

OX
90
VX

Fully Automated.
Intelligently Precise.



Fully automatic ARK

The VX 90 is an ophthalmic diagnostic device with refraction, keratometry and corneal radius functionalities. Automatic eye detection, focusing, and measurement—all in one seamless workflow with no manual intervention. Delivering fast, fully automated measurements with exceptional accuracy and repeatability.

- Easy-to-Use: Fully automated workflow
- Reliable result - advanced measurement & workflow algorithms
- Moving the fixation target to enable the peripheral keratometry
- Opacity assessment with retroillumination image
- The pupil diameter (PD)
- Motorized chin rest
- Printer : Easy load paper function and automatic cutting
- Responsive Touch Screen: 7 " TFT color LCD



Automatic and simple

The VX 90 obtains three primary measurements:



1

Objective refraction

- The objective refraction includes sphere, cylinder, axis, and pupillary distance.



2

Keratometry

- Central
- Peripheral



3

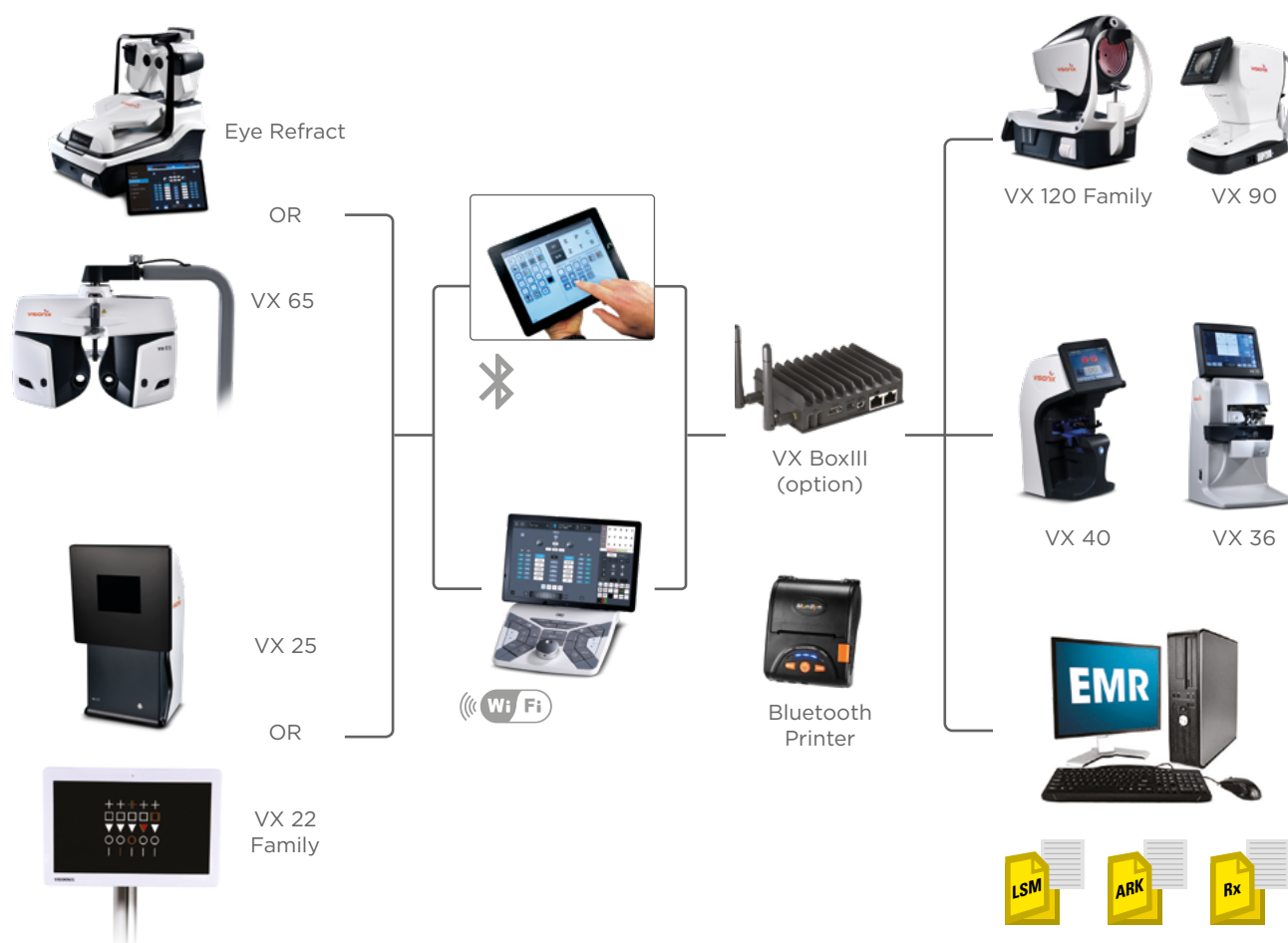
Lens opacity detection

- The backlighting feature allows for illumination of lens opacities.

Integrate with the Visionix suite of equipment and EMR*

- Centralized data management dashboard for seamless integration with external devices and EMR systems.
- Import data from compatible devices, including ARK and lensmeters, via VXbox.
- Export refraction data to your EMR system with a single touch.

* Electronic medical reports



Technical specifications

DIMENSIONS:

WIDTH	262mm (10.3in)
DEPTH	487mm (19.2in)
HEIGHT	467mm (18.4in)
WEIGHT	17 kg
VOLTAGE	100-240V, 50/60 Hz, 75 VA
STANDARDS	CE0051 CLASS Im

Compliance with
Medical Device Directive 93/42/EC

General	
Target Fixation	Auto fog system
Measurement data display	7" TFT colour LCD with touch screen (800x480)
PD Measurement	85 mm measuring range max, 1 mm display unit
Measurement data recording	Built in thermal printer
External output terminal	RS232/WIFI
Measurable range	
Power Range	-20 D to +20 D
Power Accuracy	+/- 0.25 D
Astigmatism range	0 to 10D
Astigmatism accuracy	0.25 D
Axis range	0° to 180°
Axis step	1°
Axis accuracy	+/- 5°
Pupil diameter measured	2 mm minimum
Keratometry specifications	
Corneal radius range	5 mm to 10 mm
Corneal refractory power	33D to 67D (n=1.3375)
Power repeatability	0.03 mm
Corneal astigmatic power	0 to 12 D
Astigmatism accuracy	0.02D
Axis range	0° to 180°
Axis step	1°
Axis accuracy	+/- 5°
Measurement diameter	2 mm to 12 mm
Peripheral keratometry	Nasal, temporal, up, down

Manufacturer:
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06
vx 90

Simplified
measurement,
precise results



ARK with auto fog system

The VX 90 is an ophthalmic diagnostic device with refraction, keratometry, and corneal radius functionalities. A moving fixation target with auto fogging minimizes accommodation to obtain the most precise reading.

- Specifically move the fixation target for peripheral keratometry
- Tilttable LCD
- Alignment Indicators
- Printer: Easy Load Paper function and automatic cutting
- Motorised Chinrest
- One-Touch Lock
- WIFI connectivity and EMR integration



Automatic and simple

The VX 90 obtains three primary measurements:



1

Objective refraction

- The objective refraction includes sphere, cylinder, axis, and pupillary distance.



2

Keratometry

- Central
- Peripheral



3

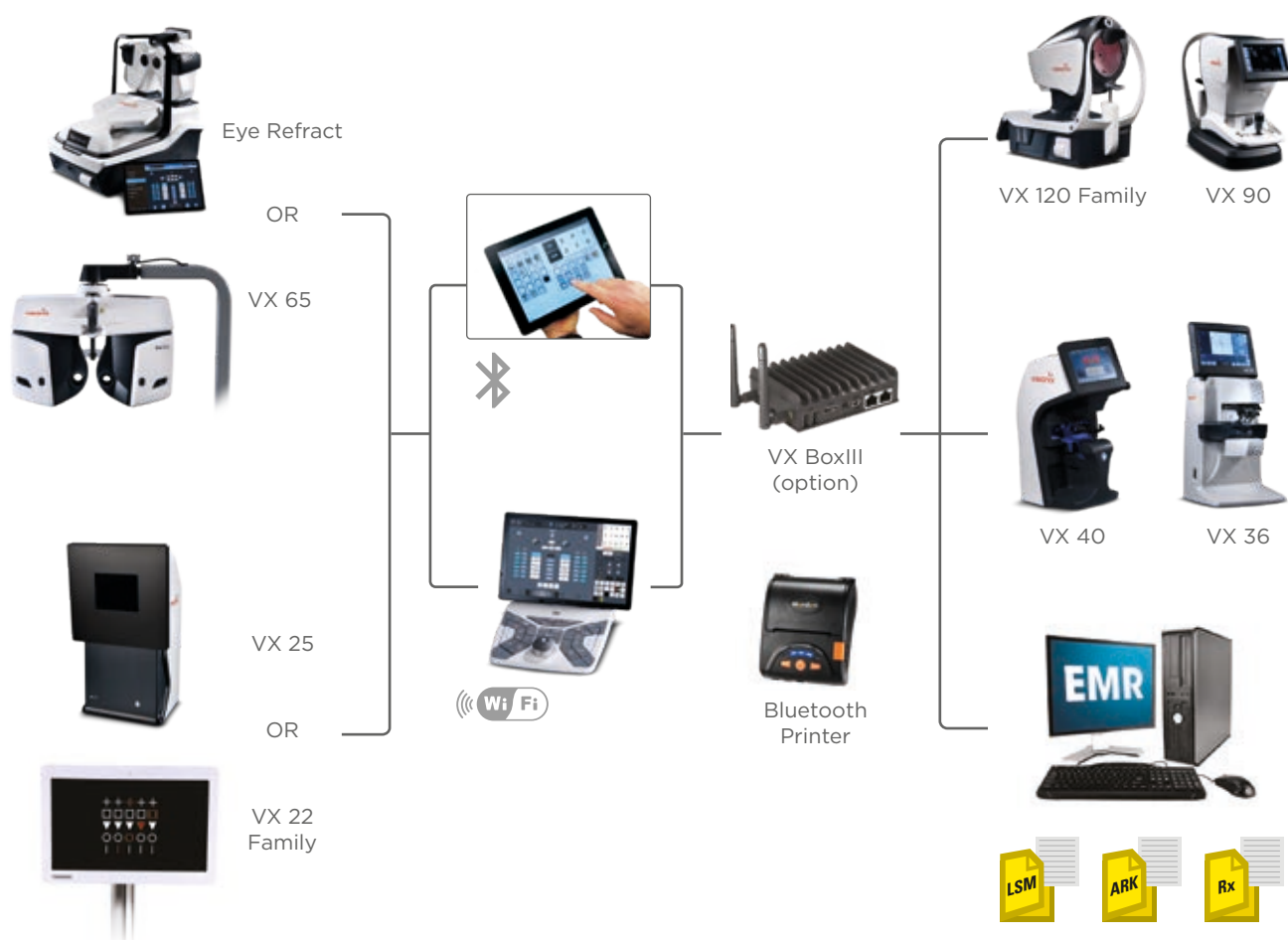
Lens opacity detection

- The backlighting feature allows for illumination of lens opacities.

Integrate with the Visionix suite of equipment and EMR*

- Full data management dashboard to manage your data from external devices (EMR/ARK)
- Import data wirelessly from other devices (such as AR/K and lensometers) via VXbox
- Export refraction data into your EMR system at the touch of a button

* Electronic medical reports



Technical specifications

DIMENSIONS:

WIDTH	288 mm (11.3 in)
DEPTH	500 mm (19.7 in)
HEIGHT	480 mm (18.9 in)
WEIGHT	14 kg (30 lbs.)
VOLTAGE	110V-240V AC, 50/60 Hz, 50 VA
STANDARDS	CE0120 CLASSE 1M

Compliance with
Medical Device Directive 93/42/EC

General

Target Fixation	Auto fog system
Measurement data display	7" TFT colour LCD with touch screen (800x480)
PD Measurement	85 mm measuring range max, 1 mm display unit
Measurement data recording	Built in thermal printer
External output terminal	RS232/WIFI

Measurable range

Power Range	-20 D to +20 D
Power Accuracy	+/- 0.25 D
Astigmatism range	0 to 10D
Astigmatism accuracy	0.25 D
Axis range	0° to 180°
Axis step	1°
Axis accuracy	+/- 5°
Pupil diameter measured	2,5 mm minimum

Keratometry specifications

Corneal radius range	5 mm to 10 mm
Corneal refractory power	33D to 67D (n=1.3375)
Power repeatability	0.03 mm
Corneal astigmatic power	0 to 12 D
Astigmatism accuracy	0.02D
Axis range	0° to 180°
Axis step	1°
Axis accuracy	+/- 5°
Measurement diameter	2 mm to 12 mm
Peripheral keratometry	Nasal, temporal, up, down



INNOVATION TO UNLOCK YOUR POTENTIAL

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