



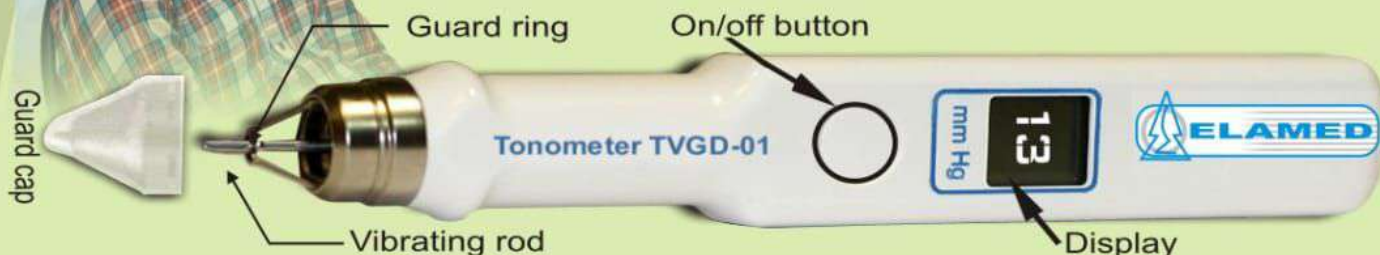
# TRANSPALPEBRAL DIGITAL POCKET TONOMETER:TVGD - 01

**Unique, Oldest and Safest method of measuring the intraocular pressure over eyelid, using Advanced Digital Microprocessor technology with Pressure Sensor.**

Even though the Transpalpebral (manual assessment of IOP) is the oldest method, combination of Static and Dynamic tonometry with Transpalpebral scleral tonometry using latest electronics microprocessor based pressure sensor has no other alternative in the world. It is the most acceptable method to carry out preclinical medical research on IOP related complications in human eyes and, moreover, it works in such complicated clinical cases when it is impossible to use classical tonometry methods. **ELAMED Digital pocket Tonometer is the result of above technology, born out of decades of constant research by group of scientists, engineers & ophthalmologists in Russia and Germany.** It is a beautiful portable device for ophthalmologists faced with pediatric, immovable and mentally challenged patients or who have corneal abnormalities such as corneal edema, erosions or keratoprosthesis.

## Unique principle of Elamed TVGD-01

While measuring IOP in TVGD-01, each vibration of the tonometer's vibrating rod over the eye-lid notes the IOP at that point. The reading displayed is the average of all the measurements taken by total number of vibrations (which is combination of static & dynamic tonometry values of individual vibrations) at the point of measurement.



### BENEFITS FOR DOCTORS:

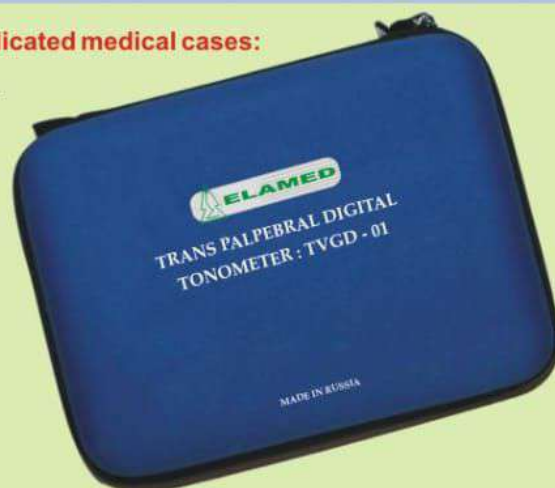
- Lightweight, Portable & handy pocket digital device.
- Very user-friendly and provides Accurate results
- Wide range of use like, OT/In-door/Out-Door patients as well as mass Screening camps.
- Quick & efficient procedure of measuring (IOP measurement in few seconds)
- Creates an image of a modern doctor working in an up-to-date equipped medical center
- Any paramedical/general staff can be trained in hour to handle and use.
- Almost no Consumable expenses.

### BENEFITS FOR PATIENTS :

- No contact to the cornea
- No risk of infection
- No anesthesia drops
- No pain or fear of corneal injury.
- No bitter experience of irritating Air-Puff, of Pneumatic Air puff Tonometers.
- No Expensive Disposables/ probes
- A boon to measure IOP for Pediatric Patients.
- For regular monitoring, even a patient party can have it.
- Usefull tool for bedridden & immoveable patients.

### "ELAMED" Transpalpebral Tonometer is effective and irreplaceable in complicated medical cases:

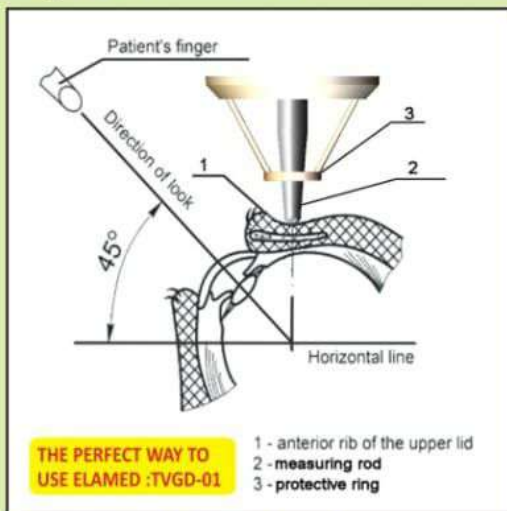
- Can measure IOP even in the presence of viral infections, allergic reactions, dry eye syndrome, contraindications for corneal tonometry
- Can serve as non-invasive day monitoring tool while selecting the adequate hypotensive medical treatment
- Can measure IOP on patients after corneal surgeries
- Can measure IOP with contact lenses on
- Can measure IOP on immobilized patients
- Screening tool for elevated IOP by PCPs ( Post Cataract Procedures)
- Trained family members can monitor IOPs of glaucoma patients at home



## Comparative advantages of different Tonometers

FEATURES	Elamed	Schiortz	Goldman Applanation	Air-Puff (NCT)	Tonopen	I-Care/Suoer Rebound	Pascal DCT Dynamic Contour Tonometer
No contact with the cornea	✓						
Portability	✓	✓			✓	✓	
Measurements independent of Corneal Thickness	✓						✓
Digital IOP indication	✓			✓	✓	✓	✓
Measurement in sitting position	✓			✓	✓	✓	
Measurement in reclining position	✓				✓		
Short -time measurement	✓			✓	✓	✓	
Sterilization is not required	✓			✓		✓	
Anesthesia is not required	✓			✓		✓	
Dispensable materials are not required	✓			✓			
No need to take out the contact lens	✓						
Static & Dynamic	✓	Static	Static	Dynamic	Static	Dynamic	Dynamic

Comparative tests of **ELAMED** tonometer and Goldman -Applanation tonometer give s the evidence of high reliability also Compared with Rebound as well as Air puff controlled tonometer provides higher edge of satisfactions.



### Technical Specifications

Measurement range, mm Hg	05-60 mmHg
Measurement range with Accuracy	05 to 26 mm Hg ( $\pm 2$ mm Hg) 26 to 60 mm Hg ( $\pm 10\%$ )
Measurement Step	01 mmHg
Approximate measurement time	Approx. 02 seconds
Supply voltage	3 V DC ( AAAA battery)
Number of measurements using one pair of battery	30,000 or more
Stand- by Battery life	1 year or more
Approx. Service life	10 Years or more
Weight in gm	Approx 90 gm
Dimensions in mm	176x26x20 mm

### Distributed by :

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