# Name: Autorefractor, Ophthalmic

**Purpose:** Evaluation of Visual Acuity automatically.

**General Description/ System Components**

Ophthalmic autorefractor. Unit is a tabletop model consisting of an instant display TV monitor, forehead rest, measuring head, height adjustment ring, and joystick lever. It features an automatic fogging and a high speed printer. Designed for visual acuity screening and to determine an individual's prescription by measuring how light is affected as it reflects through the eyeball. The process is providing data that ensures a baseline to determine the correct eyeglass or contact lens prescription.

**Technical Specifications**

| Category | Specification | Compliance | | If non-compliant, state your specs |
|---|---|---|---|---|
| | | Y | N | |
| Mobility/Portability | Portable | | | |
| Display/Measurements | Screen: 8.5” or larger LCD or LED, preferably touch screen | | | |
| | Measurement mode | | | |
| | Cataract mode | | | |
| | Alignment mode | | | |
| | Fog | | | |
| | Corneal diameter | | | |
| Refractive Power Measurement | Spherical refractive power: -25D to +22D (0.12D/0.25D steps) | | | |
| | Cylindrical refractive power: 0D to ±10D (0.12D/0.25D steps) | | | |
| | Astigmatic axial angle: 0°to 180° (in 1°or 5°steps) | | | |
| | Minimum measurable pupil diameter: ϕ2 mm | | | |

| Category | Specification | Compliance | | If non-compliant, state your specs |
|---|---|---|---|---|
| | | Y | N | |
| Corneal Curvature Measurement | Corneal curvature radius: 5.00 to 10.00mm (0.01mm step) | | | |
| | Corneal refractive power: 67.50D to 33.75D (0.12D/0.25D steps) | | | |
| | Corneal astigmatic refractive power: 0D to ±10D (0.12D/0.25 D steps) | | | |
| | Corneal astigmatic axial angle: 0°to 180° ( 1°/ 5°steps) | | | |
| PD Measurement Range | 20mm to 85mm (0.5mm step) | | | |
| Data Transport Terminal | USB (import) /RS-232C (Export) / LAN (Export) | | | |
| Approx. size (mm) | 550L x 290W x 510H | | | |
| Approx. weight (kg) | Not to exceed 15 Kg | | | |
| Similar to: | Topcon - KR-800A | This Area is for Technical Evaluation by Consultant | | |
| Typical Photo |  | | | |