



Wearable Wireless Adaptive Refractor



The new frontier in subjective refraction

The VisionFit SC is an innovative, electronic, mobile and wearable adaptive refractor. It performs a subjective sight examination and effectively replaces both the trial frame and the manual/electronic phoropter functionalities.

Wearable and mobile

The system is controlled using an Android tablet, making the examination fully wireless and giving the patient freedom of movement. VisionFit SC does not require the control of the patient's position making it ideal for non-cooperative patients.



Smooth and continuous adjustment

VisionFit SC is equipped with electronically controlled liquid lenses that, with their continuous movement, provide adjustable step resolution down to 0.05D. The VisionFit SC application drives the phoropter instantly, reducing the examination time and inhibiting the accommodation.

Eye-chart distance compensation

VisionFit SC allows the simulation of farsightedness even if the distance between the patient and the eye-chart is less than the standard distance considered as the far point (5/6 meters). The adaptive lenses compensate the working distance, allowing the doctor to perform far sight examination even in the smallest rooms.

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With the innovative adaptive optics of VisionFit I can make a more accurate subjective examination: finally, the patients can experience their best surgical option before surgery.

~ Dr. Claudio Panico (Ophthalmologist)

Technical Information

- **Spherical correction range:** -10/+10 D – up to -20/+20 D with the use of a provided additional lens.
Adjustable fluidity steps from 0.05 to 0.50 D.

- **Cylindrical correction range:** 0 to 10 D by steps from 0.08 to 0.50 D

- **Axis adjustment range:** 1-180° by steps of 1°

- **Corneal vertex distance range:** 10-18 mm

- **Manual pupil distance adjustment range:** 50-80 mm, separated right and left

- **Device free aperture:** 30°

- **WiFi Module:** Radicom, model: WiFiHU-a

- **Bluetooth Module:** IDATA, USB 2.0 Bluetooth Mini Class 2+EDR

- **Power requirement:** Voltage: 100-240 VAC, 50-60 Hz
Power consumption: 60 VA

- **Measurement:** Patient - Operator distance > 1 m



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