Tonometry

HNT-1 / HNT-1P

Non-contact tonometry for intraocular pressure measurement.



HNT-1 / HNT-1P · Equipment view

Sources and documentation

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This product sheet is prepared by ASEM. It does not replace the manufacturer’s official documentation or instructions for use.

Key advantages

Non-contact tonometry

Intraocular pressure measurement without contact.

Sources and documentation · Source checked on 2026-10-05

Pressure range

Pressure measurement over a range of 0–60 mmHg.

Sources and documentation · Source checked on 2026-10-05

Capabilities in practice

Tonometry

Shared HNT-1 / HNT-1P values only; ASEM version unconfirmed.

Sources and documentation

Measure pressure without contact

The HNT-1/1P family uses non-contact tonometry over 0–60 mmHg. The manufacturer specification distinguishes SPC30 and SPC60 modes.

- Pressure measurement range: 0–60 mmHg.
- SPC30 and SPC60 puff-control modes.

Sources and documentation

Select the puff-control mode

Smart Puffing Control adjusts pulse intensity within the selected pressure mode.

- SPC30 for the 0–30 mmHg domain.
- SPC60 for the 0–60 mmHg domain.

Sources and documentation

Designed for a smoother workflow

Select the tracking mode

The specification distinguishes AT3D (X, Y, Z), AT2D (X, Y) and manual modes. Pressure readings use 1 mmHg steps, with averages shown to one decimal place.

- AT3D: X/Y/Z; AT2D: X/Y; manual mode.
- Readings in 1 mmHg steps; average to one decimal place.

Sources and documentation

Designed for daily practice

Identify the pachymetry variant

The HNT-1P version adds central corneal thickness measurement from 150 to 1,300 µm. The choice between HNT-1 and HNT-1P defines the station’s configured functions.

HNT-1P only

- CCT measurement on HNT-1P only.
- Range from 150 to 1,300 µm in 1 µm steps.

Sources and documentation

Review and print measurement series

The screen gathers measurements and the thermal printer provides the examination record.

- Display of ten measurements on a 7-inch TFT screen.
- RS-232C input/output interface.

Sources and documentation

Technical specifications & documentation

Minimum pressure
0 mmHg

Sources and documentation

Maximum pressure
60 mmHg

Sources and documentation

Measurement method
Non-contact

Sources and documentation

Connectivity
RS-232C

Sources and documentation

Power supply
100–240 V AC ; 50–60 Hz

Sources and documentation

Dimensions
514 × 262 × 435 mm

Sources and documentation

Downloads & resources

- https://huvitz.com/wp-content/uploads/2024/10/HNT-1_8p_eng_20180725.pdf
  Source checked on 2026-10-05
- https://huvitz.com/wp-content/uploads/2024/10/HNT-1_8p_eng_20180725.pdf
  Source checked on 2026-10-18

Your questions about HNT-1 / HNT-1P

What is the documented Minimum pressure of HNT-1 / HNT-1P?

0 mmHg

Sources and documentation

What is the documented Maximum pressure of HNT-1 / HNT-1P?

60 mmHg

Sources and documentation

Does standard HNT-1 measure corneal thickness?

The brochure reserves thickness measurement for HNT-1P. The exact version must be confirmed before including this function or its specifications in an offer.

Sources and documentation

Which alignment modes are available?

The specification describes AT3D on X/Y/Z, AT2D on X/Y and a manual mode. These apply to pressure measurement; pachymetry remains specific to HNT-1P.

Sources and documentation

How are results presented?

The 7-inch screen displays ten measurements. Pressure uses 1 mmHg steps and averages one decimal place; a thermal printer and RS-232C are described.

Sources and documentation

Related products



AT 900

Haag-Streit

Tonometry

Goldmann applanation tonometer in the AT 900 range.

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Explore the ASEM clinical catalogue

Browse related areas of the ASEM catalogue. These links do not extend the indications of this device.

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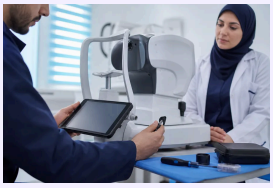

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