



Fondazione  
Cottino

## 2WIN for Vision

### DESCRIPTION:

Our project aims at enlarging the populations examined for vision defects by making available small, portable, cost-effective, non-invasive, easy-to-use and accurate multi-functional instruments and software platforms to detect multiple values and parameters targeting a variety of ocular pathologies.

### ABSTRACT:

The “2WIN For Vision” project is based on the 2WIN, a small, portable, hand-held, light, battery operated instruments Wi-Fi connected to the current mobile devices (phones/tablets) and on a 2WIN cloud platform for the storage and management of the exams data.

Project:

Portable non-mydratic refractometer and vision analyzer enables vision measurements on large numbers of patients in remote and under-served locations;

Effective early screening of amblyogenic factors;

Objective InfraRed cover test to measure angle K, tropias and phorias;

Early detection of cataract and keratoconus;

Features:

Binocular automated refractometry;

Over-refraction: check of correction in use over spectacles, contact lenses and trial lenses;

Pupil size;

Pupils distance;

Direction of Gaze;

Automated IR cover-test measuring angle K, phorias and tropias;

Dynamic pupillometry (pupil size vs. time and stimuli);

Cataract detection;

Keratoconus detection;

Connectivity and cloud Platform.