elephant
HD Sensor

Patient Comfort

Rounded Edges: Designed for maximum patient comfort and reduced anxiety.

Slim Profile: Enhances adaptability to oral structures, featuring a mere 4.5 mm thickness.

4.5 mm

Concave Back Design

Ergonomically supports fingers for stable handling during procedures.

Connection Box

Positioned at the cable's end to minimize impact and protect against shocks.

Cable with High Reliability

Reinforced cord connection > 70,000 bending test (± 90°) passed

Sensor Sizes

Size 1.0
Not suitable in posterior region

Size 1.5
perfect balance of coverage
and comfort

Size 2
Not comfortable due to its
larger dimensions

Specifications	size 1	size 1.5	size 2
Dimensions	25.0*38.5*4.5	29.2*43.5*4.5	31.0*45.0*4.5
Active Area	20*30	24*33	26*36
Pixel	1000*1500	1200*1650	1300*1800
Sensor	APS CMOS	APS CMOS	APS CMOS
Grey Value	16Bit/0~65536	16Bit/0~65536	16Bit/0~65536
Power	5.0 V	5.0 V	5.0 V
Interface	USB 2.0	USB 2.0	USB 2.0

HD sensor specifications

Detector type: APS CMOS	**Pixel size:** 20um
Scintillator: CsI	**Grayscale:** 16 bits
Cable: replaceable	**Resolution:** 25lp/mm
Line length: standard 3m	**Protection level:** Ip68

- **Hybrid ICs on circuit board**

  Low noise integrated circuit design

- **APS CMOS image sensor**

  Low noise CMOS image sensors
 In-house design and process

- **CsI scintillator**

  Directly deposited CsI
  Low Dose (LD) and
  High Resolution (HR) options

- **Robust and safety design**

  Biocompatible IP68 protection
  Easy infection control

- **Encapsulation layer**

  Protects scintillator
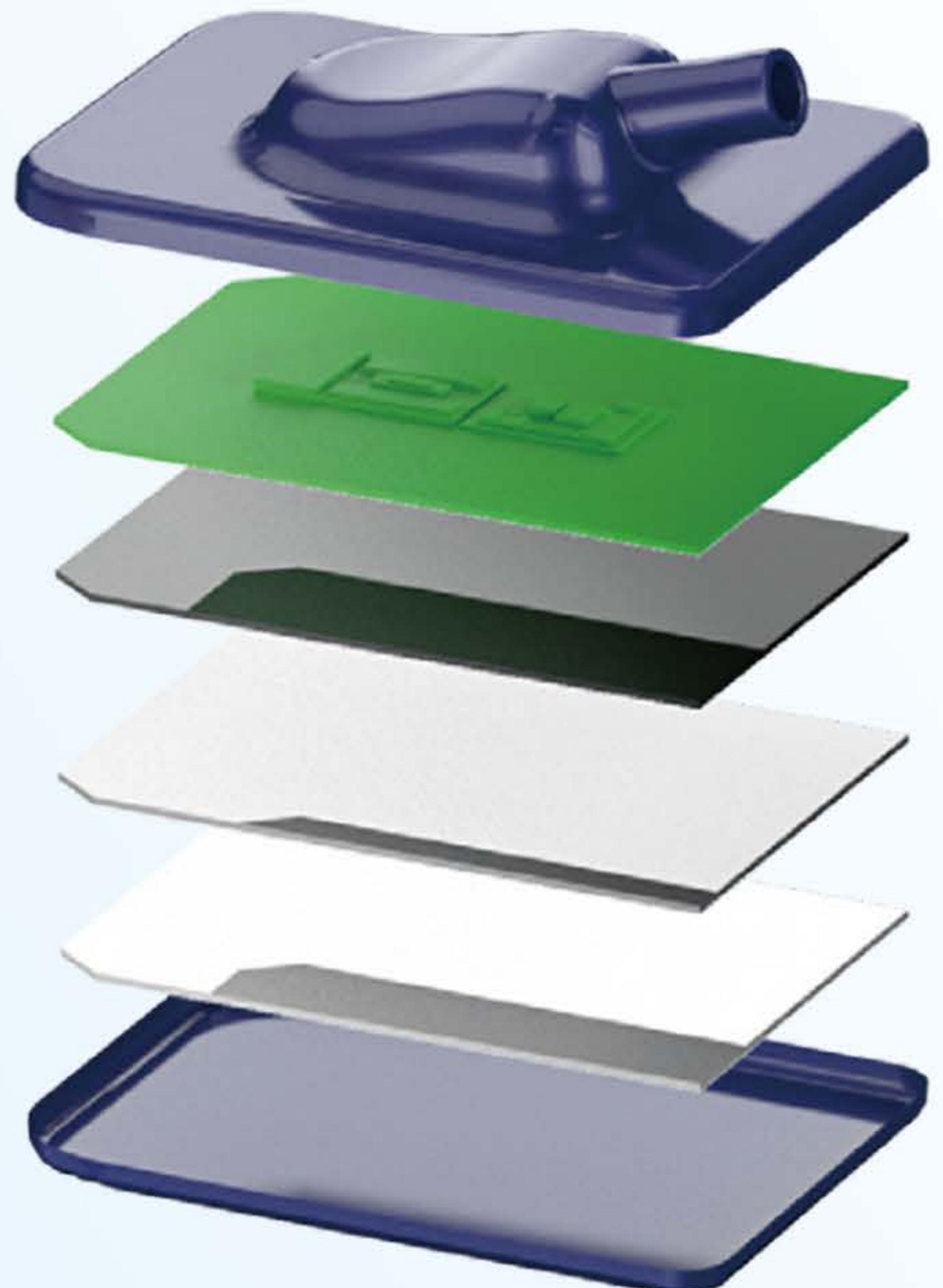
The highest level of protection against water and dust in the world.

Degree of Protection against SOLID object.

0 No protection

1 solid object >50mm as a hand

2 solid object >12.5mm as a finger

3 solid object >2.5mm as a wire

4 solid object >1mm as a strap

5 dust protection

6 no ingress of dust
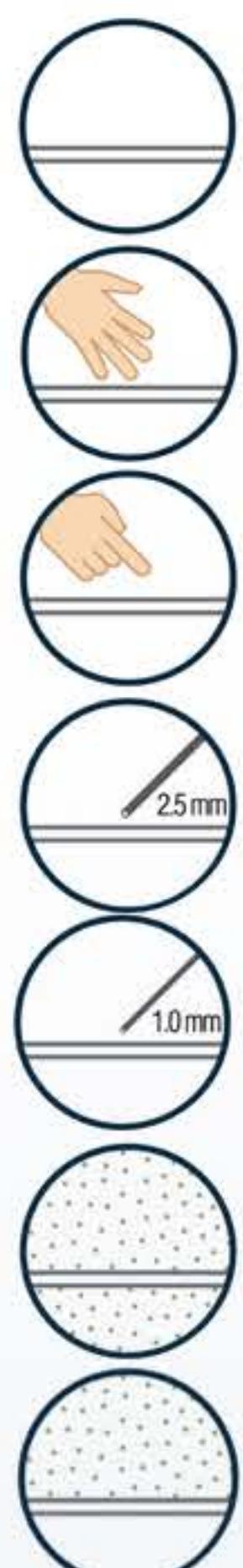
Degree of Protection against LIQUID (Water).

0 No protection

1 water drops

2 water drops at 15°

3 water spray at 60°

4 water splashing

5 water jets

6 powerful jet and heavy seas

7 Temporary submersion (30min. at 3 feet)

8 permanent submersion (up to 13 feet)

Example

IP **6** **8**

Dust sight. No ingress of

Protected against the affects of permanent submersion in water (up to 13 feet)
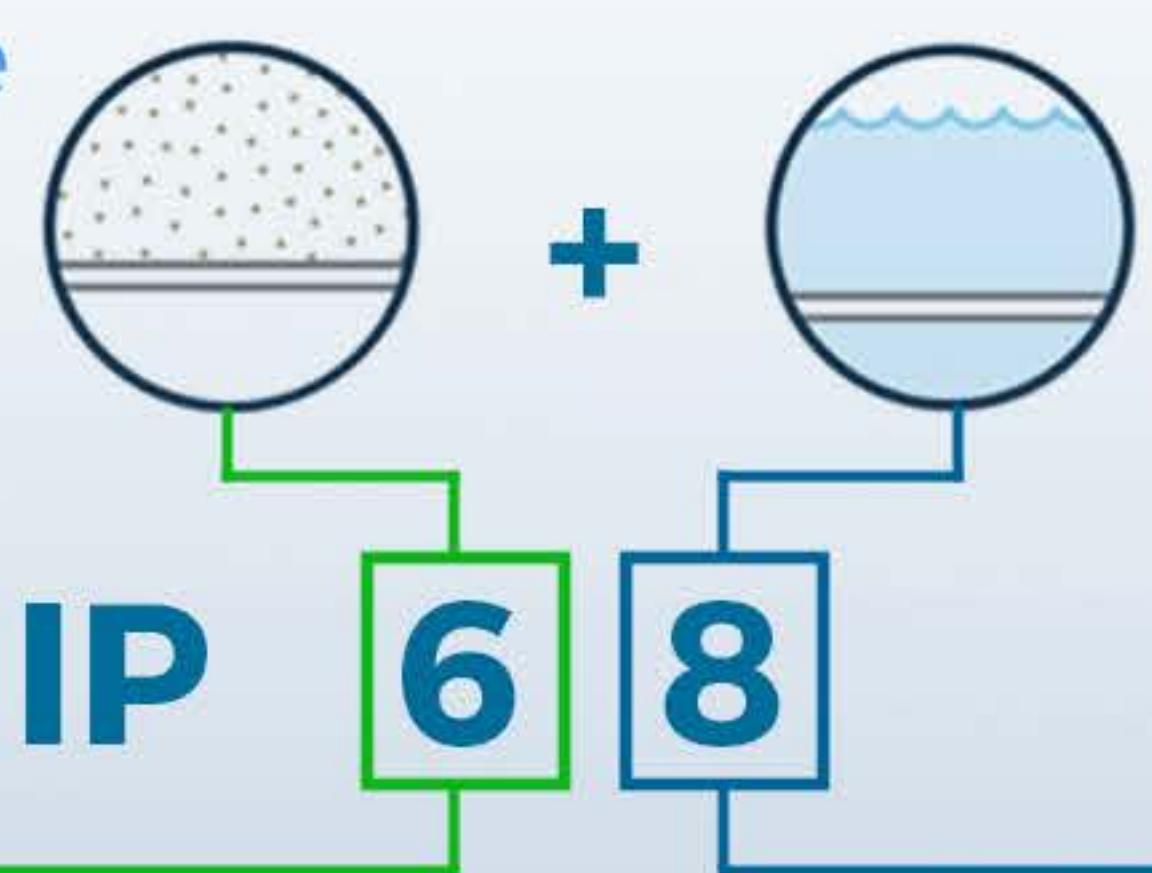
IP 68

Brilliant
Waterproof
performance

Sensor Software

User-Friendly Interface
Designed to be intuitive and easy to navigate, ensuring a smooth user experience for dentists.

Simplified Operations
Provides a straightforward approach to image capture and analysis, saving time and effort.

Enhanced Performance
Offers features that optimize diagnostics and improve treatment planning, supporting accurate and effective dental care.
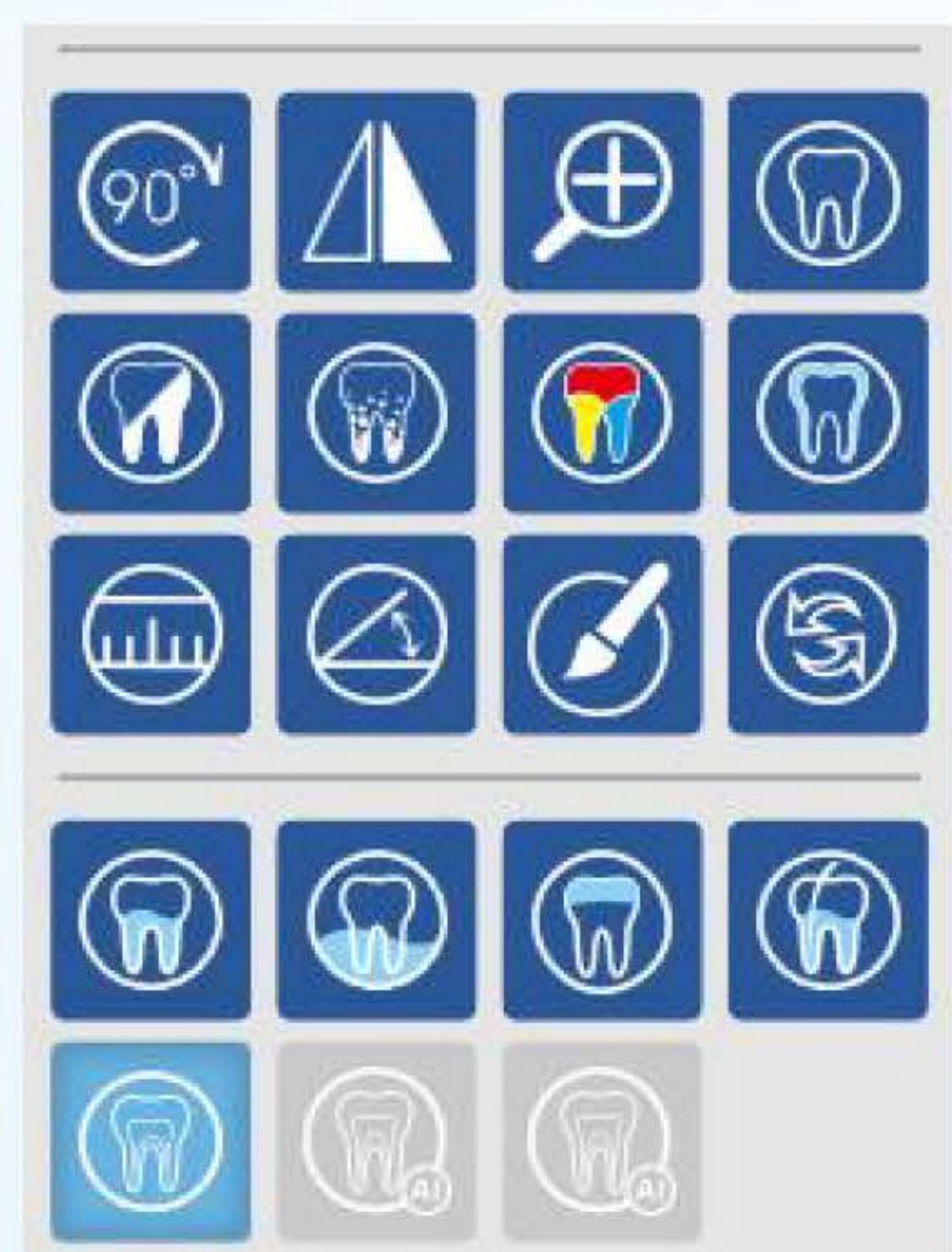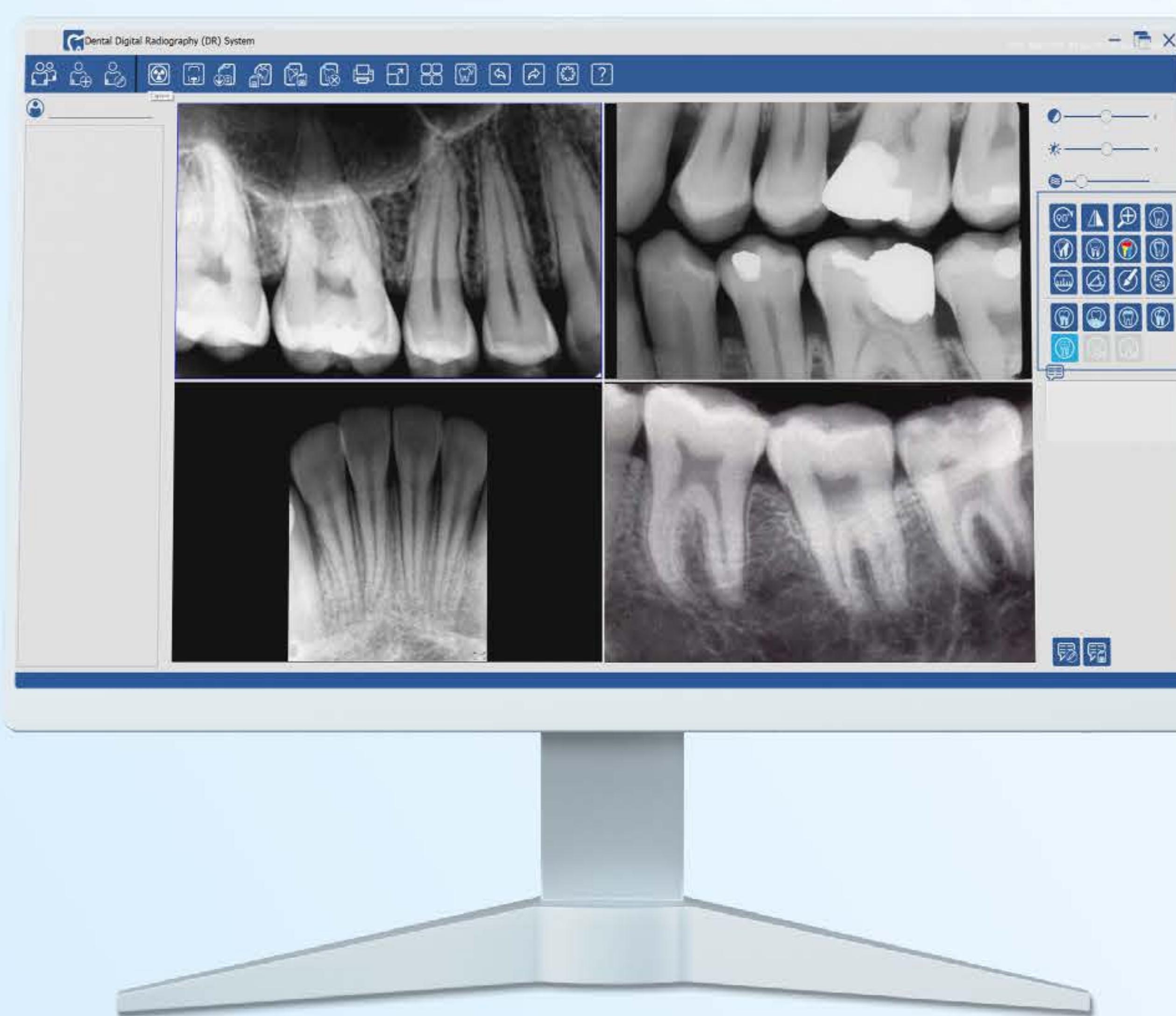
Icons for the ability to edit and customize the settings of the captured images to suit your needs.

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