

NIDEK Co, Ltd.

Product Development E/X3, Medical Division

OPD-Scan III Development team



What's new of OPD-Scan III



Ease of use



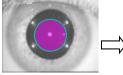
- · Total size decrease, Nidek new standard design
 - Tilt LCD, Automatic cutting printer, motorized chinrest

More accurate



Measurement Area

Measurement Speed



1.2 time/s

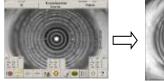


1 times/s

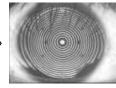
•Cornea area Current Φ6.0 to МАХ. Ф 9.5

•20% faster

<CT>



19 rings/ **Red Placido**



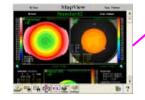
33 rings/ **Blue Placido**

•70%up measurement points

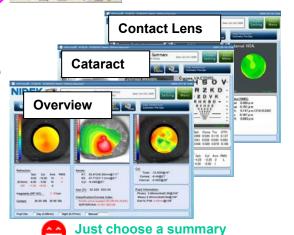
•Pupil image is not showing, so accurate placido edge detection

Simple operation

MAP & Layout selection



Must select the Maps, Layout and **Settings**



Ease of Service

•Fixed Map Layout

for purpose





for your purpose

- •No.1 claim report: HDD (12%) 🗲 Change to SSD
 - Security software available/Windows desktop is only for service
 - •Possible to update software (firmware also) by USB memory

For Cataract Market

- •Map layout for Cataract (include the Retro image)
- •Corneal power for IOL power calc. (App, ECCP)
 - •Work with IOL-Station





Graphic user interface



Measurement screen



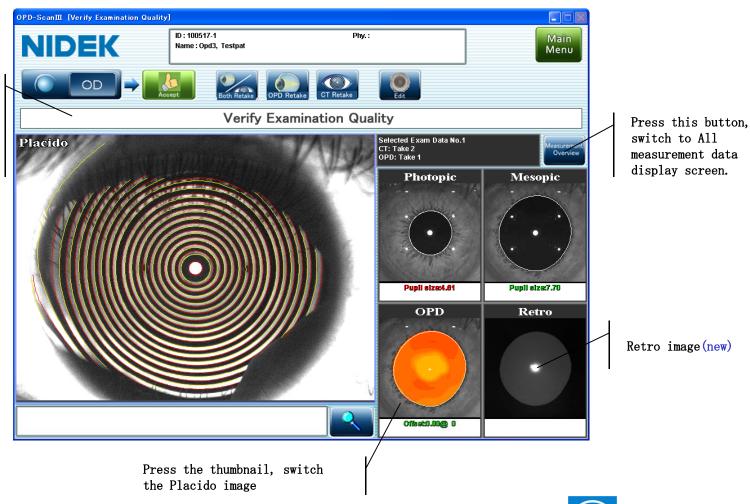
Laid out buttons on upper part of screen (on all of screen)

Verify Examination Quality



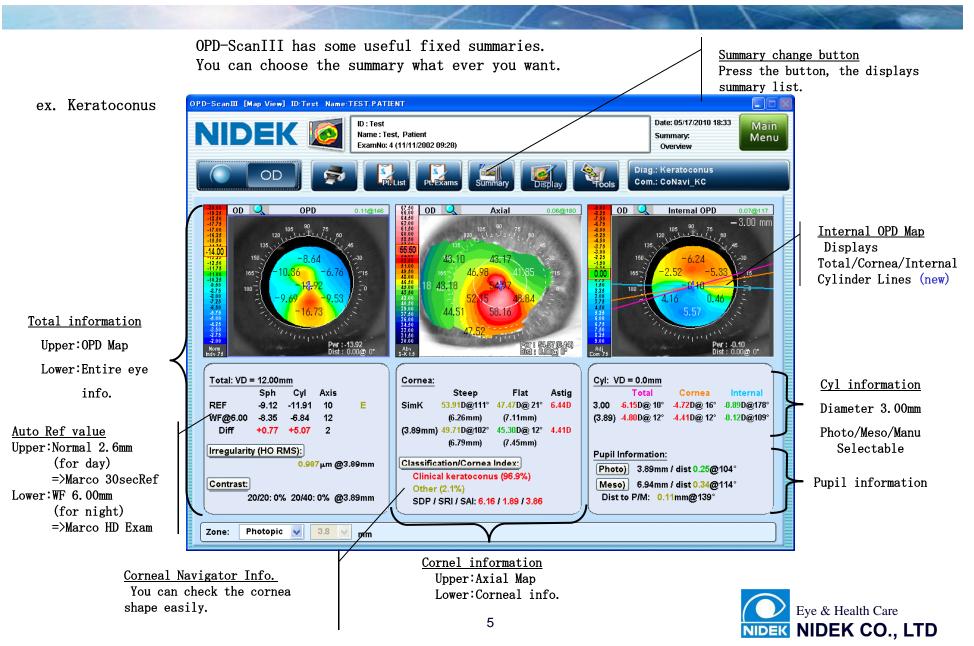
Measurement screen changes to this Verify screen automatically after measurement, then you can check the measurement conditions of OPD, Placid ring trace, Photopic/Mesopic/Retro images.

Automatically selected the best examination from multiple measurements.



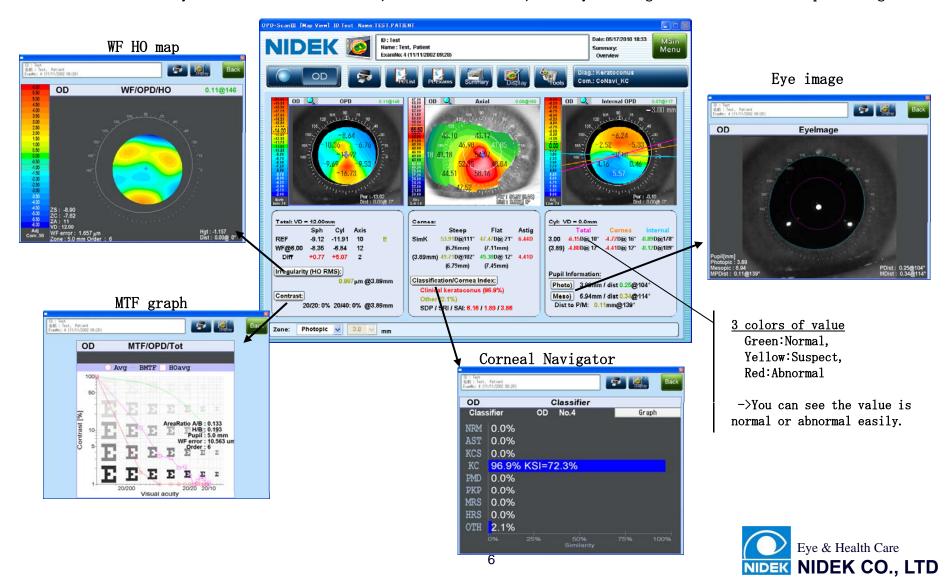
Overview







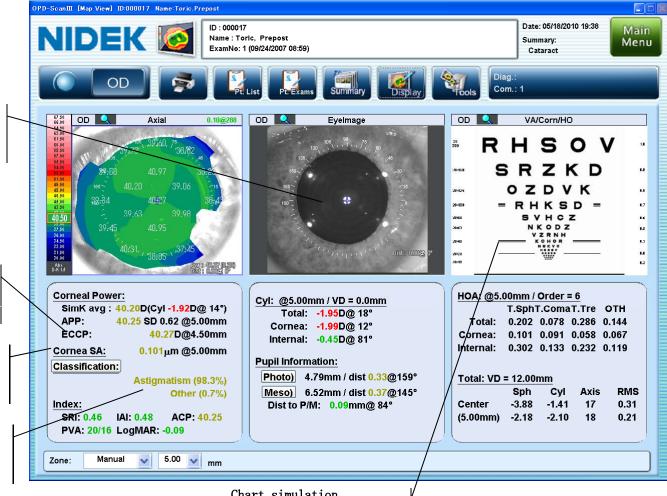
If you need more information, click the button, then you can get the relational maps & images.



Cataract summary



Cataract summary has many useful information for Cataract surgery.



Retro image You can see the

crystal lens condition,

Corneal powers for IOL power calculation

ECCP: for LASIK eve (from Dr. Holladay)

Cornea SA

for Aspheric IOL Info.

Cornea shape

You can check the cornea shape easily.

Chart simulation

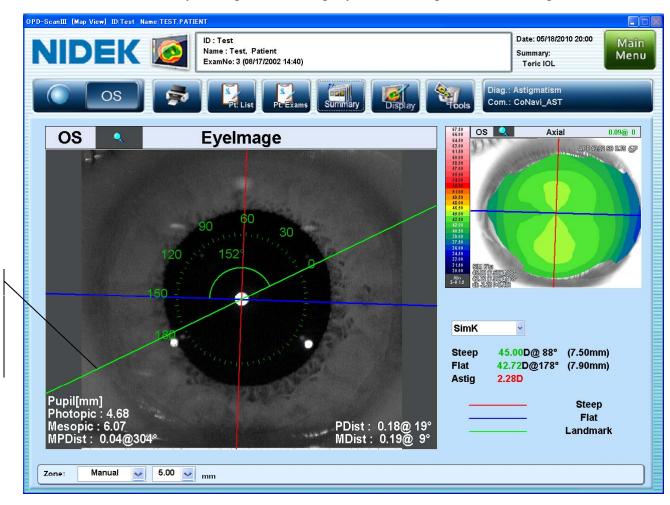
You can see the patient visual acuity after Cataract surgery,



Toric IOL summary



This is a special summary for implanted Toric IOL surgery. You can see the same eye image when surgery that using Toric IOL Gage & Marker.



Gage Axis
Click the
characteristic image
on iris, then the
Green line moves this
position, and angle
scale be '0'



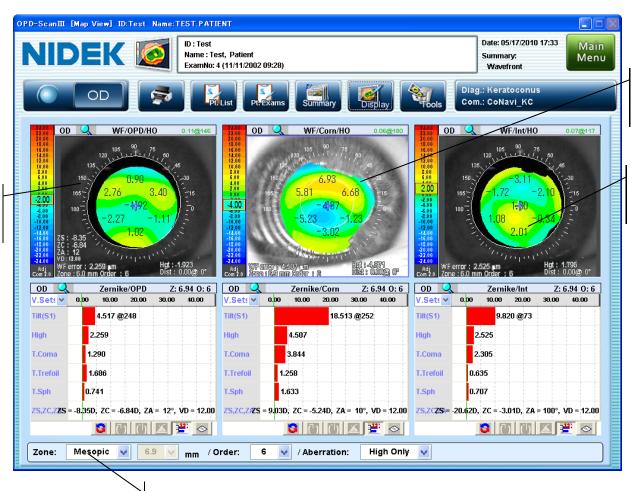
Wavefront summary

Total Eye info.

Upper: Total HO Map Lower: Zernike graph



OPD has 3 position of the wavefront information, Total, Cornea, and Internal. You can see the irregular which portion cause.



Corneal information

Upper: Cornea HO Map Lower: Zernike graph

Internal information

Upper: Internal HO Map Lower: Zernike graph

Change the diameter of analysis Photo/Meso/diameter input

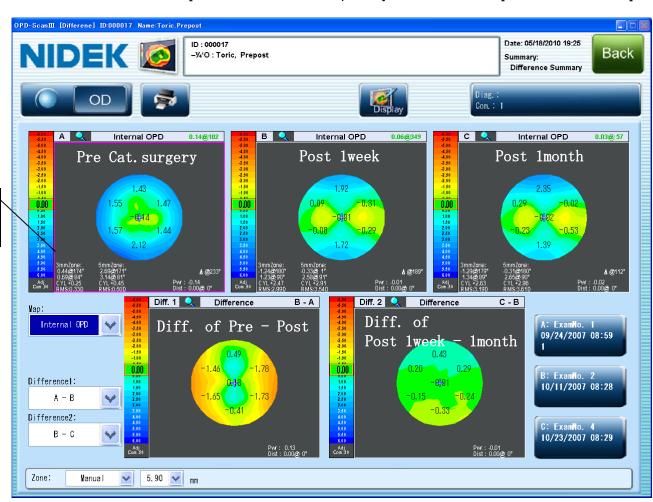


Difference map

Upper: Source maps Lower: difference maps



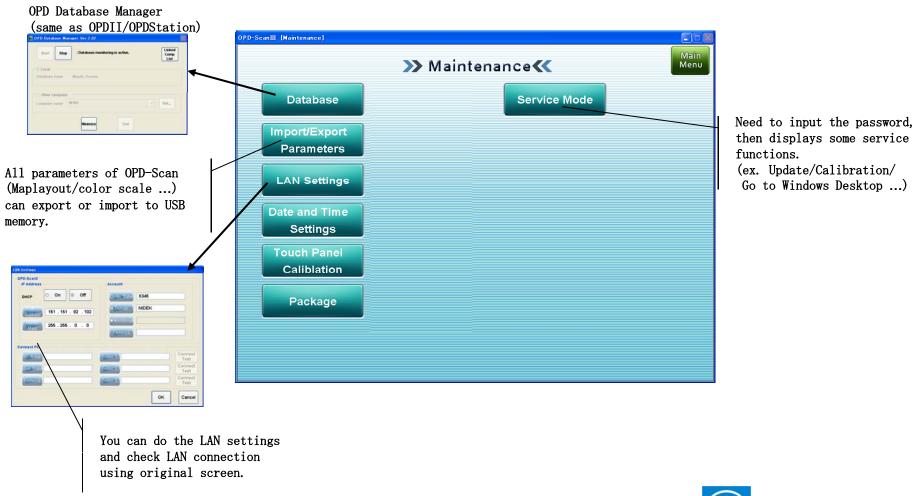
You can see 2 difference maps at the same time, easy to check the patient follow up.



Maintenance



All settings what you need are available on the "Maintenance" screen. You don't need to use Windows functions.



Security



Security software (McAfee Embedded Security) is pre-installed on OPD-ScanIII.

McAfee Embedded Security

==> No need update the pattern file.

