

ENGLISH

**iCare** ST500



**A new era in  
slit lamp tonometry**

For better perception **icare**

# iCare ST500

## Slit lamp tonometer

iCare's patented rebound technology is a proven technique for obtaining accurate and rapid IOP measurements from all your patients. Measuring requires no anesthetic drops, air puffs, or other preparation.

The iCare ST500™ slit lamp tonometer combines extreme ease of use for the practitioner and unsurpassed comfort for the patient. Rebound tonometry enables faster operation and acquisition, increasing patient workflow efficiency.



# Slit lamp mounted rebound tonometer

The design of the iCare ST500 makes IOP measurement an integral part of standard slit lamp procedures. It is compatible with the majority of the most common slit lamps with 8 mm hole in their rotation axis. The slit lamp mounted design creates optimal patient positioning, minimizing the need for repositioning and maximizing the efficiency of clinical workflow.





# Enhanced patient **comfort and ease of use**

The iCare ST500 does not require fluorescent dye or a disinfection procedure. The gentle rebound touch of a disposable probe makes the IOP measurement barely noticeable to the patient, with no harm to the cornea and no impact on later diagnostics. An efficient examination process can be performed easily with minimal staff training and without long patient preparation.

# A new era in slit lamp tonometry

Clinical validation of the iCare ST500 indicates a high agreement of IOP measurements to Applanation Tonometry. With minimal training, repeatable and accurate measurements will be captured independent of operator skill.



## High accuracy and reliability



The calibration-free rebound technology, promptly displayed results and slit lamp mounted design of the iCare ST500 eliminate subjectivity and optimize patient positioning, improving measurement accuracy and ensuring highly reproducible and repeatable results.

# Key features and benefits

- The momentary contact of the probe with the cornea is harmless and barely noticeable to the patient.
- IOP measuring is fast, accurate, and reliably repeatable.
- Intuitive user interface, available in multiple languages.



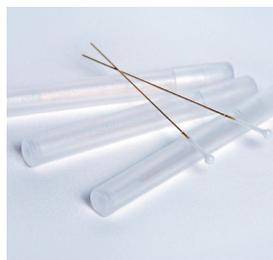
**Universal adapter**  
For most slit lamps with 8 mm focus rod mount hole. Stable patient positioning for easier measurement.



**Quick Measure**  
A fast measuring mode for challenging IOP measurements.



**A probe applicator**  
For easy probe insertion.



**Disposable probes**  
No need for time-consuming disinfection and sterilization procedures.



**Remote control\***  
The tonometer can be operated with a handy remote control.



**SmartCradle**  
Docking station to charge the iCare ST500 and accommodate a probe applicator, a probe box, and the remote control.

\*The remote control is optional



## Technical data

iCare ST500	
Type	Tonometer: TA04 Cradle: TX02 Remote control: TR01 Adapter: TD01
Dimensions (WxHxL)	Tonometer: 46 x 70 x 181 mm Cradle: 163 x 124 x 92 mm Remote control: 74 x 42 x 18 mm Adapter: 64 x 55 x 54 mm
Weight	Tonometer: 226 g Cradle: 728 g Remote control: 42 g Adapter: 80 g
Power supply	<b>Cradle:</b> AC/DC medical power supply, model no: GEM12I05-USB Input: 100-240VAC, 50/60Hz, 0.4-0.2A Output: 5V = 2.4A, 12W MAX Mains isolation device: medical power supply with regional plug <b>Tonometer:</b> Li-Ion battery, rechargeable 3.6V/2200-2400 mAh. Not replaceable by the user. <b>Remote control:</b> Lithium coin cell battery, non-rechargeable 3V CR2032
Measurement range	7-50 mmHg
Accuracy	$\pm 1.2$ mmHg ( $\leq 20$ mmHg) and $\pm 2.2$ mmHg ( $> 20$ mmHg)
Repeatability	< 8 % (coefficient of variation)
Accuracy of display	0.1 mmHg

## iCare. For better perception.

iCare is a trusted partner in ophthalmic diagnostics, offering physicians fast, easy-to-use, and reliable tools for diagnosis of glaucoma, diabetic retinopathy, and macular degeneration (AMD). Our devices cover automated fundus imaging systems, perimeters, and handheld rebound tonometers. iCare Solutions provide digital clinical tools that drive greater efficiency and enhance quality in eye care.

We believe that ophthalmic care must be accessible, effortless, and reliable, and our aim is to establish the next level of eye care.



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