

Canon CF-1 Digital Retinal Camera

PRICE	N/A
COMPANY	Canon USA, Inc. (Lake Success, NY)
PHONE	1-800-970-7227
WEB	www.usa.canon.com
KEY FEATURES	
<ul style="list-style-type: none"> • Three imaging modes • Includes Retinal Imaging Control Software • Compact design and 50° viewing angle 	

The Canon CF-1 Digital Retinal Camera features a redesigned optical system that achieves high-resolution diagnostic images, enables a 50° angle of view, and provides detailed retinal images in three imaging modes: color, fluorescein angiography, and red-free, according to a company news release.

When attached to the Canon EOS 30D Digital SLR Camera—which provides up to 8.2 million pixels—the CF-1 is capable of delivering clear and detailed diagnostic images for immediate review.

The CF-1 provides impressive flexibility with smooth wide-range pan and tilt movements for easy use. The



ergonomic, streamlined design of the CF-1 achieves improved operation by motorizing procedures usually performed by hand (eg, changing filters, adjusting the chin rest).

All CF-1 functions are integrated into a single tabletop unit with a power supply built directly into the base. The new compact design allows for closer interaction with the patient and easier access to the patient's eyes.

The system includes Retinal Imaging Control Software, which facilitates comprehensive study management and image capture control in an intuitive graphical interface, according to the release. The Digital Imaging and Communication in Machine (DICOM) standard-compliant network interface enables easy integration with existing image management systems and allows connection to a variety of network configurations.

Volk Optical Web site

PRICE	N/A
COMPANY	Volk Optical (Mentor, OH)
PHONE	1-800-345-8655
WEB	www.volk.com
KEY FEATURES	
<ul style="list-style-type: none"> • Computer animated equipment virtual trials • Increased e-commerce security • Dealer locator 	

Volk Optical has launched its newly redesigned Web site to better meet the needs of its Internet ophthalmic customers, according to a company news release. The new site, accessible at www.volk.com, incorporates advanced software tools to provide better information with fast loading times, easier navigation, and e-commerce security.

Additionally, computer animation on the site facilitates virtual trials and comparisons of Volk lenses with technical specifications, application information, and usage details. It also allows users to experience the view through each lens,



showing static field-of-view in relation to the entire retina, plus a Doctor's View, which stimulates examination of the entire retina at the selected field of vision and magnification. Choosing the right lens is further simplified with direct side-by-side comparisons of lens range, static field-of-view, and Doctor's View, according to the company news release.

This new feature allows doctors to effectively research, compare, and purchase Volk's complete line of diagnostic, therapeutic and surgical ophthalmic lenses, equipment, and accessories. Each detailed product information page is linked to an online shopping cart for quick selection.

For additional support and purchasing options, the site's improved distributor locator helps visitors find the closest dealer. Volk plans to continually update the site with better lens selection tools, FAQs, blog information, and other devices to enable the user to select and obtain their lenses and equipment more easily.

Automated Retinal Imaging System

PRICE	N/A
COMPANY	Visual Pathways, Inc. (Prescott, AZ)
PHONE	1-928-778-5002
WEB	www.visualpathways.com
KEY FEATURES	
<ul style="list-style-type: none"> • Autopupil alignment, focus, and tracking • Autoset for illumination and exposure • Autostereo imaging featuring ConstantBaseStereo 	

The ARIS (automated retinal imaging system) essentially automates the entire procedure for acquiring high-quality retinal images. At the start of the imaging procedure, the operator sees an image of the patient's pupil on the monitor, and, using a mouse, moves the image until it is roughly centered.

From that point on, the ARIS illuminates, then automatically completes and maintains alignment and focus, adjusts the light exposure, and acquires a pair of stereo images. Typically, it requires fewer than 15 seconds to obtain infrared, red-free and color images . . . all in stereo.



Patient comfort with the ARIS is increased due to the fact that the ARIS uses infrared illumination for the pupil focus procedure and for monochrome imaging. Colored light is used for color imaging, but at much lower intensity than in existing fundus cameras. No pupil dilation is needed for acquiring images of a single field on the retina for a majority of the patient population.

The ARIS offers speed as well. A single-color, stereo-pair imaging procedure typically takes about 15 seconds to complete. A standardized diabetic retinopathy imaging procedure (eg, seven-field, stereo-image) takes about 5 minutes with the ARIS, compared with about 30 minutes for a competitive fundus camera.

Optyse

PRICE	\$120 (Introductory price)
COMPANY	Oasis (Glendora, CA)
PHONE	1-800-528-9786
WEB	www.OasisMedical.com
KEY FEATURES	
<ul style="list-style-type: none"> • Rapid and clear view of the retina • No lens adjustment • Portable 	

The Optyse is a lens-free ophthalmoscope small enough to be carried in a pocket. The ophthalmoscope is a lightweight, pen-sized device that captures a clear image, even with various refractive errors and pupil sizes. This instrument is ideal for on-the-go ophthalmologists, general practitioners, internists, pediatricians, and other primary care providers, according to the company.



It is useful for health care providers in determining the health of the retina and vitreous humor and determining the next step of treatment. ■