

INTELLIGENT VISION ANALYZER

Instructions For Use - User Guide



SIMPLE EFFICIENT RELIABLE



iVA Plus

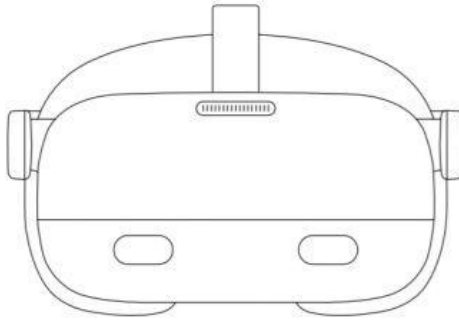
Intelligent Vision Analyzer is a portable visual field analyzer, a medical device designed to be used as a head-mount automated perimeter for the measurement of visual field abnormalities.

iVA+ is an automated visual field perimeter used to perform visual field tests. Visual Fields are important for the screening of several diseases that affect the visual function of the eye, including Glaucoma, Neurological Field Defects, etc.

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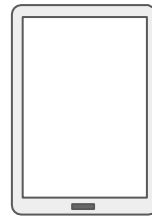
In the box



VR Headset x1



Controller



Lenovo
Tablet



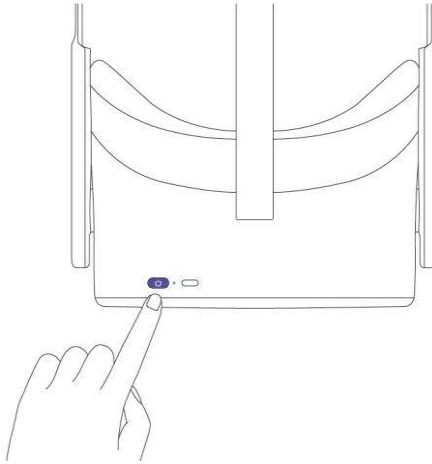
AC Adapter



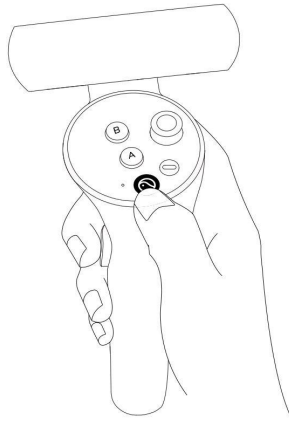
USB-C 2.0 Data
Cable x1

Powering ON the device

- Press the POWER button for 2 seconds. The status indicator will be a steady blue once powered ON.

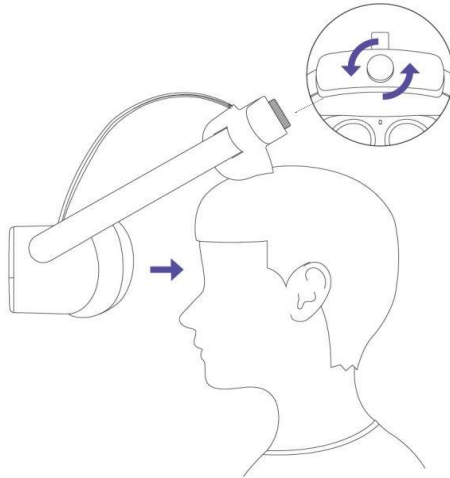


- Press the HOME button for 1 second. The status indicator will flash blue once powered ON.

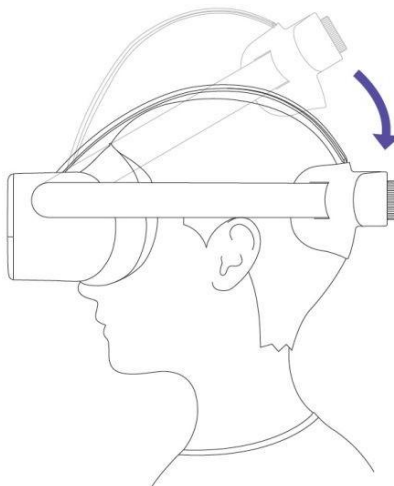


Wearing the Device

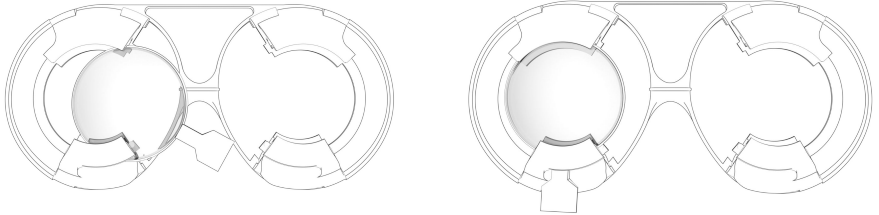
- Turn the strap dial anti clockwise to loosen the device.



- Rotate the strap down over your head. Turn the strap dial clockwise to tighten the device in comfortable position.



Lens Holder



- Insert the lens as shown above and rotate the clasp to lock in place

Power Correction

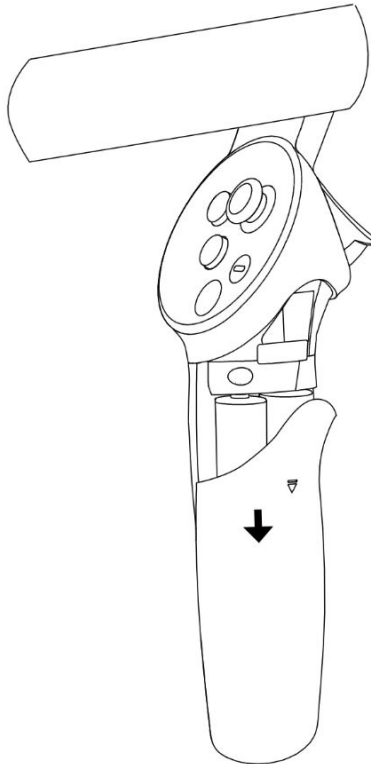
- Provide patients with the spherical equivalent power correction (only for distance vision) as per the following calculation
- Spherical Power + 1/2 Cylindrical Power = Spherical Equivalent (Lens Correction)

Sphere	Cylinder	Cylindrical Equivalent (To nearest calculated cyl)
0.00	-0.25	-0.00
0.00	-0.50	-0.25
0.00	-0.75	-0.50
0.00	-1.00	-0.50
0.00	-1.25	-0.75
0.00	-1.50	-0.75

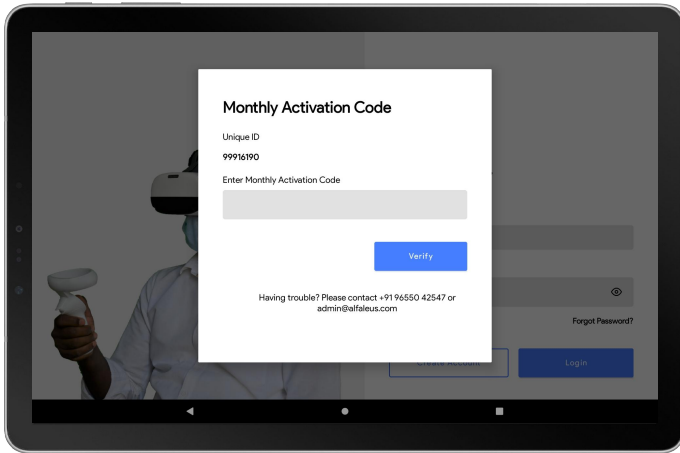
Sphere	Cylinder	Cylindrical Equivalent (To nearest calculated cyl)
0.00	-1.75	-1.00
0.00	-2.00	-1.00
0.00	-2.25	-1.25
0.00	-2.50	-1.25
0.00	-2.75	-1.50
0.00	-3.00	-1.50

Changing Controller batteries

- Press the area marked with an arrow and slide the cover down.
- Replace the batteries and slide the cover back up.









Monthly Activation







- Every month the above popup shall appear on your screen after login.
- Contact Lightbox and provide your Unique ID.
- Enter in the one-time “Monthly Activation code” provided by Lightbox.

Device Status Indicator Legend

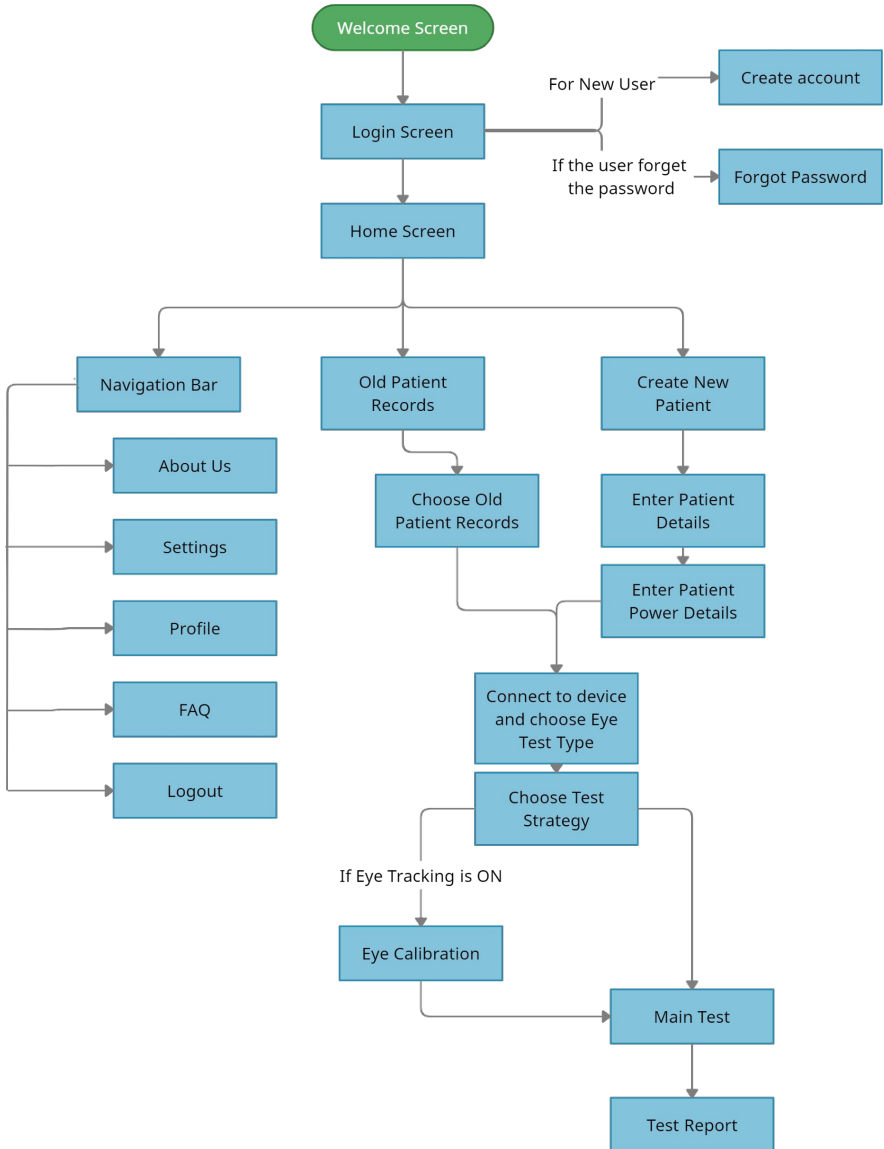
	Blue: Powered on with battery over 20%
	Yellow: Charging: Battery is less than 90%
	Red: Charging: Battery is less than 20%
	Red flashing: Battery is less than 20%
	Blue flashing: Shutting down
	Green: Charging Complete

Controller Status Indicator Legend

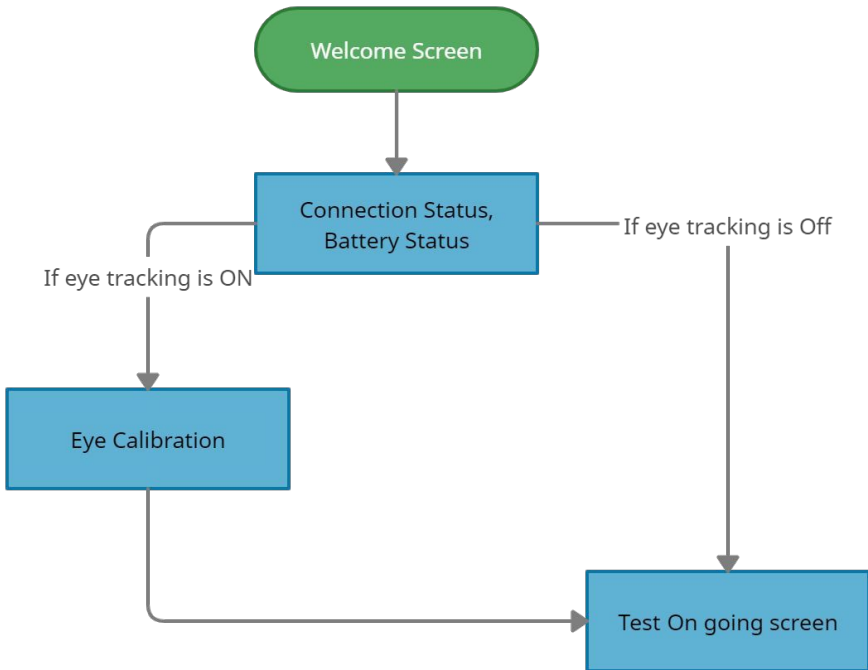
	Blue: Connected to Device
	Red: Charging
	Red flashing: Low battery
	Blue flashing: Searching for connection

Working Procedure

- iVA+ tablet software**



- **iVA+ HMD software**



Steps to create New Patient Record

The screenshot shows a mobile application interface for creating a new patient record. The title is "Create a new Patient record". The form contains several input fields: "Type in Patient's ID#", "Type in Patient's Name", "Type in Patient's Phone number", "Date of Birth", "Choose the Patient's Gender" (with buttons for "MALE", "FEMALE", and "OTHERS"), "Visual Acuity (Left)", "Visual Acuity (Right)", and "Type in Patient's Additional Comments". There is a checkbox labeled "Go to Power Correction" which is checked. A blue "Next" button is located at the bottom right of the form.

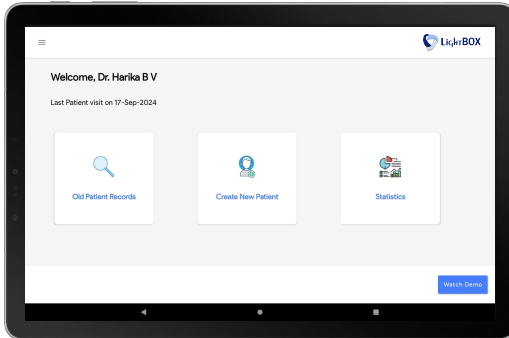
Enter all the patient details.

The screenshot shows the "Power Correction" screen. It is divided into two main sections: "Right Eye" and "Left Eye". Each section has a "Power Equivalent" field set to "0.00". Below these are three buttons: "Spherical", "Cylindrical", and "Axis". At the bottom left is a "Back" button and at the bottom right is a "Next" button with a right-pointing arrow.

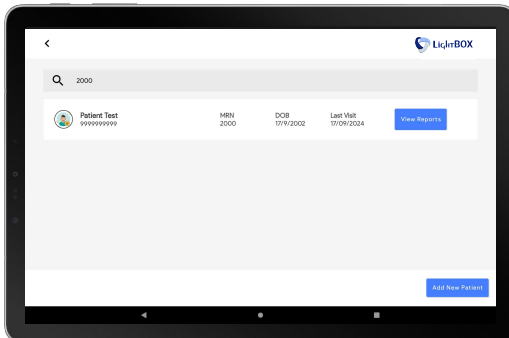
Optionally, you can enter the power of the patient for both the eyes.

Note: The power entry is only recorded in the report and does not influence the test

Steps to search Old Patient Record

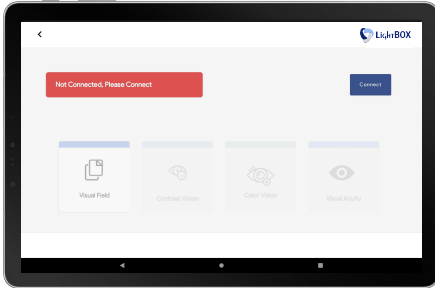


Click on Patient Records.

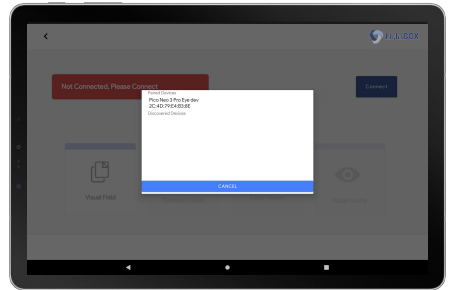


Search old patients using MRN
or Name or Phone number.

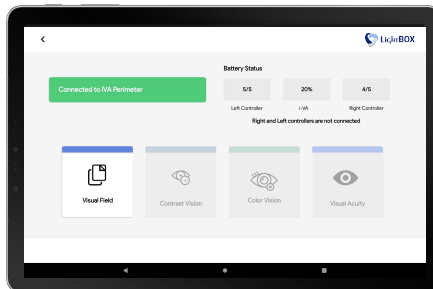
Steps to connect Tablet to Device



Click on “Connect” and choose the device from the popup.

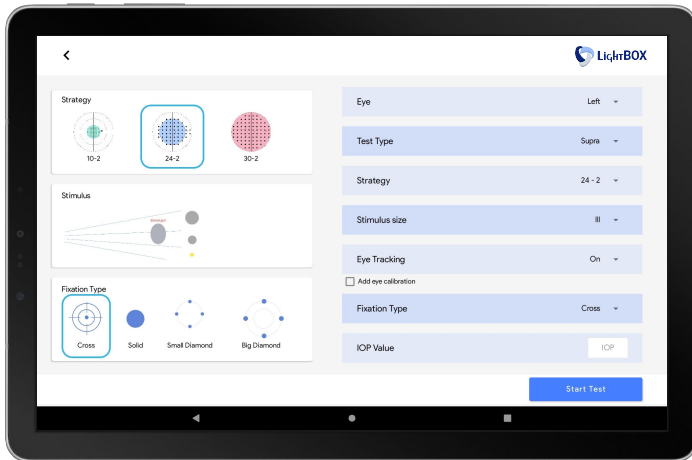


After choosing, connection establishes.



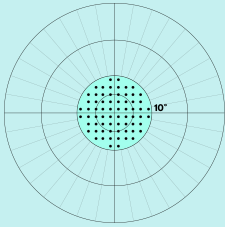
“Connected” to the device, Choose “Visual Field” for perimetry test.

Steps to choose Test Strategy

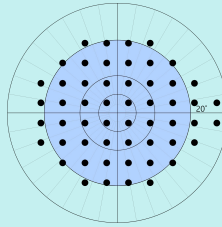


Eye	Right, Left
Test type	24-2, 30-2, 10-2
Strategy	Supra, Standard, Top
Stimulus size	III, IV, V
Eye tracking	On, Off
Fixation Type	Cross, Solid, Small Diamond, Big Diamond
Patient Onboarding	English

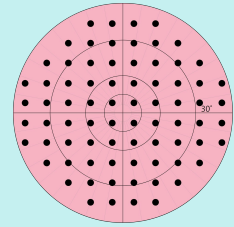
Test type



10-2



24-2

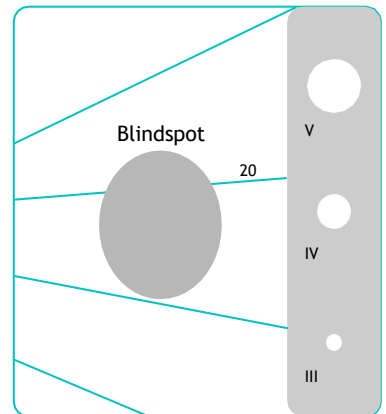


30-2

Strategy

	Intensity	Uses
Supra	Constant	Screening
Standard	Varying	Diagnosis
Top	Varying	Advanced Screening

Stimulus Size



Fixation Type



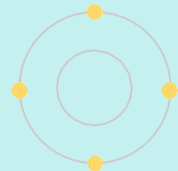
Cross



Solid



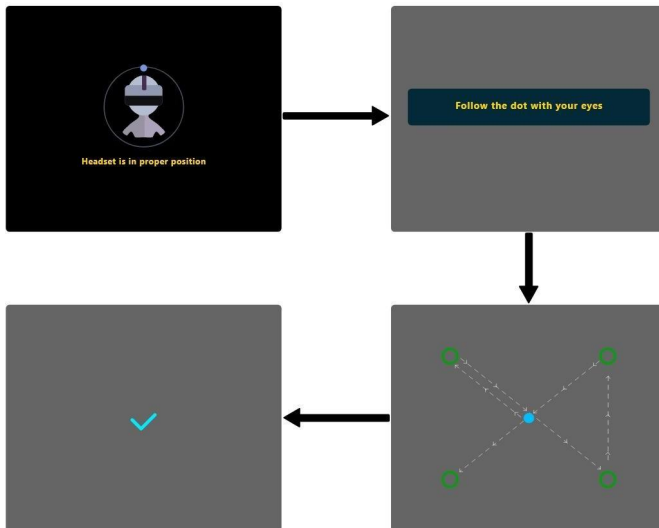
Small Diamond



Big Diamond

Performing Eye Calibration

Eye calibration is an optional step and can be performed on patients for whom the visual field test pauses frequently or takes longer than usual



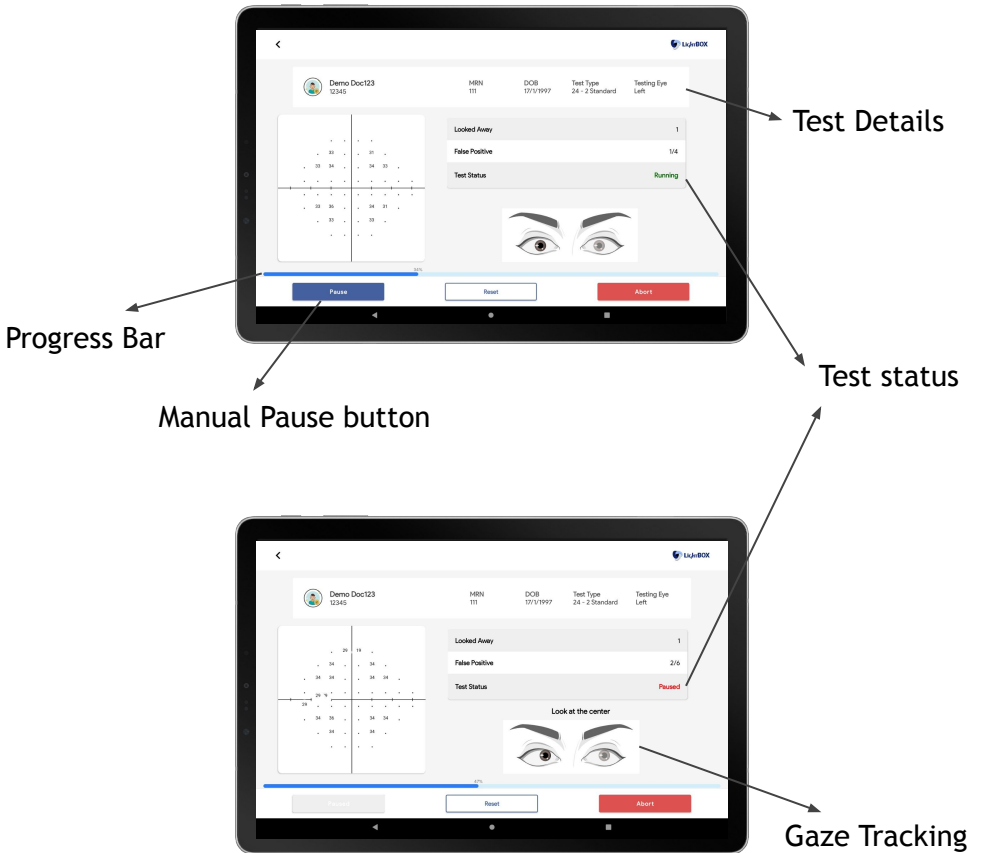
Step-1 : Adjust the position of the Headset.

Step-2 : Once the headset is positioned properly, a pop comes saying “Follow the dots with your eyes”.

Step-3 : Keep following the dot along with its movement, until Tick mark comes.

If a pop up saying “Calibration Failed” comes, repeat the process.

Testing Screen



The test automatically pauses when the patient looks away from the centre

Report Overview

1. Patient Details

2. Reliability Parameters

3. Raw Data

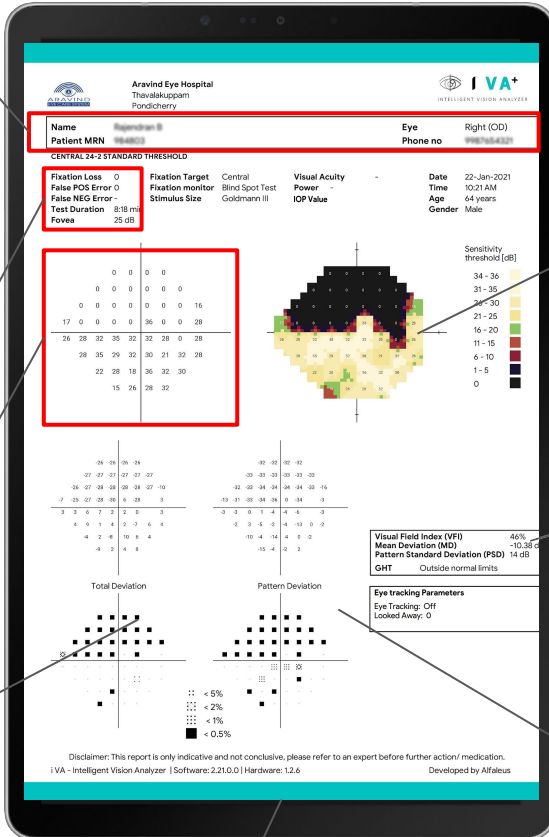
4. Total Deviation plots

5. Software and Hardware Versions

8. Threshold plot

7. Visual Field Index, Mean Deviation, Pattern Standard Deviation

6. Pattern Deviation plots















Specifications

Model name	iVA+ (Intelligent Vision Analyser)
Stimulus duration	200ms
Stimulus interval	1300ms
Reliability parameters	fixation loss, false positive
Stimulus color	white on white perimetry
Stimulus size	Goldmann Standard III, IV, V
Threshold strategies	Supra, Standard, Top
Screening test modes	Multiple Intensity
Test type	10-2, 24-2, 30-2
Fixation type	Cross, Solid, Small Diamond, Big Diamond
Fixation monitor	Blind Spot monitoring
Weight	360 gm

Troubleshooting

Effect	Cause	Troubleshooting
Double yellow dots	Squint /Convergence insufficiency / Accommodative insufficiency	Occlude one eye and perform the test
No yellow dot	Device software crash	Kill the app and restart fresh once again
Blurred yellow dot	Uncorrected refractive power	Can be corrected by attaching additional lenses
Test pausing repeatedly or for prolonged time	Eye tracking camera unable to capture the eye completely	Perform eye calibration

Symbols

	Manufacturer
 	Mandatory to refer instructions for use
	Warning
	Type BF applied part - Head Strap Applied part, is a part of the medical device that in normal use necessarily comes into physical contact with the patient
	Fragile, handle with care
	Keep Dry
	Waste Electrical and Electronics Equipment. Disposal of this product in an unlawful manner may have a negative impact on human health and on the environment. Therefore, when disposing of this product, be absolutely certain to follow the procedure which conforms with the laws and regulations applicable to your area.
	This Way Up
	Packaging can be stacked up to 4 layers high
	Recyclable product packaging
	Temperature range

Warranty

Alfaleus Technology Pvt. Ltd. warrants the iVA Plus Device to be free of original defects in material and workmanship and to perform in accordance with the manufacturer's specifications for a period of one year from the date of purchase. If this device or any component thereof is found to be defective or at variance with the manufacturer's specifications during the warranty period as solely determined by Alfaleus, Alfaleus will repair or replace the device or components at no extra cost to the purchaser.

This warranty only applies to the device purchased from Alfaleus or its authorized distributors or representatives. Return the device directly to Alfaleus or an authorized distributor. The shipping costs need to be borne by the shipper.

This warranty does not cover breakage or failure due to tampering, misuse, neglect, accidents, modification or shipping, Fungal growth on lens and is void if the device is not used in accordance with manufacturer's recommendations or if opened, repaired or serviced by any company other than Alfaleus or an authorized representative of Alfaleus.

No other express or implied warranty is given.



**LightBOX Medical Surgical
Equipment trading LLC**

Al Qusais industrial area 4
Dubai, UAE

+971527813865
Sales@lightboxuae.com

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