# oDocs Eye Care Ltd. Technical Document - ODocs nun IR

### **Product Description**

The oDocs nun IR is a medical device under the category fundus camera. The nun-IR uses an Android smartphone as a view finder to view and assess subject's retina.

Please read this technical document (this document) carefully before using the product.

#### Features of the product

- Hand-held Fundus camera with increased portability and high resolution.
- Video and still photography functions enable recording video for dynamic signs, such as Spontaneous venous pulsation.
- Infrared illumination (IR Mode)
- Non-mydriatic.

System Identification Data

- Field-of-view (FOV) of 45-55 degrees.
- Manual focus of -20D to +20D.
- Mobile friendly with Android smartphone
- Rubber eye-cup to enable better adjustment between the camera and the patient's eyes.
- Rechargeable battery.

Product Name	Fundus Camera	
Brand Name	nun IR	
Parent company	ODOCS EYE CARE LIMITED	
Manufacturer	WikiOptics, Inc.	
EU Representative	JaviTech e.K.	
Eu Representative Address	Sachesenhausener Str.16, 65824 Schwalbach a. Ts., Germany	
Medical device class	Class 1 (Annex IX Rule 12)	
CE labelling	Registered	
Allowed device combination	Android phone recommended by the oDocs Eye Care Ltd.	
Current document status	Document version 1.1.1 dated 2020-12-30	

We declare that the medical device described hereafter; Fundus camera / WFC-01 has been classified as Class I (Annex IX Rule 12) and conforms with the essential requirements and provisions of Council Directive MDD 93/42/EEC (Medical Device Directive).

## **Product Specifications**

#### **Dimension & Weight**

Name/Category	Length (mm)	Width (mm)	Height (mm)	Weight (g)
Cradle	224.6	79.7	87.9	224
Nun IR camera body	223.4	66.4	187	531
Nun IR camera with box	360	122	260	2340

#### **Optical specification**

Field of view (FOV) : >45°(Hor.), >40°(Ver.), Diopter: -20D to +20D (manual focus) Light source: Infrared LEDs for focus, Natural White LEDs for flash, Fixation 7 LEDs for fixation target Image format: JPEG Image sensor: 13Mp Image resolution: 4208x3120 USB connectivity: Mini USB2.0

# User's smartphone environment for running nun-IR app

OS: Android 5.0 over CPU: Quad-core 1.6GHz over RAM: 2.0GB over Display: 5.1inch display, 1080x1920 over

#### **Rechargeable battery**

3.6V 3500mAh protection circuit 18650

#### Waterproof grade

IPXØ: This product is NOT protected from any penetration of water.

#### **Operating Environment**

- Operating temperature: 0°C~45°C
- Storage temperature (nonoperating): -20°C~ 55°C
- Operating humidity: 30%~ 90%
- Storage humidity: 10%~ 95%
- Operating & Storage Atmospheric pressure: 800hPa~ 1060hPa

#### DC power supply (for charging)

IEC60601-1 Medical power supply, compliant with 2MOPP

- Model name : GTM46101-1005-USB
- Input: 100-240V, 50-60Hz, 0.3A
- Output: DC 5.0 V, 2.0A

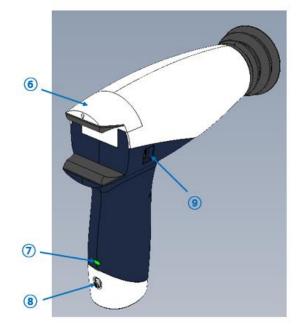
# Scope of Delivery

## Delivered Package Content

oDocs Eye Care package delivery is entirely annotated in the oDocs nun IR packing list. Delivered components including:

	Body of the oDocs nun IR fundus camera
	Cradle for battery charging
	Eye Cup
	DC power supply & plug
	eye care
	Mini USB power cable
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	OTG gender adapter
/	User Manual (Download at home page)





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No.	Item	Description
1	Eyecup	External light interception, the pupil tracking function
2	Diopter	-20D to +20D focus adjustment
3	Shot button	Retina image capture
4	Battery cover	Cover to replace the battery
5	DC power terminal	DC power terminal for lithium-ion battery charging
6	Smartphone holder	Universal holder
7	Charging indicator	Another LED lighting when charging, Green LED lighting when charging is complete
8	Main power on/off switch	Main body power on/off switch
9	USB mini B type port	Data interface between smartphone and medical device

## Composition of the fundus camera body

#### Standards

The product is approved by the Therapeutic Goods Administration (TGA) and MedSafe. The nun-IR WFC-01 complies with the following standards:

IEC60601-1-6	2010
IEC60601-1	2012 (EN60601-1:2013)
IEC60601-1-2	2014 (EN60601-1-2:2015)
ISO15004-2	2007
ISO10940	2009
ISO10993-1	2009
IEC62133-2	2017
EN62304	

#### **ELECTROMAGNETIC COMPATIBILITY**

- This device has been tested and found to comply with the limits for medical devices to the IEC60601-1-2(Edition4.0):2014.
- Electromagnetic Interference Although this equipment conforms with the intent of the directive 2014/108/EC in relation to Electromagnetic Compatibility (EMC), all electrical equipment may produce interference. If interference is suspected, move equipment away from sensitive devices or contact the manufacturer.

#### WARRANTY : 12 months

## **Technical Assistant/ Application Support**

oDocs Eye Care Ltd. offers a comprehensive warranty and service support program. Highly qualified representatives from our service and customer support departments are available to support you to solve operational questions.

Company Name	oDocs Eye Care Limited
NZBN	9429041414613
Entity Status	Registered
Business Type	NZ Limited Company
Telephone Number	+64 27 268 6464
Email Address	product@odocs-tech.com

