

**Frey**

CE 1434



# Non-contact Tonometer with Pachymetry TNP-200

Frey

# CLair

TONOPACHY CLEAN AIR SYSTEM FROM FREY

Innovative clean air-system

Soft-air puff

Auto CCT measurement for IOP correction

Auto-adjust & auto mode

LAN/ Wi-Fi connection

Built-in, thermal printer

FREY TNP-200 is the new benchmark non-contact Tonometer with Pachymetry. Intelligent and innovative. Intuitive and easy to use. Designed to optimize patient safety and improve cleanliness of the device. CLair is a clever solution for clinicians and their patients.



TNP-200

# PATIENT'S IOP

**Tonometer with Pachymetry. One device, easy to use.**

FREY TNP-200 encompasses the seamless and compact integration of a non-contact tonometer and a pachymeter. TNP-200 measures intraocular pressure (IOP) values automatically and reliably, thanks to accurate CCT (Central Corneal Thickness) results. TNP-200 delivers precise and reliable corneal thickness measurement.

## Clair

### Unique clean air system

Clair is an innovative air puff system that maintains a hygienic air pathway. Pathogens cannot enter the device, reducing the potential for contamination.

### Fully automated CCT measurement

TNP-200 pachymeter function allows clinicians to receive correct IOP results quickly and accurately. TNP-200 can be easily programmed to suit the clinician's preferences. Choose between two correction methods: Dresdner and Elsheikh.

### APA

Featuring Automatic Pressure Adjustment (APA), patient comfort is enhanced. After the initial puff measurement, TNP-200 intelligent software algorithm evaluates the data to determine the optimal strength for the next two puffs. TNP-200 with APA guarantees more accurate and reliable tests, improved examination results and greater patient comfort.

### Image preview

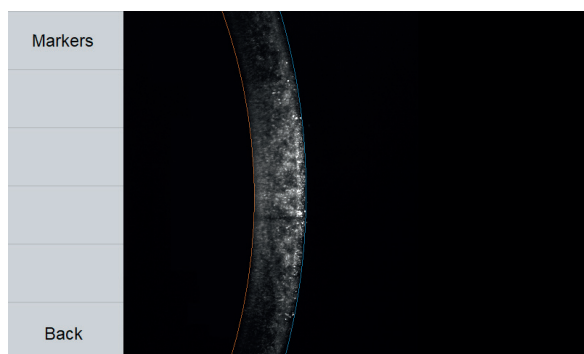
TNP-200 image preview of pachymetry results are quickly accessible during the examination.

### Fast one-click auto-measure

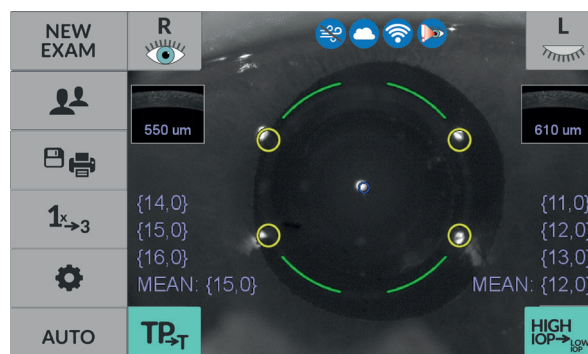
TNP-200 is intuitive and effortless to operate, featuring a fully automated alignment system and measurement function.

### Wi-Fi & LAN connectivity

Connect to a local network via LAN or Wi-Fi for easy export and import of exams results.



An image of the cross-section of the cornea.

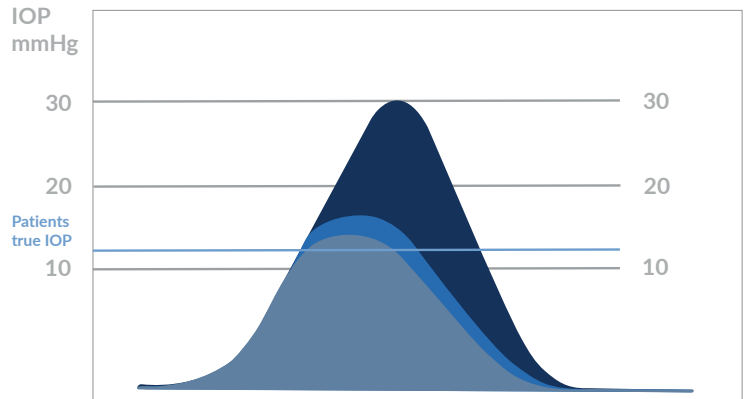


The main screen of TNP-200 is clear, intuitive and simple.

# CaAPAbility to adjust.

## How Automatic Pressure Adjustment (APA) feature enhance IOP diagnostics?

FREY have equipped TNP-200 with Automatic Pressure Adjustment (APA) system, an intelligent and fully automatic system of air power matching. APA has been designed to make patients feel even more comfortable during tonopachymetry examination. APA first puff of air diagnoses the pressure in the patient's eye. TNP-200 software analyzes patient data collected and selects the power of subsequent air puffs. The next two puffs intelligently adjust air puff strength continue patient examination. TNP-200 with APA ensures more accurate and reliable tests, delivering enhanced results and improved patient comfort.



APA system visualization.

## TNP-200 technical specification

Device type	TNP-200 non-contact Tonometer with Pachymetry	
Corneal thickness measurement range	0 - 60 mmHg (0 - 80hPa), 300-1300 µm	
Measurement resolution	0,5 mmHg, 1 µm	
Main unit	Dimensions H/W/L	460 x 300 x 480 mm
	Weight	16 kg
Power source	100-240VAC 50/60 Hz	
Power consumption	60 W	
Power supply unit	External, medical power supply adapter INPUT: 100-240V ~1,5A OUTPUT: 12V =5A	
Printer	Built-in, thermal	
Display	7" colour LCD with touch screen	
Measuring unit travel distance	85 mm (X axis); 40 mm (Y axis); 50 mm (Z axis )	
Chin rest travel distance	69 mm (up/down)	
Chin rest	Electrically regulated (up/down)	
Storage devices	Internal flash	
Database capacity	Up to 3500 patients x 100 exams x 3 measurements (for each eye) Data format: XML	
Connectivity	Wi-Fi, LAN	

