagnostic  
excellence ]

## Theoretical Resolution

- Theoretical resolution is a calculation of what the sensor is capable of in an ideal world, based solely upon the number of pixels and pixel size of the CMOS sensor.



**Theoretical lp/mm  
Measures CMOS  
Component Only**

## True Resolution

- In contrast, true resolution adds in the components of the finished product, including sealants, shock layers, scintillators, and protective housing, as well as detector noise, to determine the measured resolution in lp/mm."

**True Resolution lp/mm  
Measures Entire  
Manufactured Sensor**

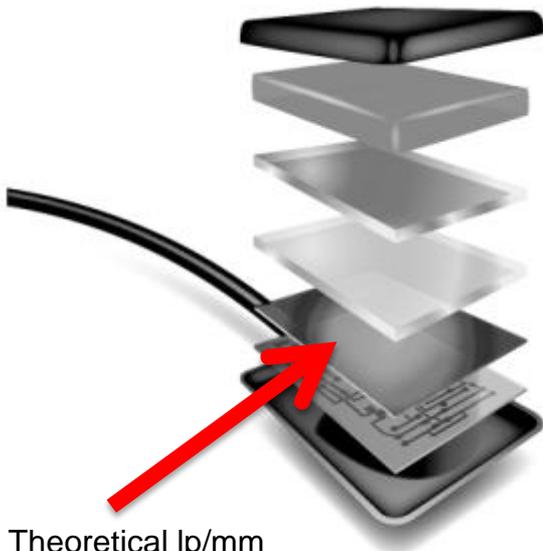
# Theoretical vs. True resolution



Measure the **actual outcome** of the image, not the theoretical possibility of a single component

## 17 lp/mm True Resolution

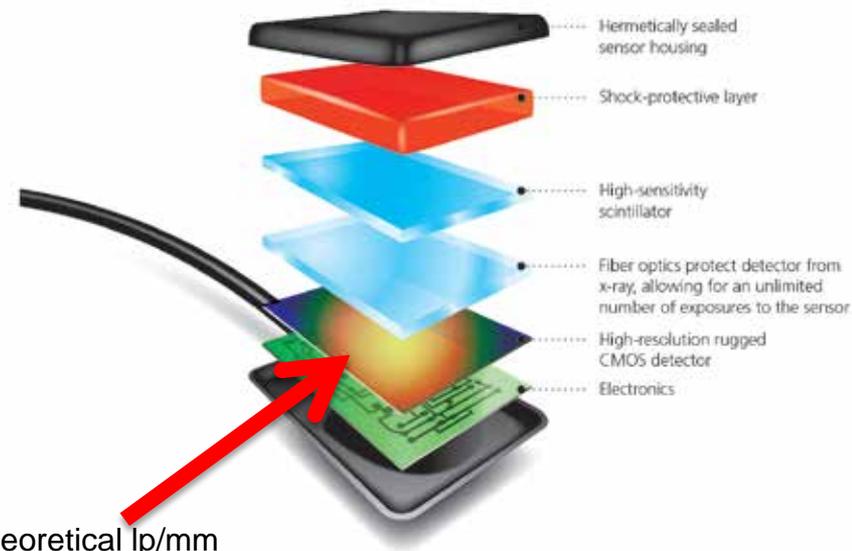
Capability of Entire Manufactured Competitor Sensor\*



33 Theoretical lp/mm  
CMOS Component Only  
*(Claim made by multiple manufacturers)*

## 24 lp/mm True Resolution

Capability of Entire Manufactured RVG Sensor



27 Theoretical lp/mm  
CMOS Component Only - RVG

\*Planmeca ProSensor was used in this example

