Cobra+

NON-MYDRIATRIC FUNDUS CAMERA

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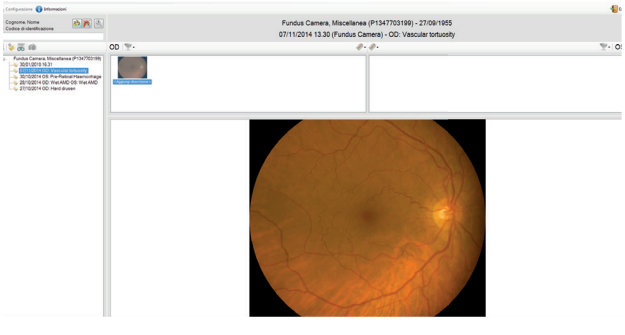
cobra+ is an easy to use, non-mydriatic digital fundus camera. The 5 mega pixel camera produces high resolution retinal images up to a 50 degree visual field. Cobra+ can capture images through a very small pupil diameter (2.5mm).
Images can be transferred to the Phoenix software platform for analysis and review.

Cobra+ has 9 internal fixation points which allows the capture of the peripheral retina, in order to give a panoramic image of the peripheral areas. The automatic measure of the "Cup to Disk" ratio is very useful and fast in the glaucoma screening. Thanks to Phoenix is it possible to overlap the retinal image with the ERG multifocal test performed by Retimax.

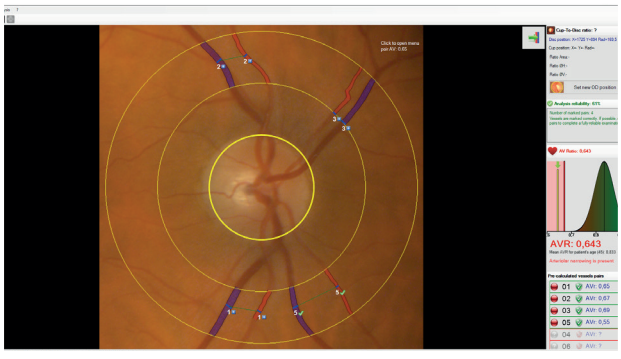
FEATURES OF THE SOFTWARE PHOENIX

Cobra+ uses the Phoenix software platform allowing patient data to be saved for future review and analysis, shared by all CSO devices.



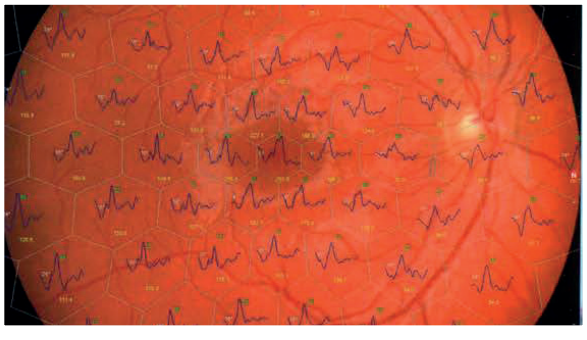
AVR EVALUATION MODULE (OPTIONAL)

The AVR tool measures the ratio between the branch arteriolar-venous diameter. A low ratio between the dimension of the vessels, may be predictive of cardiovascular problems in adult patients.



INTEGRATION TOOL WITH ERG TEST*

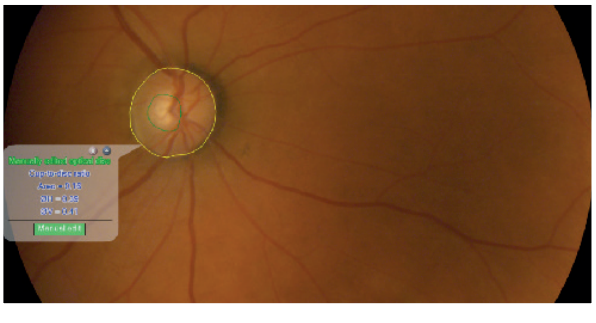
The image of the retinal fundus provided by COBRA+ can be combined with the multifocal ERG test, performed with the RETIMAX device. This new module provides a precise indication of the functionality of every analyzed retinal area; it is very useful for the diagnosis and follow-up of Macular Degeneration as well as degenerative hereditary retinal diseases.



*optional module

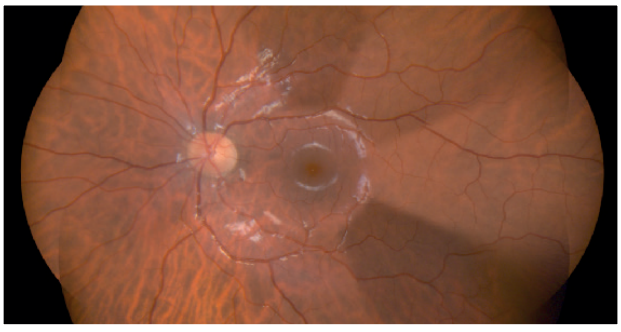
CUP TO DISK MEASUREMENT

The measurement of the Cup to Disk ratio is easliy achieved using the built in measurment tools that are available in the Phoenix software platform for the detection of glaucomatous disease.



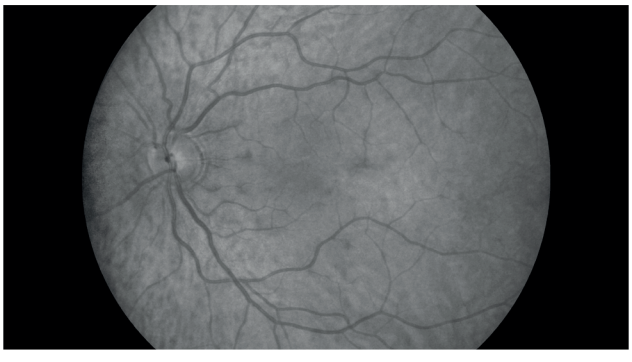
MOSAIC FUNCTION

Cobra+ can capture multiple images which can be combined together to create a panoramic image of the peripheral retina.



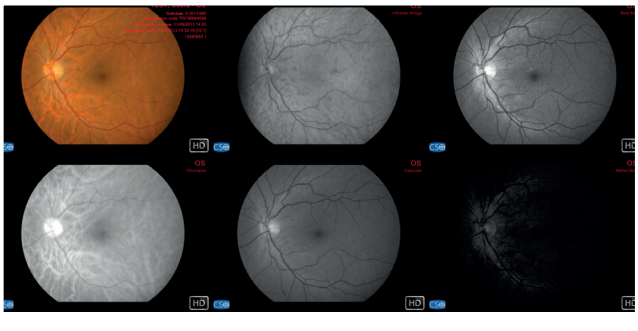
INFRARED IMAGE ACQUISITION

The image is acquired using a low flash level and infrared light, producing a very detailed image of the retina.



MULTIPLE WAVE-LENGTH IMAGES

Multiple wave-length images can be displayed on one screen: the original image, infrared image red-free image; as well the choroidal, vascular and nerve fiber images.



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TECHNICAL DATA

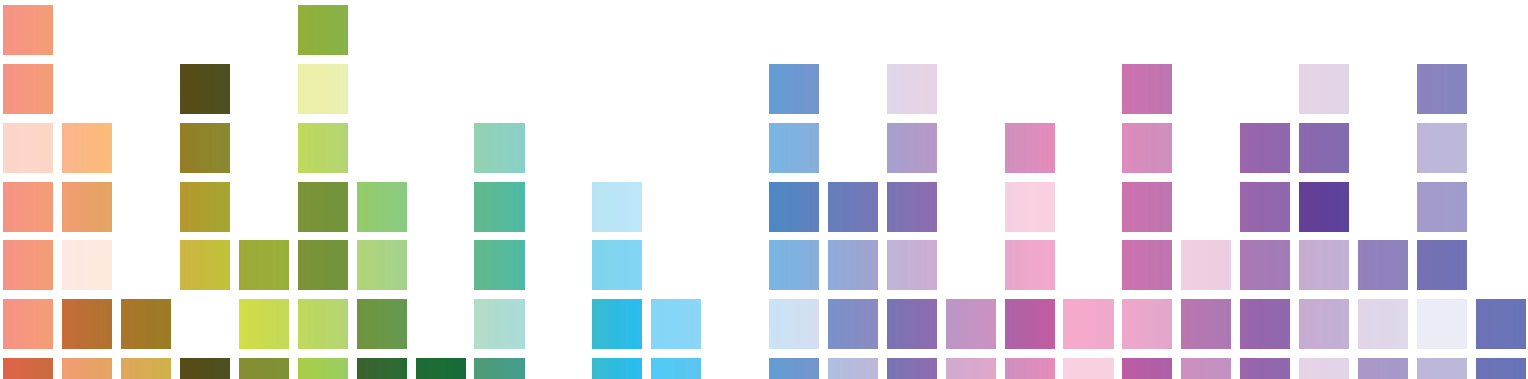
Data transfer	USB 3.0
Power supply	external power source 24 VCC In: 100-240Vac - 50/60Hz - 0.9-05A - Out: 24Vdc - 40W
Power net cable	with plug C14
Dimensions (HxWxD)	420 x 315 x 255
Weight	6Kg
Chin rest movement	70mm ± 1mm
Minimum height of the chin cup from table	24cm
Base movement (xyz)	105 x 110 x 30mm
Working distance	20mm
LIGHT SOURCES	
Auxiliary IR	Led @850nm
White flash	Led @450-650nm
RETINOGRAPHY	
Spherical correction	from -15D to +15D
Image resolution	2448 x 2051 (5MPixel)
Visual field	50° x 45°
Minimum pupil size	2.5mm
Fixation points	Internal (1 central 8 peripheral)
Compatibility with standard	UNI EN ISO 10940:2009, DICOM (IHE integration profile EYECARE Workflow)

MINIMUM SYSTEM REQUIREMENT

PC: 4 GB RAM - Video Card 1 GB RAM (not shared) resolution 1024 x 768 pixels - USB 3.0 type A
Operating system: Windows XP, Windows 7 and Windows 10 (32/64 bit).

**The specifics and the images are not contractually binding and can be modified without notice. Windows® is a Microsoft Corporation trade mark.*

CO123 | Rev. 00 del 01/2018



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Via degli Stagnacci 12/E
50018 - Scandicci - FI - Italy
tel +39 055 72219 | fax +39 055 7215557
email. cso@csoitalia.it | web. www.csoitalia.it

CE 0051

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