

# ES-HR800 & ES-HR880

Handheld auto-refractometers







## ES-<F, 007 '9G!<F, \$\$'

#### Handheld auto-refractometers



### Non-contact and non-invasive The light power is safe for eyes;

The distance between the instrument and the eyes is 35 cm (14inches).

#### • Child-friendly

Little cooperation is required, suitable for infants and those who have a language barrier.

#### Speedy inspection

One key operation to complete the automatic detection of two eyes.

#### Accurate result

The advanced optical detection principle provides an accurate result: including myopia, hyperopia, astigmatism, axial and anisometropia.

#### Comprehensive detection modes

Infant mode is specially designed for infants; Myopia mode is customized for myopia people even high myopia people (just for ES-HR880 only); Adult mode is suitable for all adults.

#### Easy targeting

The cross-shape light facilitates the targeting for operator.

#### Ultrasonic distance measurement

Automatic display of the distance with audible and visual hint.

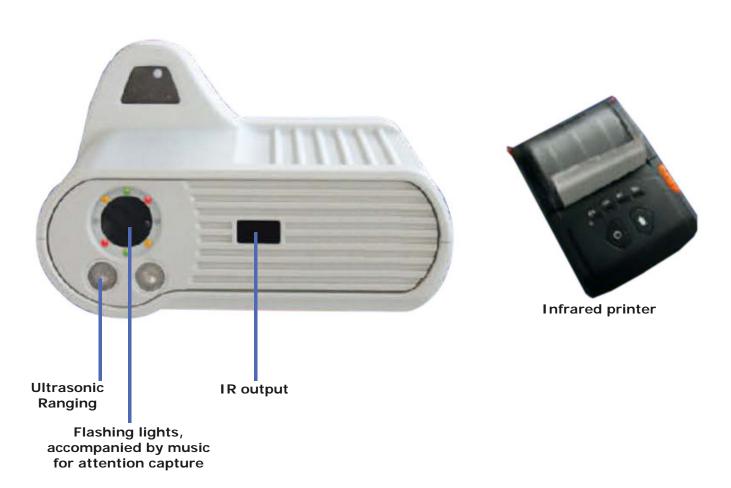
#### Printer

Thermal printer is connectable by infrared.

#### Weight

0.9kg







#### Technical Features

#### **Optical parameters**

Mode	Infant mode	Adult mode	Myopia mode (Just for ES-HR880)
Sphere range	-6.0D to +8.00D	-6.0D to +8.00D	-9.0D to +2.00D
Sphere intervals	0.25D / 0.1D	0.25D / 0.1D	0.25D / 0.1D
Sphere tolerance	±0.5D	±0.5D	±0.5D
Cylinder range	-3.0D to +3.00D	-3.0D to +3.00D	-3.0D to +3.00D
Cylinder intervals	0.25D / 0.1D	0.25D / 0.1D	0.25D / 0.1D
Cylinder tolerance	±0.5D	±0.5D	±0.5D
Axis of astigmatism range	1° to 180°	1° to 180°	1° to 180°
Axis of astigmatism intervals	1°	1° 1°	
Avia of actions tolerance	0.25D to 1.00D ±10°	0.25D to 1.00D ±10°	0.25D to 1.00D ±10°
Axis of astigmatism tolerance	1.25D to 3.00D ±5°	1.25D to 3.00D ±5°	1.25D to 3.00D ±5°

<sup>\*</sup>intervals are adjustable

#### **Function parameters**

Model		ES-HR800	ES-HR880
Detection modes		Adult Mode, enfant mode	Adult Mode, enfant mode, myopia mode
Working distance	Adult/Infant mode	335 ± 10mm	335± 10mm,
	Myopia mode	/	268±10mm
Distance detection		Automatic, with audible and visual signals	Automatic, with audible and visual signals
Data acquisition time		2s/eye	2s/eye
Battery voltage		DC 11,1V	DC 11,1V
Battery life		More than 6 hours of continuous usage	More than 6 hours of continuous usage
Low battery warning		Indicates 15 minutes usage remains	Indicates 15 minutes usage remains
Wavelength		850 ± 20nm	850 ± 20nm
Output of the laser ra	diation	150~200μW	150~200μW

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