

VIEWLIGHT
POWERED BY INNOVATION



Retinal Camera
COBRA HD



Cobra

Retinal Camera **HD**

1. Fixation Point
2. High Quality Sensor
3. Head Rest
4. Optical Lens
5. Focus Adjustment Handle
6. Chin Rest
7. Chinrest Height Adjusting Ring Nut
8. Chin Rest Hand Held
9. Joystick with Acquisition Button
10. Guide Guards
11. Personal Computer
12. Two Device Table Top (Optional)





Retinal Camera

COBRA HD



High Precision Measurements

The Cobra HD is a non-mydiatic fundus camera that compromises all the functions required for a rapid screening of the status of the retina. This ergonomic design provides a clear and detailed image of the ocular fundus with a field of vision of up to 50°.

High Quality Sensors

Cobra HD shares the use of the CCD high resolution sensor for the alignment of the patient and the capture of retinal images. Multiple wave-length images can be displayed on one screen such as: choroidal, vascular, nerve fiber, infrared and red-free images



Maneuver Cross Slide Joystick

The Cobra Series features a manual acquisition and electronically guided joystick, for high precision focus control and repeatability measurements for multiple fixation points.



Field of Vision

Up to **50°**



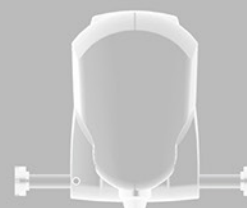
CCD High Resolution

5 Megapixel



White Flash

IR Illumination





Phoenix

(Software Included)

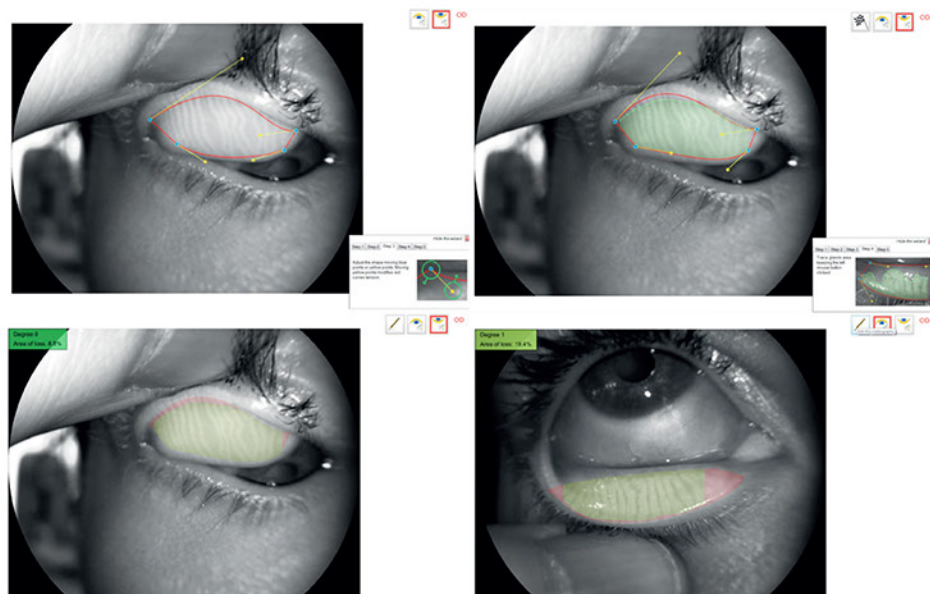
COBRA Series offers a unique and one of the kind technology, therefore you can utilize simultaneously two operative devices while connected with the Phoenix software. This new application provides the clinician important information about the patients eyes utilizing over 9 different diagnostics,

COBRA HD utilizes a USB 3.0 connection between the device and the PC to enable a fast and easy transfer of images. Also, software features drawing tool, image comparisons, internal patient management center, compatible with DICOM, and exported PDF digital reports and printing options.

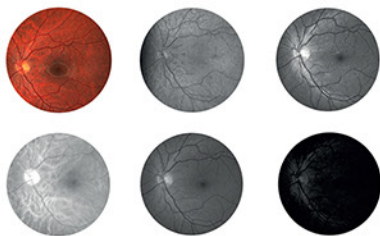


MGD Analysis Module (Meibography)

Cobra HD non-contact meibography has the ability to view a greater surface area of the everted eyelid to perform the evaluation and objective analysis of the glands structure and health. By using infra red light, COBRA HD acquire images of the meibomian glands.

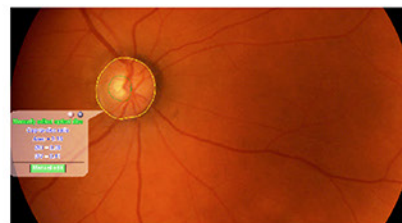


Multiple Wave-length Images



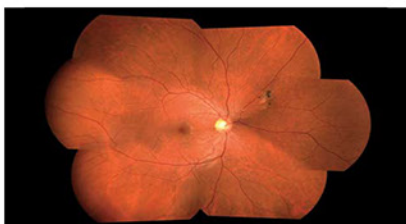
Multiple wave-length images can be displayed on one screen: the original image, infrared image red-free image; as well the choroidal, vascular and nerve fiber images.

Cup to Disk Measurement



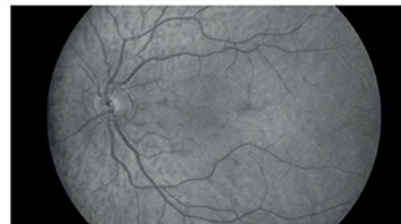
The measurement of the Cup to Disk ratio can be obtained automatically or manually editable, with its built-in measurement tools, available in the Phoenix software platform for the detection of glaucoma disease.

Mosaic Function



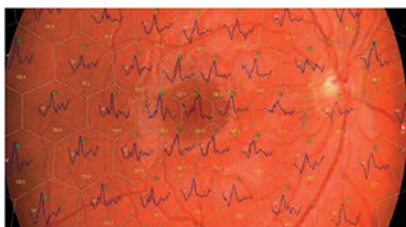
COBRA HD can capture multiple images up to 50° field of view) which can be combined together in order to create a panoramic image of the peripheral retina.

Infrared Image Acquisition



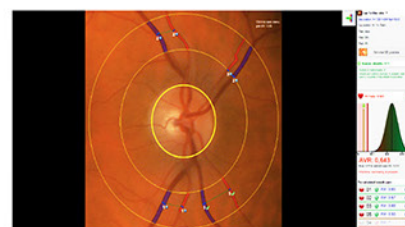
The image is acquired using a low flash level and infrared light, producing a very detailed image of the retina.

Integration Tool with ERG Test



All retinal fundus images can be combined with the multi focal ERG test, performed with the RETIMAX device. This new module provides a precise indication of the functionality of every analyzed retinal area (useful for follow-up of Macular Degeneration and degenerative hereditary retinal diseases).

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.



Product Specifications

Cobra
Retinal Camera HD

Measurements

Image Resolution	2448 x 2051 (5M Pixel)
Working Distance	20mm
Dimension	420mm (w) x 315mm (l) x 255mm (h)
Shelf Size	380mm (w) x 500mm (l)
Weight	6kg
Base Movement	105mm (w) x 110mm (l) x 30mm (h)
Field of View	50° x 45°

Light Source

Auxiliary IR	LED @850nm
White Flash	LED @450-650nm
Pupillography Illumination	LED @950nm

Retinography

Spherical Correction	From -15D to +15D
Image Resolution	2448 x 2051 (5MPixel)
Visual field	50° x 45°
Minimum Pupil Size	2.5mm
Internal	1 central 8 peripheral
Compatibility with Standard	UNI EN ISO 10940: 2009, DICOM (IHE integration profile EYECARE Workflow)

