TonoVet Tonometer

- is a useful tool for rapid and painless measuring of intraocular pressure in animal patients. It is specially calibrated for small animals (cat/dog) and large animals (horse/cow).

Advantages:
- It is painless and therefore creates no anxiety
- No local anaesthetic is needed
- Enables rapid intraocular pressure measurements from various species
- Features calibration tables for small animals (cats/dogs) as well as for large animals (horses, cows)
- The device is small, hand-held, portable and easy to use
- The method has proved to be accurate and comfortable
- The disposable probe prevents microbiological and viral contamination
An Innovative Method

The TonoVet Tonometer is based on a new measuring principle, as a very light soft probe is used to make momentary contact with the cornea. It is called rebound tonometry. The rebound tonometer probe is electromagnetically propelled to come into contact with and then rebound from the corneal surface, and the characteristics of this rebound are used to estimate the intraocular pressure.

Rebound tonometry requires that the tonometer probe hits the central cornea horizontally, ie the animal has to stand or rest on its sternum while looking forward.

Directions of Use

The probe briefly hits the centre of the cornea at a distance of 4-8 mm and at an angle of 90°. This rapid process will not create any patient discomfort. In most cases the animal does not even blink and does not realize the probe touches its eye.

It is important that the tip of the probe hits:

- The central cornea
- Horizontally
- At a distance of 4-8 mm
- At a 90° angle to the cornea

The measurement takes place by slightly pressing the button. After each successful measurement there is a short beep. After 6 consecutive measurements there is a longer beep and the intraocular pressure is shown.
The Procedure - Step by Step

After the 1st measurement, the measured intraocular pressure value is displayed.

After the 2nd measurement, instead of displaying the 2nd measured value, an average of 1st and 2nd measurement is displayed.

Similarly, after the 3rd measurement, an average of 1st, 2nd and 3rd measurement is displayed.

The readings after the 4th and 5th measurement follow the same logic.

The last (6th) reading is calculated using a different formula. The highest and lowest of all six measurements are discarded and an average value of the four remaining measurements is displayed.

If there is an excessive deviation between measurements, a problem with probe motion, or misalignment with the central portion of the cornea, the display shows an error message.

10 different measurements can be stored in the TonoVet memory.

TonoVet Tonometer

Contents:
The TonoVet tonometer is delivered in a stylish shock absorbing steel case containing:

- 100 disposable probes
- Probe base
- Batteries
- Printed instruction manual and a cd with a detailed demonstration of how to use TonoVet

Cat. No
292000   TonoVet Tonometer

Cat. No
292001   Probes for TonoVet Tonometer, 100/pk
**Technical Details**

Type: TV01.
Dimensions: 13 – 32 mm (W) * 45 – 80 mm (H) * 230 mm (L)
Weight: 155 g without batteries, 250 g with batteries
Power supply: 4 x AA batteries
Display range: 1-99 mmHg
Accuracy of display: ±1
Display unit: Millimetre mercury (mmHg)
The serial number is on the back of the battery compartment cover
The device has B-type electrical shock protection
Storing/transportation environment
Temperature +5 to +40°C
Relative humidity 10 to 80% (without condensation)

ISO 13485:2003 Certified
CE Certified

**Recommendations:**

Quote:
“Results suggest that the rebound tonometer provides accurate estimate of IOP in clinically normal eyes in dogs and horses”.


Quote:
“The induction-impact tonometer provided accurate and reproducible measurement values. The induction-impact tonometer appears to provide a promising alternative to the use of applanation tonometers in dogs”.

For laboratory use (rats and mice) a special tonometer, ie the TonoLab is available upon request.