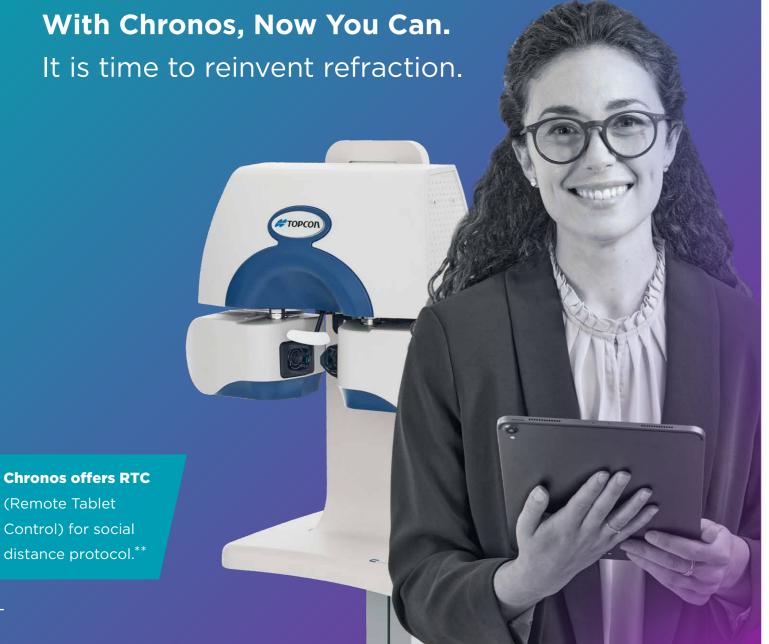
Chronos

Optimize workflow and grow your practice with guided binocular refraction.





Ineed to optimize workflow and increase patient convenience.



Increase patient convenience, optimize workflow and grow your practice - without compromise.

Chronos offers binocular autorefraction, keratometry measurements and visual acuity with subjective testing. Chronos is a single space-saving instrument that optimizes your workflow.



DELEGATE

• SightPilot™ is a guided refraction system that simplifies the exam and facilitates delegation.



GROW

• Chronos offers the versatility critical for growing your practice.



SAVE SPACE

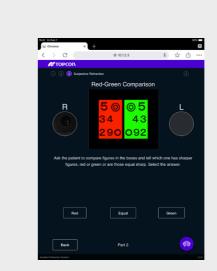
- Chronos combines binocular autorefraction and keratometry measurements with binocular subjective testing and visual acuity in a single instrument that occupies minimum space.
- Chronos reduces the number of conventional refraction lanes and additional refractometers needed.

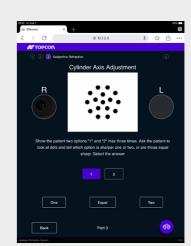
^{**}Applicable distance is subject to the device's communication performance and the communication environment.



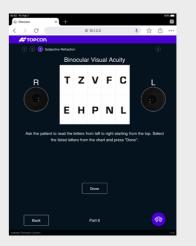
SightPilot™ is optimized for understanding and efficient workflow, facilitating delegation when required.

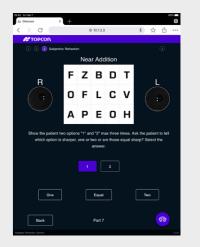
- SightPilot™ simplifies the user interface to provide a step-by-step guide through the refraction process.
- At each step, the operator is given instructions to proceed with the refraction, based on the patient's response.











Chronos combines binocular autorefraction and keratometry measurements with binocular subjective testing and visual acuity in a single instrument that occupies a minimal amount of space and optimizes workflow.



Chronos Specifications



FEATURE	SPECIFICATION	
Objective measurement		
Refraction measurement range	Spherical refractive power	-25D - +22D ¹
	Cylindrical refractive power	0D - ±10D 1
	Cylinder axial angle	1° - 180°
Corneal curvature measurement range	Corneal curvature radius	5.00mm - 10.00mm
	Corneal refractive power	67.50D - 33.75D (Conversion value when the corneal refractive ratio is 1.3375)
Minimum measurement unit	Spherical/cylindrical refractive power	0.12D
	Cylinder axial angle	1°
	Corneal curvature radius	0.01mm
	Corneal refractive power	0.12D
Display of measured value	Displayed on the screen of the operation controller	
Minimum measurable pupil diameter	φ2.0mm	
PD measurement range	50mm - 80mm	
Minimum PD measurement unit	0.5mm	
Subjective measurement		
Refraction measurement range	Spherical power/ADD/ Cylindrical power These must meet all the conditions mentioned at the right ⁴	-18.00D ≤ Equivalent spherical power ≤ +18.00D ²
		$-8.00D \le Cylindrical power \le 0.00D^3$
	Cylinder axial angle	1° - 180°
	Horizontal prism (One eye movable range)	±15.0 ⊿ ^s
	Vertical prism (One eye movable range)	±5.0 ⊿
Minimum measurement unit	Spherical/ADD refractive power	0.25D
	Cylindrical refractive power	0.25D
	Cylinder axial angle	1°
	Prism refractive power	0.1 △
Test distance	Far-/Near-point test distance can be set between 25cm and 6.096m	
Visual acuity measurement range ⁶	0.05 - 1.6 decimal	
Charts	Visual acuity charts, spherical power correction charts, astigmatism correction charts and binocular function charts	
Display of measured value	Displayed on the screen of the operation controller	
Record of measured value	Printing by thermal printer/external printer, data output	
Measuring head movement	Right-and-left direction	Inside -9.0mm to Outside +12.5mm
	Up-and-down direction	Down 15mm to Up 15mm
	Back-and-forth direction	Forward: 20mm - Backward: 20mm
Measuring head rotary angle	Convergence 17.5° to Divergence 8.5° (Eyeball torsion axis center)	
Power supply	AC100 - 240V 50-60Hz	
Power consumption	160VA	
Dimensions and weight (main unit)	525mm (H) × 722mm (W) × 278mm (D), 31.2kg	

*Not available in all countries. Please check with your local distributor for availability in your country.

- 1. The dioptric powers are indicated with reference wavelength λe = 546.07 nm
- The conversion value with "VD=12mm" is described here.
 The conversion value with the pupil power (VD=-3mm) is described here.
 The value described here is the maximum value. The measurement range is smaller according to the test distance setting for executing a test or the setting conditions of VD during measurement.
- 5. The value described here is the maximum value. The measurable range is smaller according to the combination of the patient's PD and the test distance
- 6. 0.1 1.6 complies with ISO 10938

IMPORTANT

Subject to change in design and/or specifications without advanced notice. In order to obtain the best results with this instrument, please be sure to review all user instructions prior to operation. Medical device MDD Class Im. Manufacturer: Topcon Corporation.





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