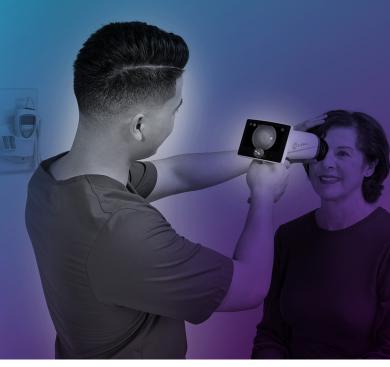
# SIGNAL

## Handheld Retinal Camera

The SIGNAL handheld retinal camera is a versatile and mobile imaging solution to bring to different exam rooms or home settings. Capturing images with the SIGNAL is simple and the compact design is ideal for mobile eye care or satellite offices to screen for retinal conditions, such as diabetic retinopathy.



#### **Easy Image Capture**

The SIGNAL enables non-mydriatic retinal examination with a  $50^{\circ}$  x  $40^{\circ}$  field of view, covering the macula and the disc.



True color images and videos (mydriatic) offer excellent screening and documentation of the retina



Nine fixation targets offer both central as well as peripheral imaging



Auto-focus and auto-exposure functions make image acquisition with the SIGNAL straightforward and fast



Quickly evaluate brightness, reflection, shadowing, and sharpness of the captured images with the image quality analysis tool

### **Flexibility**

The SIGNAL is ultra-lightweight and compact and has an operating time of up to 5 hours of continuous use.



Easily add the camera to a slit lamp with the optional slit lamp mount for increased alignment and positioning stability



Images can be transferred via WLAN or USB connectivity





Model	SIGNAL Camera
	Preview (focusing): Infrared LED
Illumination	Capture: visible white LED (10 brightness levels)
	• 9 internal red LEDs for fixation targeting
Maximum luminance	3.0 cd/cm2
Field of view	50x40°
Diopter compensation	from -20 D to +20 D
Minimum pupil size	Ø 3.1 [mm]
Image resolution	2368 x 1776 pix (total 4.2 Mpix, effective area 3.38 Mpix)
	White and Infrared LED when operated in continuous mode

#### Spectral output at working distance

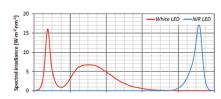


Image sensor	CMOS, 5.0 Megapixels
Image memory type	Internal 8 GB memory
Display	4", TFT-LCD, 800x480 pixels, 16.7 M colors
Image format	JPEG (file extension: jpg)
Video format	MPEG-4 (640 x 480 )
USB Connectivity	USB 1.1, compatible with USB 2.0 and 3.0
WLAN Connectivity	• 802.11 bgn, wpa2
	• Operating frequency range: 2412 - 2472MHz (Channels 1-13)
	<ul> <li>Modulation: OFDM (802.11 a/g/n), DSSS/CCK (802.11b)</li> </ul>
	Maximum output power: 17.25 dBm
	Maximum antenna gain: 1.9 dBi
Operating systems	<ul> <li>Microsoft Windows 8.1°, Windows 10° (WLAN and USB)</li> </ul>
	• MacOS (three latest versions) (USB) <sup>1</sup>
DICOM conformance	DICOM compatible <sup>2</sup>
Dimensions	127 (w) x 202 (h) x 240 (d) mm
Weight	785 g
	• 50001508, 3.65V, 2750 mAh

• Rechargeable Li-Ion battery

• Li-Ion cell with integrated safety circuit



**Batteries** 

<sup>1.</sup> No driver installation needed.

 $<sup>{\</sup>it 2. DICOM\ Conformance\ Statement\ available\ upon\ request.}$