

THE FUNDUS CAMERA LANDSCAPE AND KEY QUESTIONS

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WHAT DO WE NEED FROM A CAMERA?



- Ability to accurately identify macular edema and **moderate/advanced** retinopathy
- Maybe some day the ability to image the optic nerve in a way to detect **glaucoma**
- Could also include **autorefraction**

OTHER DESIRABLE FEATURES



- **Portable**
- **Cheap**
- **Good connectivity**
- **DICOM compatible**
- **Smaller image size (bandwidth concerns)**



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3nethra **classic**

Ophthalmology
Pre-screening Device



Forus

wellness democratised
www.forushealth.com

- **Portable, folds into a small case**
- **Connects to laptop**
- **Under 10K cost**
- **No comparative studies**
- **LED?**

India

SMARTSCOPE M5



- **Portable**
- **Connects to laptop
USB**
- **Under 10K cost**
- **No comparative
studies**
- **LED**

Optomed, Finland

HORUS SCOPE (JEDMED, IOWA)



- **FDA Approved (but no studies)**
- **Portable**
- **Cost not available**
- **3 hour battery life**
- **Connects to laptop via USB**
- **LED**



Built-in IR technology allows image capturing without dilation.



Conveniently located controls make this system extremely user friendly. Most functions can be controlled with just your thumb.



The included cradle acts as both a charger and an image transfer docking station (via USB).

DIGISCOPE (SPECTRAL REFLECTANCE)



EyeTel, U.S.

- **Telemedicine screening programs in the US**
- **Kappa > 0.95 with retinal camera**
- **Cost not clear**
- **Can be moved, but not highly portable**

EASYSKAN (CONFOCAL SLO)



- **Powered by laptop USB**
- **Cost?**
- **DRIVE study, able to get images, 100 patients, ARVO only**
- **LED**

iOptics, Netherlands

PANOPTIC



- **Widely used by internists**
- **\$800**
- **Not designed for large scale screening**
- **No studies**

Welch Allen, U.S.

DRS AUTOFOCUS



- **Portable, self-contained**
- **Fully automated**
- **Pricing not known**
- **No studies**
- **Internet native**

Centervue, Italy



Optovue, U.S.

- **Portable?**
- **SDOCT, but not clear if also photo**
- **FDA clearance**
- **Pricing not known**
- **No studies**

THOUGHTS



- **Lots of cameras and I am sure I missed some in my review**
- **Little data on performance**
- **Opaque pricing also complicates decision making**



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THANK YOU.

*“Although the world is full of suffering, it is also full of overcoming it.”
-Helen Keller*