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Diabetes Detection Ophthalmic Digital Adaptor

If diabetes is detected early, sufferers can act to avoid its life-threatening complications. Pioneering UK start-up, Digital Healthcare, recognised that simple early detection via imaging of the eye's retina could save millions of lives. They had sophisticated retinal imaging software, but sales were blocked by a lack of hardware to collect the high quality images required from ophthalmologists Fundus cameras. Digital Healthcare called on CDP's expertise in opto-mechanics. Just 8 months later, a range of Ophthalmic Digital Adaptors was in production and software sales rocketed.

Skills deployed

- Optical modelling and optimisation
- Precision mechanism engineering
- Project Management from brief to pilot production

Technical highlights

- High quality diffraction-limited lens assemblies
- Precision lens-changing mechanisms
- Electrical interface between DSLR and Fundus camera

CDP's adaptor connects any digital SLR camera to a range of popular Fundus cameras. CDP achieved the "gold standard" of diffraction-limited optics, capturing the highest quality digital images, preserving resolution for processing. Digital Healthcare's system is now screening over half a million people annually worldwide.

"CDP was certainly successful in developing not only a good looking product but one which incorporated an innovative internal design that gave us a competitive edge."

Managing Director, Digital Healthcare

www.digital-healthcare.co.uk

