

# EQUIPMENT SPECIFICATIONS

## FUNDUS CAMERA FOR DIABETIC RETINOPATHY SCREENING | NON MYDRIATIC

Produced in collaboration between the IAPB Standard List, the IAPB Diabetic Retinopathy Working Group, and international diabetic retinopathy experts

OCTOBER 2019

## Minimum Standards

This document specifies the minimum standards for a non-mydriatic digital fundus (retinal) camera unit. It is based on the English National Screening Programme for diabetic retinopathy 2003-2016.

The unit can be a fixed or portable fundus camera.

Portable units include hand-held cameras. Hand-held cameras are an order of magnitude cheaper than desktop ones, yet produce images of an acceptable quality if used on a standing unit with the patient in a slumped. Further, these are responsive, portable, and easy-to-operate. These new cameras have revolutionised retinal screening programs, and are thus an appealing choice especially in low- and middle-income countries.<sup>1</sup>

### DEFINITION OF "THE UNIT"

The unit means:

1. the fundus camera and anything contained within it;
2. the digital camera body and anything contained within it if this is separate from the fundus camera;
3. any incorporated computer hardware, firmware, and software;
4. any cable or adapter required to attach the fundus camera to the digital camera body;
5. the data transfer lead used to connect the camera to an external computer; and
6. any other power supply, cables, or other such equipment as is necessary to produce a digital image of the retina and transfer it to an external computer.

