



Gonioscope  
**GS-1**



THE ART OF EYE CARE

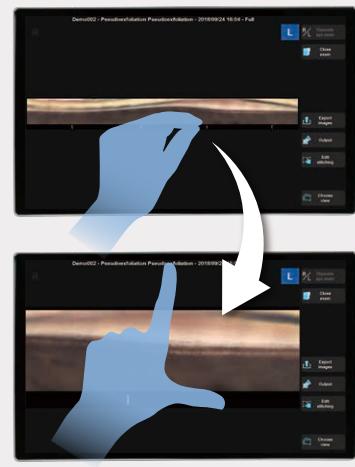
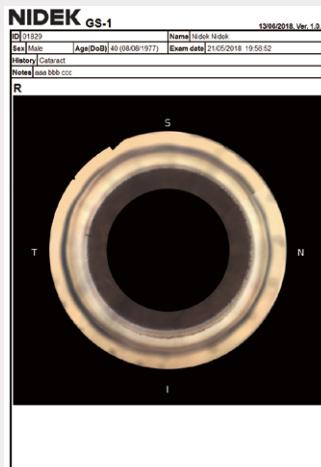
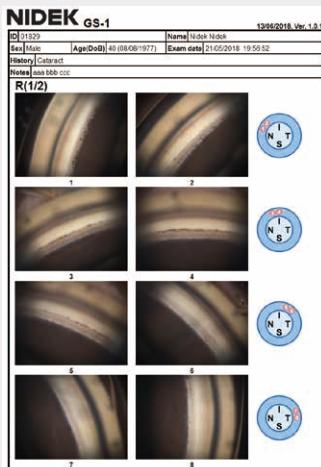
# Document. Assess. Plan.

A picture is worth a thousand words



## Instant documentation with the GS-1

The GS-1 instantly documents the iridocorneal angle in real-color photographs and stores them in the device. Hence, there is no need for detailed drawing or sketches in the patient chart to record angle pathology. Photographs from the GS-1 can be attached to the patient file or chart. Documentation with the GS-1 is far simpler and much more definitive than subjective sketches of pathology.



Easy documentation and assessment with the GS-1.

The photographs can be checked on the touch screen of the device and easily magnified.



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## GS-1 Features

### Automated circumferential goniophotography

An internal optical system automatically rotates and acquires color photographs of the iridocorneal angle in 16 directions / 360 degrees documenting the entire angle. Each direction can be captured in 17 different foci, enabling a versatile approach to iridocorneal angle photography.



16 directions

### Export images

The images acquired by the GS-1 can be displayed as a single image, with circular stitching, or linear stitching. In addition to detailed assessment with single image, stitching allows localization of features/pathologies within the entire angle. High-resolution color images are exported in JPEG, PNG and PDF files.



Single image



Circular stitching



Linear stitching

### Non-contact gel immersion measurement

To ensure patient comfort, a coupling gel is used during image acquisition. The multimirror prism is not intended to touch the cornea.



## Documentation to be shared

Assessment of angle structure and pathology is easily facilitated by reviewing the digital photographs during clinical evaluation rather than performing manual gonioscopy. The digital photographs from the GS-1 can be shared from technicians to clinicians, with fellow clinicians, the referring physicians and patients, alongside complete documentation of GS-1 findings.



### Focus on assessment and planning

Delegation of the operation of the GS-1 allows the clinicians to focus on patient evaluation and treatment planning.



### Consultation with fellow clinicians

The digital goniophotographs facilitate easy consultation with fellow clinicians to enhance assessment of diagnostically challenging cases.



### Effective information transfer to partner clinics

For patients requiring postoperative care elsewhere, digital goniophotographs can be easily sent to the referring clinics.



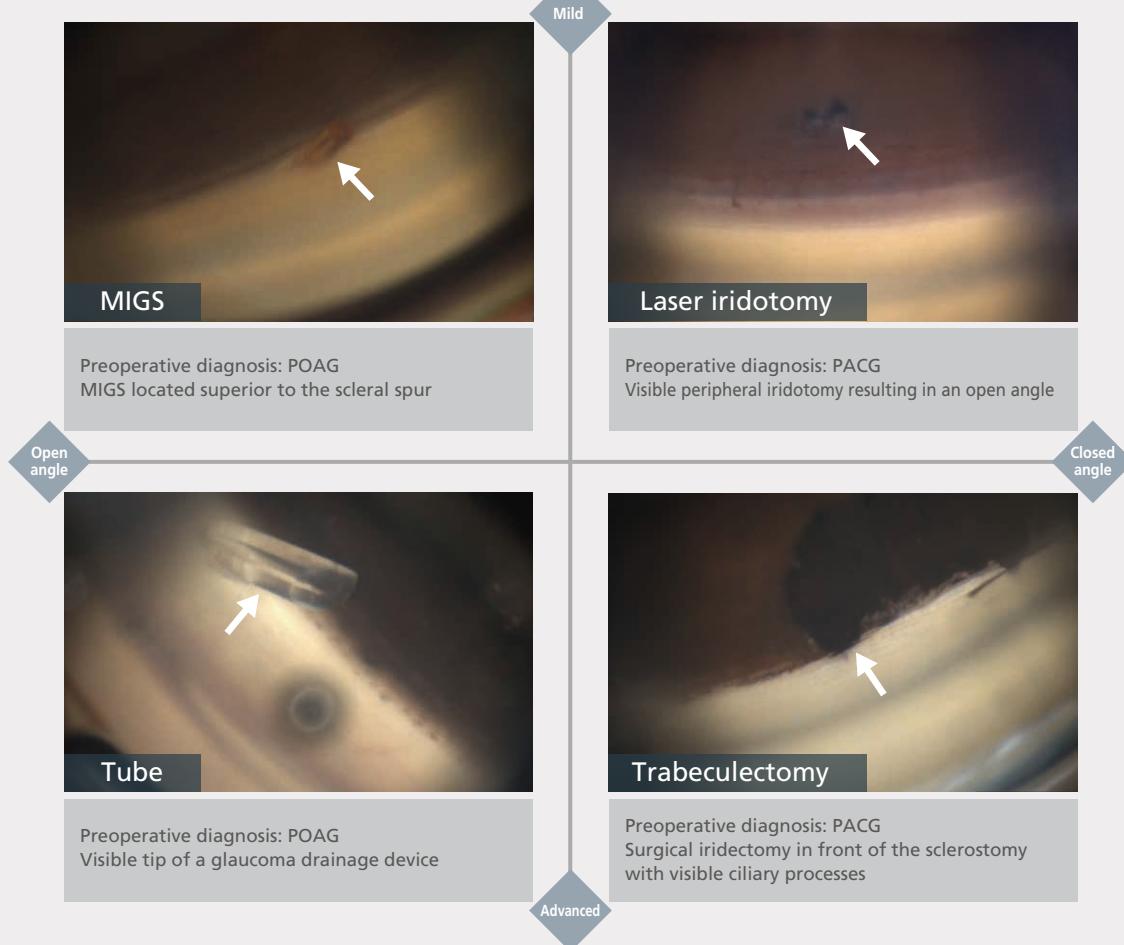
### Easier patient consent

Color goniophotographs facilitate easier patient education and consent for surgical procedures.

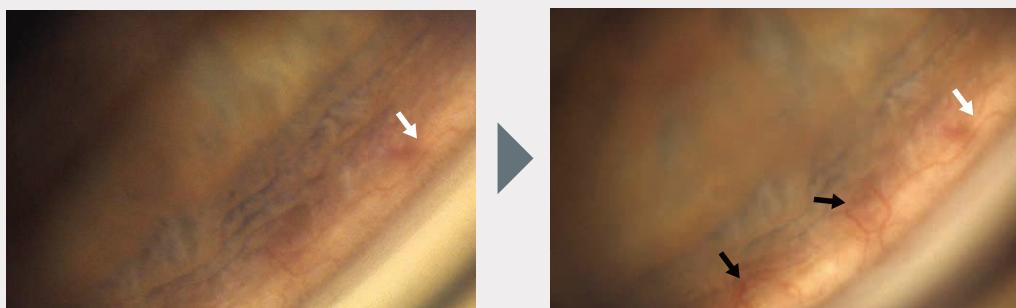
## Assess and plan with documentation

The GS-1 frees up time for the clinicians to assess and plan treatment. The digital goniophotographs add the convenience of re-assessing the entire angle at any time. High resolution color photographs enhance the quality of assessment and allow comprehensive follow-up.

### Postoperative examples\*



### Progression of neovascularization (after 5 months)\*



### Use as a clinical educational tool

The GS-1 can be used as a diagnostic device and for clinical education. Detailed color photographs facilitate sharing clinical cases with peers. It is also useful to educate those with limited experience in evaluating iridocorneal angle anatomy.



\* Images courtesy of Assist. Prof. Luís Abegão Pinto, MD, PhD, University of Lisbon, Portugal

## GS-1 Specifications

|                      |  |
|----------------------|--|
| ACA image capture    |  |
| Capturing area       | Approximately 2.36 mm (circumference direction) x 2 mm (diameter direction)  |
| Working distance     | 1.5 mm   |
| Light source         | White LED  |
| Stitching            | Circular, linear   |
| Capture mode         | Single capture<br>Multi capture: 17 foci x selected directions up to 16 directions<br>Full capture: 17 foci x 16 directions (272 images) |
| Auto tracking        | X-Y directions   |
| Auto shot            | Available  |
| Display              | 9.0-inch (WXGA) color LCD touch screen   |
| Storage              | Built-in SSD   |
| Interface            | USB, LAN   |
| Output format        | JPEG, PNG, PDF   |
| Power supply         | 100 to 240 V AC<br>50/60 Hz  |
| Power consumption    | 100 VA   |
| Dimension/mass       | 280 (W) x 504 (D) x 460 (H) mm / 15 kg<br>11.0 (W) x 19.8 (D) x 18.1 (H) " / 33 lbs.   |
| Optional accessories | External fixation lamp, head belt, barcode reader, shielded LAN cable  |

## Multimirror Prism Specifications

|                      |   |
|----------------------|---|
| Facets               | 16 surfaces                                       |
| Disinfection method  | Glutaral agent (Glutaraldehyde) (Up to 100 exams) |
| Sterilization method | EOG (Up to 30 exams)                              |



**More clinical information available online at the NIDEK Education page**

For more clinical information, please visit the Education page on the NIDEK website. This site allows access to case reports, journal articles, and video presentations.



<https://www.nidek-intl.com/education/>

Product/model name: GONIOSCOPE GS-1

Brochure and listed features of the device are intended for non-US practitioners.

Specifications may vary depending on circumstances in each country.

Specifications and design are subject to change without notice.

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