



OPHTHALMIC IMAGING SYSTEM



Transform Your Practice with ICON - The Imaging System with Patented Direct Illumination™ for Superior Retinal Imaging

- **Smart Disinfection System**
Provides high-level disinfection, including hands-free soaking for effortless multiple patient screening.
- **ICONnect**
Integrated platform simplifying patient data input, connecting seamlessly with PACS/RIS, modality worklist, and image export.
- **GentleTouch Handpiece**
Lightweight, ergonomically designed handpiece that employs LED technology, reducing stress on both the user's hand and sensitive newborn eyes.
- **Unplugged Imaging**
Flexibility to move from baby to baby effortlessly, providing up to six hours of cordless operation.
- **DataLock**
Advanced security framework incorporating a hardened Windows 10, data encryption, user roles, password protocols, and comprehensive audit logging.
- **Direct Illumination**
Patented technology to provide high-resolution and high-contrast retinal imaging, minimizing backscatter especially on darkly pigmented fundi.

SPECIFICATIONS:

IMAGE CAPTURE

ILLUMINATION	Direct Illumination™, designed for high resolution and high contrast imaging while reducing scatter at the edge of the field of view
ZOOM	Real-time, on-screen zoom with ability to pan across the magnified field of view
LIGHT SOURCE: FUNDUS	Interchangeable white LED light module in hand piece
LIGHT SOURCE: IVFA	Interchangeable blue LED light module in hand piece for fluorescein angiography
FILTER SELECTION	Easily activate barrier filter selection in the hand piece, for fluorescein angiography imaging (no disassembly required)
LENS	Single lens provides 100-degree wide field of view for retina survey, allows uniform illumination without loss of light in the vitreous, and allows for imaging without age restriction
DISINFECT AT THE SYSTEM	Mitigate damaged lenses using the hand piece holster with disinfection cup and clean in multiple levels with an audit log on the system
CONTROLS	Keyboard, foot pedal, and touch screen, including illumination and gain controls to optimize image quality and patient comfort
SAVE ON CAPTURE	Images and videos save when captured allowing for later review to fit your workflow and patient needs
IMAGE ROTATION	Rotate the image in the software prior to capture for unencumbered imaging if you can't be at the head of the supine patient (like a CPAP baby in the NICU)
CAPTURE MODES	Video, Still Image (color/monochrome), Flashback (save previous 2 sec of video), HDR, FA
VIDEO CAPTURE	Up to 2 minutes of 15 fps video, with single frame export option
CAMERA GAIN	0 – 48 dB
SENSOR	Low-noise 3 megapixel CMOS sensor matched to optical resolution of patented optics system
IMAGE EXPORT OPTIONS	6MB Raw (TIFF) with or without patient data JPEG (compressed) with or without patient data DICOM with patient data

PACS/RIS INTEGRATION

IMAGE TRANSFER	Easily export images for transfer to a DICOM-compliant PACS using C-STORE
FAIL-OVER	Support a secondary PACS for auto fail-over if primary PACS is unavailable
CONFIGURABILITY	Configure AET, IP address, ports, transfer syntax and other key DICOM parameters
LOGGING	Log of all image transfers with send status, date, and time
MODALITY WORKLISTS	Download modality worklist from PACS/RIS and eliminate patient data entry on the ICON Camera

COMPUTER AND CART

WEIGHT	140 lbs. overall
FOOT PRINT	20" x 24" with 4 locking wheels
HEIGHT	Adjustable 52" to 66" motorized lift adjusts to sitting or standing clinician
STORAGE & WORK SURFACE	18" by 14" work surface with pull-out drawer for storage
BATTERY	The system's 6-hour battery life enables unrestricted mobility in the NICU and OR
DISPLAY	21.5" touch screen 1920 x 1080 resolution
COMPUTER	2.4 GHz, 16 GB of 1600 MHz RAM, 2 TB hard drive, accelerated graphics processor
OPERATING SYSTEMS	Hardened Windows 10 IoT
I/O PORTS	USB 3.0 and RJ-45 Ethernet
FIREWALL	Built-in software firewall enabled
ELECTRICAL	220V or 110V AC 50-60 Hz

WARRANTY

INCLUDED WARRANTY	2 years
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Learn more at theneolight.com
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