




Capture i
User Guide

General Usage Consideration

- Capture-i software is available for free on the App Store 
- Capture-i requires an iPad 3 and above. Best results are obtained with an iPad 4
- iPad 1 and 2 are not compatible with Capture-i
 - Camera resolution is too low
 - Processor is too slow

In The Box



Capture-i unit
to clip-on the iPad



Jig



USB cable
to charge the device
every 400 captures



Spanner
to tighten or loosen
the Jig

Manual Index

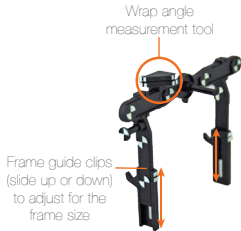
I	Preparing the device	1
	iPad preparation	
	Jig fitting and set up	
II	Shooting screen overview	2
III	Distance PD measurement	3
IV	Panto VCD measurement	4
V	Near Vision PD measurement	4
VI	Dominant eye measurement	5
VII	Fine tuning and results	6
	Distance PD measurement	
	Near vision PD measurement	
	Panto VCD measurement	
	Glossary	7

I Preparing the device

iPad preparation



Jig fitting and set up




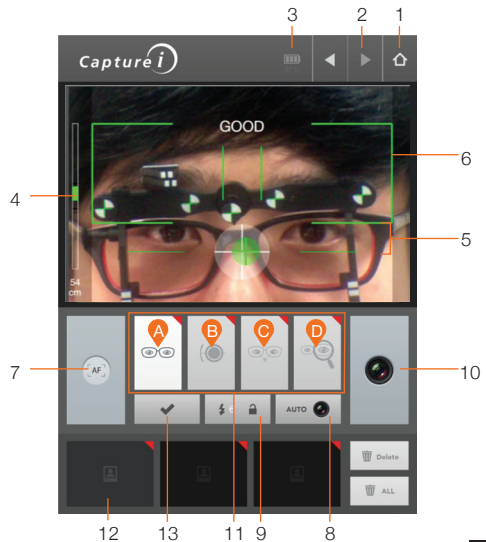
1. Select a slot by clicking on one of the six squares
2. Go to the next screen by clicking on the right arrow

Choose your language and add shop information

If you select a slot with existing picture, the new picture you take will overwrite the stored picture and the measurement.

II Shooting screen overview

1. Home button
2. Navigation buttons
Photo taking → Fine tuning → Results
3. Battery indicator
 - 400 captures per charge
 - Charge via USB
4. Distance indicator
 - Green : good distance (between 51 to 56cm)
 - Red : too far or too close
5. Eye level : the patient's eyes should be in that zone
6. Jig position : the jig indicators  should appear in this area
7. AF- Autofocus : press before taking the picture if the image is blurry
8. Auto Capture button
9. Flash control : adjust flash if default settings don't provide good results
10. Photo capture : press to take the picture
11. Measure selection
 - A- Front picture
 - B- Side picture
 - C- Near PD
 - D- Dominant Eye
12. Photos taken
13. Connection check indicator



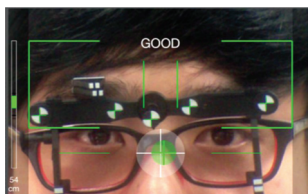
III

Distance PD measurement

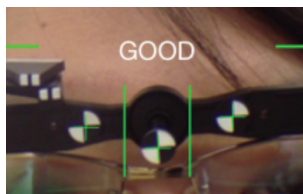


Recommendations for a good measurement

1. Make sure that you are at the right distance. The gauge on the left side of the screen is green if the distance is good and red if it's not.
Distance indicator
 - Green : good distance (between 51 to 56cm)
 - Red : too far or too close
2. The whole frame i.e the five jig marks have to be in the brackets.
Jig position : the jig indicators should appear in this area
3. Position the central jig marker in the middle of the two central vertical green lines.
4. Take the picture.

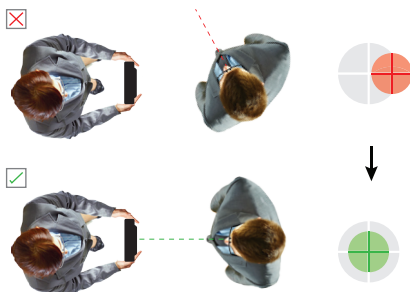


Before taking the picture make sure that the patient focuses on the red dot (infinite optics target)

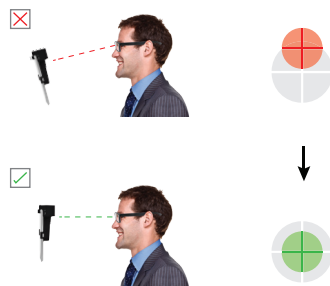


Make sure that the central marker fits nicely within the two vertical lines

Ask the patient to face you



Adjust the inclination of the iPad



To take measurement easier, use the auto capture button. The picture will be automatically taken when "GOOD" appears.

IV

Panto VCD measurement

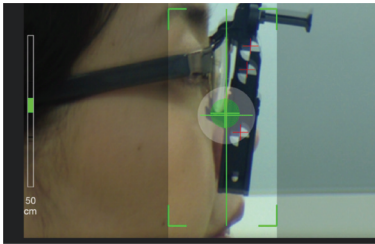


■ Setting the distance

Make sure you are able to see the 3 jig markers. The jig  and the spectacle frame should fit within the bracket displayed on the screen.



This icon will appear on the screen if the head is not in the correct position : lifted or inclined.



To get an accurate pantoscopic tilt, make sure that the wearer is in a comfortable & natural position and is looking at eye level. It is good to have some target in the distance that you can tell the wearer to focus on.

V

Near Vision PD measurement



1. Preparation of the measurement.
The customer should be holding the iPad within reading distance (as if reading a book).
2. Gaze Direction.
Make sure the customer looks at the camera located on the top of the iPad so her eyes will be visible and ensure the five markers on the Jig are in between the green brackets on the screen.
3. Take the picture.



Make sure that the central marker fits nicely within the two vertical lines (See Page 3)

Once the picture is taken, 3 colors on the corner of the picture will indicate the accuracy of the measurement which appear at the the bottom of the screen.



Good accuracy



Acceptable accuracy

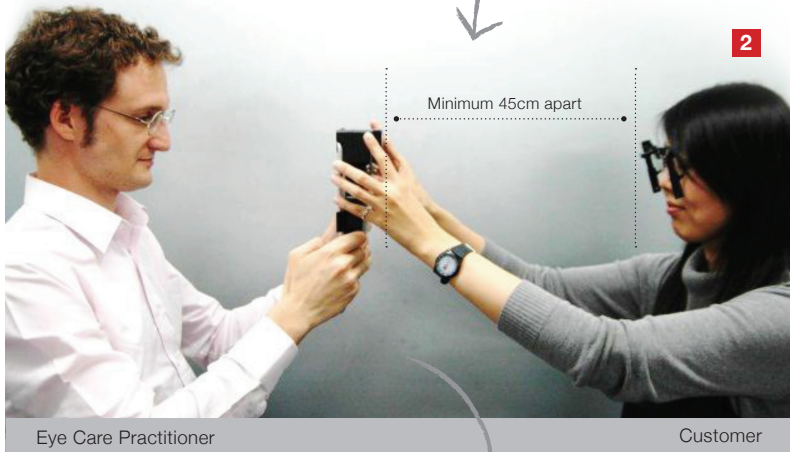


Picture needs to be retaken

VI Dominant Eye measurement

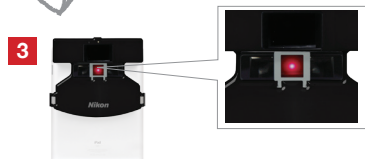


1. Fold up the small grey plastic piece.
2. Setting the distance.
The client should be at a minimum of 45 cm away from the iPad.
3. Ask if the client sees the red dot coming out from the box through the plastic piece.
4. Take the picture.



Eye Care Practitioner

Customer

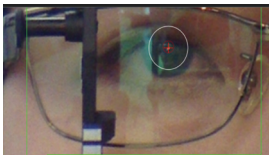


VII Fine tuning and results

- After taking all the pictures, Capture-i requires a fine tuning of the measurements in order to receive the most accurate results.

Important : to zoom in and out, double tap on the screen.

Distance PD measurement



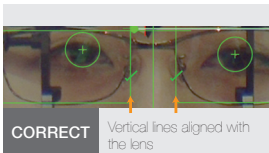
Center the cross on the red corneal reflection. The Auto button can be useful



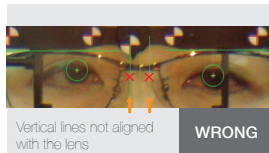
To adjust the boxing, select the green lines and place them on the outer edges of the lens.



Auto button will automatically center the circle on the corneal reflection



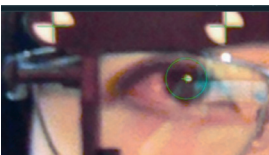
Vertical lines aligned with the lens



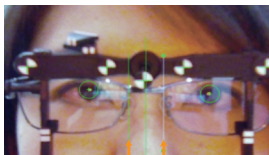
Vertical lines not aligned with the lens

A precise boxing is necessary to avoid any inaccurate measurements.

Near vision PD measurement



Find the corneal reflection: center each circle on the corneal reflection



Bridge adjustment :

Adjust both side of the bridge. Click alternatively on both vertical lines in order to move them



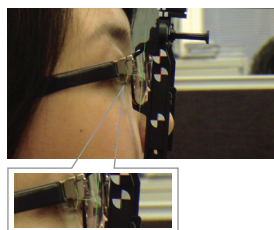
Auto button will automatically center the circle on the corneal reflection

- Important** : circles should be centered on the corneal reflection, not the center of the pupil.

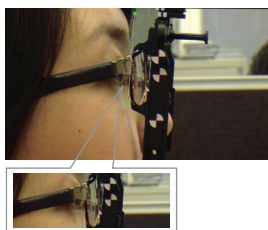
Panto VCD measurement

If you can not see the eye because the frame temple is too wide, then you have 2 options:

1. Take a picture from a lower or higher angle.
2. Check on the wearer after the picture is taken.



The half circle should be positioned on the cornea



The vertical line highlighted on the picture should be positioned on the middle of the lens

Glossary

RPD	Right monocular distance PD
LPD	Left monocular distance PD
PD	Binocular Pupillary Distance
BoxA	Lens width
BoxB	Lens height
REP	Right Optical Height
LEP	Left Optical Height
BoxED	Longest Diagonal
DBL	Bridge Size
FFA	Wrap angle
VCD	Vertex distance
PT	Pantoscopic Tilt Angle
RNPD	Right Monocular Near Pd
LNPD	Left Monocular Near Pd
NPD	Binocular near PD
DE	Dominant eye
RD	Reading distance

Patient name: Jane doe

Account information: A/N : 33000 DATE : 2013-04-24 09:56:48

Measurement results

parameter	prescription		BoxA	BoxB	REP/LEP	BoxED	DBL
RPD/LPD	30.5 / 31.5	62.1	62.0	31.8	18.8 / 17.6	69.7	15.7
FFA	VCD	PT	RNPD/LNPD	NPD	DE	RD	
28.4	12.0	10.8	26.9 / 32.5	59.4	R	31	

Prescription

Sph	Cyl	Axis	ADD	BASE
1.00	-3.25		0.50	B.I.
-0.75	-3.00		0.25	B.I.
-0.50	-2.75	0°	0.00	
-0.25	-2.50	1°	+0.25	B.O.
0.00	-2.25	2°	+0.50	B.O.

Print **Email** **Press to take a screenshot**



www.nikon-lenswear.com

Capture *i*

Nikon and other Nikon trademarks and trade dress are owned by Nikon. Nikon registered Trademark. All other product or service name are the property of their respective owners. © 2013 Nikon Co., Ltd. All rights reserved.