

# REFRACTION SYSTEM TAP-2000 / TCP-2002

AUTOMATED PHOROPTER & CHART PROJECTOR

## DELIGHT IN SIGHT

The perfectly matched duo  
for allround applications.



- Easy and fast operation via touch screen
- Equipped with all standard refraction tests
- Communication with chart monitors TCP-2000A/P, TCP-3000P/PX
- Different cross-cylinder + accurate rotary prism
- Data display with high contrast LCD + integrated printer

 **TOMEY**  
TECHNOLOGY AND VISION

# THE TOMEY TAP-2000 / TCP-2002 REFRACTION SYSTEM



## QUALITY IN DETAIL

### DATA TRANSFER

Transfer the objective data from the Tomey lensmeter and autorefractors to the TAP-2000 and the subjective data to a local PC.



### EASY OPERATION

The Tomey refraction system is operated by one control keyboard and all settings can simply be performed by an electronic dial. Due to the coloured keyboard, the intuitive touch screen and the integrated printer, the operation is very easy and effective.

## SPECIFICATIONS

### MEASUREMENT RANGE

<b>Spherical power</b>	-29.00 ~ +26.75 D (0.12 / 0.25 D / 1.00 D / 2.00 D / 3.00 D STEP)
<b>Cylinder power</b>	0.00 ~ ±8.75 D (0.25 D / 1.00 D / 2.00 / 3.00 D STEP)
<b>Cylinder axis</b>	0 ~ 180° (1° / 5° / 15° STEP)
<b>PD</b>	48 to 80 mm (far), 50 to 74 mm (near)
<b>Prism</b>	0 to 20Δ (0.1 / 0.5 / 2.0 Δ STEP)

### REFRACTOR HEAD

**Auxiliary lens** Occluder, Pinhole (Ø 2 mm), Red / green filter, Polarising filter, Fixed cross cylinder lens (±0.50 D), Red Maddox rod, Dissociation prism (3, 6, 10Δ)

<b>Cross cylinder</b>	±0.25D, ±0.50D, ±0.25D auto
<b>Retinoscopy</b>	+1.50 D (67 cm), +2.00 D (50 cm)
<b>Visual field</b>	40° (VD=12 mm), 39° (VD=14 mm)
<b>Level adjustment</b>	±2.5°
<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

### CHART PROJECTOR

<b>Chart change time</b>	0.2 sec
<b>Chart magnification</b>	30x
<b>Different charts</b>	42
<b>Projection distance</b>	2.5 to 8 m
<b>Illumination type</b>	LED

### DIMENSIONS & ELECTRIC REQUIREMENTS

#### Phoropter head

<b>Dimensions WDH</b>	410 x 65 x 320 mm
<b>Weight</b>	approx. 4.0 kg
<b>Phoropter arm holder</b>	Ø 21 mm ±0.5 mm

#### Controller

<b>Display</b>	Colour TFT-LCD 10.4" touch panel
<b>Printer</b>	Built-in thermal
<b>Dimensions WDH</b>	230 x 235 x 65 mm
<b>Weight</b>	approx. 3.3 kg
<b>Input</b>	AC 110~220V (±10%)
<b>Power consumption</b>	220-270 VA

#### Projector

<b>Dimensions WDH</b>	202 x 364 x 172 mm
<b>Weight</b>	approx. 4.7 kg
<b>Input</b>	AC 100~240V
<b>Power consumption</b>	60 VA



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