

# REFRACTION SYSTEM TAP-2000

## AUTOMATED PHOROPTER

# DELIGHT IN SIGHT

Simplifies the refraction routine.



- Ergonomic control panel
- Numerous kinds of tests
- Wide visual field
- Individual working routine
- Compatible with various TOMEY equipment
- Dual cross cylinder for high efficiency

 **TOMEY**

# THE AUTOMATED PHOROPTER TAP-2000

## QUALITY IN DETAIL



The automated phoropter TAP-2000 is the optimal product to establish an individual working routine for an all-round refraction. The phoropter assists in performing the various measurement options by displaying useful tips.

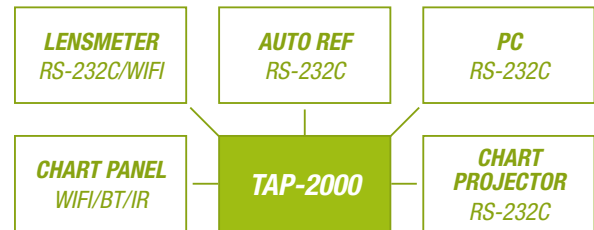
Additionally TAP-2000 is compatible with various TOMEY equipment like lens meter, autorefractor, chart panel and projector. No matter if you prefer cable or wireless connection – both options are available (depending on equipment). Thanks to this it is easy to import data from different sources and export your final refraction values to a PC or EMR system.

## COMFORT FOR OPERATOR AND PATIENT

- The convenient control panel allows an easy one-hand operation.
- Call up the versatile vision test with the touch of a finger.
- The dual cross cylinder leads to more efficiency in the astigmatism measurement by presenting both visual impressions simultaneously.
- During the refraction, the blue LED light on the front side of the phoropter head indicates the correct position of the patients' forehead.
- The wide visual field of 40° guarantees a very natural vision without limitations.
- By the bright white LED light for near vision, the near vision chart is illuminated perfectly.
- The comparison between pre-exam data acquired by TOMEY Lensmeter or Auto-Refractometer and the final refraction data may be demonstrated by one click.
- An ergonomic use is supported by the **flexible display** of the control box.



## DATA TRANSFER OPTIONS OF TAP-2000



*Please note:* The availability of wireless data transfer depends on the hardware and software version of each product.

## SPECIFICATIONS

### MEASUREMENT RANGE

<b>Spherical power</b>	-29.00 to +26.75D (0.12/0.25/1.00/2.00/3.00 D step)
<b>Cylindrical power</b>	0.00 to $\pm 8.75D$ (0.25/1.00/2.00/3.00 D step)
<b>Cylindrical axis</b>	0 to 180° (1°/5°/15° step)
<b>Pupillary distance</b>	48 to 80 mm (far)/50 ~ 74 mm (near)
<b>Prism</b>	0 to 20 $\Delta$ (0.1 $\Delta$ /0.5 $\Delta$ /2.0 $\Delta$ step)

### REFRACTOR HEAD

<b>Auxiliary lens</b>	Occluder, Pinhole ( $\varnothing$ 2 mm), Red-green filter, Linear polarising filter, Fixed cross cylinder lens ( $\pm 0.50 D$ ), Red Maddox rod, Dissociation prism (3/ 6/ 10 $\Delta$ )
<b>Cross cylinder</b>	$\pm 0.25D$ , $\pm 0.50D$
<b>Retinoscopy</b>	+1.5 D / +2.0D
<b>Visual field</b>	40° (VD = 12 mm)
<b>Level adjustment</b>	$\pm 2.5^\circ$
<b>PD adjustment</b>	Monocular /binocular

### NEAR VISION

<b>Working distance</b>	35 to 70 cm (5 cm step)
<b>Near point chart illumination</b>	LED light

## DIMENSIONS & ELECTRICAL REQUIREMENTS

### PHOROPTER HEAD

<b>Dimensions WDH</b>	410 x 65 x 320 mm
<b>Weight</b>	3.9 kg
<b>Phoropter arm holder</b>	$\varnothing$ 21mm $\pm$ 0.5 mm

### CONTROL BOX

<b>Dimensions WDH</b>	230 x 235 x 65 mm
<b>Weight</b>	3.4 kg
<b>Display</b>	10.4" Colour TFT-LCD with touch panel
<b>Printer</b>	Built-in thermal

### POWER SPECIFICATION

<b>Power source</b>	AC 110/220V ( $\pm 10\%$ )
<b>Frequency</b>	50/60Hz
<b>Power consumption</b>	220-270VA



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