

**Frey**



MANUFACTURED  
IN EUROPEAN UNION



# Chart LED Projector

## FR-1003

## FR-1003 - reliable, solid and accessible.

The FR-1003 optic projector is a modern device for examining visual acuity and other eye functions. It has been designed to provide maximum durability and efficiency. Thanks to the use of a LED as a light source, the device is maintenance-free. Three personalized test sequences can be programmed using the intuitive remote control. The projector is delivered with a remote control, projection screen, red-green and polarized glasses and a base, alternatively it can also be mounted on the wall.

### LED as a light source

The projector is maintenance-free (LED up to 500,000 hours). The displayed optotypes are clearer and more pronounced. It is possible to adjust the brightness of the presented optotype. The maximum power consumption is only 11W.

### Programmable test sequences

User can program 3 defined test sequences. Each program can contain up to 15 tests.

### Modern design

- Elegant streamline line
- Compact sizes
- Ergonomic remote control
- Optionally, it can be mounted on the wall

### The function of automatic switching off the diode

Allows to automatically turn off the backlight in the projector after a certain period of inactivity: after 5, 10 or 15 minutes.

### Large number of tests

Tests: • Letters • Pictures • Figures • E Snellen  
 • Landolt rings • Red-green panel • Dual polarizing panel • Astigmatism • Fixation point • Cross cylinder  
 • Schrober test • Worth • Stereo • Two-color balance  
 • Foria/Foria with fixation • Vertical and horizontal coincidence  
 Masks: • Vertical • Horizontal • Single • Red-green • Polarizing

### Keep visus function

This function allows to remember last displayed optotype in the projectors' memory.

| Device type          | FR-1003 LED Chart Projector   |   |
|----------------------|---|---|
| Display size         | 24" diagonal  |   |
| Number of optotypes  | 36  |   |
| Optotype change rate | ~0,3s   |   |
| Masks                | Vertical, horizontal, single, polarizing, red-green   |   |
| Available tests      | Letters, Pictures, Digits, E Snellen, Landolt rings, Red-green panel, Dual polarizing panel, Astigmatism, Fixation point, Cross cylinder, Schrober test, Worth, Stereo, Two-color balance, Foria / Foria with fixation, Vertical and horizontal coincidence |   |
| Distance from screen | from 2.9 to 6.1m (adjusted)   |   |
| Light source         | White LED diode   |   |
| Test brightness      | 220 cd /m2 (adjustable)   |   |
| Projection angle     | ± 15°   |   |
| Dimensions           | W310 x 191 x 200mm  |   |
| Weight               | 4kg   |   |
| Power supply         | 115-230 VAC 50/60 Hz  |   |
| Packing Contents     | Projector FR-1003 LED<br>Table stand or wall mount<br>Projection screen<br>Polarized glasses<br>Red-green glasses<br>Power cord   | Remote control<br>Dust cover<br>Battery AAA 2 psc.<br>Operation manual<br>Allen 2.5mm hex key |