Implen OD600® Technical Specifications

Optical Specifications & Displayed Information		
Wavelength	600 nm	
Photometric Range	OD600: 0 – 4 A	McFarland: 0 – 16 MFU
Accuracy	OD600: @ 1 A: < ±0.01 A	McFarland: @ 0 – 8 MFU: ≤ ±0.1 MFU
Reproducibility	OD600: @ 1 A: < ±0.002 A	McFarland: @ 0 – 8 MFU: ≤ ±0.05 MFU
Cuvettes/Tubes	DiluCells; 10 mm macro and semi-micro cuvettes; 10, 12, 16, 18 mm glass/falcon tubes – without the need for adapters. Wipeable sample compartment - fixed with drain hole.	
Optical Height	8.5 mm	
Displayed Information	Sample list function: View sample data onboard including Abs value, MFU value, sample name, time and date of measurement	

General Specifications	
Instrument Size	140 (L) x 110 (W) x 70 (H) mm
Weight	0.6 kg
Display Size	3.5" glove compatible touchscreen, 480 x 320 pixels
Memory	4 GB internal memory, access to all previously measured sample data in sample list feature
Time and Date Data	Manual or automatic time setting
Connection Capability/Output	Data export via USB A port Charging via USB C port LIMS integration via WiFi, Ethernet/LAN (Rest API PUSH)
Battery Life	Rechargeable, continuous use for ~8 hours
Certification	CE, IEC61010-1:2012 and EN 61326-1:2013
Data Format	.xls and .csv format exportable. For LIMS: JSON

DiluCell™ Optical & General Specifications			
Dimensions	12 mm x 12 mm x 45 mm	**Automatic Dilution**	Factor 10 (1:10)
Pathlength	1 mm (identifiable by special marking)	**Volume**	300 µl required sample volume
UV/VIS Transparent	Starting from 340 nm		

Ordering Information

Article No.	Description
Implen OD600-EU	**Implen OD600-EU** Includes: OD600 Instrument, USB-C cable, **EU power supply**, and Quick Start Guide
Implen OD600-US	**Implen OD600-US** Includes: OD600 Instrument, USB-C cable, **US power supply**, and Quick Start Guide
Implen OD600-UK	**Implen OD600-UK** Includes: OD600 Instrument, USB-C cable, **UK power supply**, and Quick Start Guide
Implen OD600-CN	**Implen OD600-CN** Includes: OD600 Instrument, USB-C cable, **CN power supply**, and Quick Start Guide
Implen OD600-PI	**Implen OD600-PI** Includes: OD600 Instrument, USB-C cable, **Pacific Island power supply (Type I)**, and Quick Start Guide
DC 10	**DiluCell™ 10** Disposable cuvette with 1/10 virtual dilution, Pack of 96
Implen OD600-Q	**IQ/OQ Documentation package for the Implen OD600®**

Features and specifications are subject to change without notice.

Implen GmbH
ISO 9001:2015

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Implen **OD600®**

Fast, easy, and accurate determination of cell density at 600 nm

Made in Germany




DiluCell™


Cuvette


Reagent Tube

Implen **OD600®**

- Modern, stand-alone, battery powered device with direct operation via the touchscreen display
- Designed with simplicity in mind, the OD600 features an intuitive interface for easy operation
- Fast and easy determination of cell density at 600 nm
- Measure OD600 values up to 4 A

UTMOST COMPATIBILITY WITHOUT ADAPTERS
- DiluCell™
- All commercial cuvettes
- Reagent tubes – 10, 12, 16 and 18 mm; no height restriction
- Wipeable sample compartment

STAND-ALONE OPERATION
- Integrated battery with a runtime of > 8 h (continuous use)
- Unlimited mobility, suitable for use in field work, safety cabinets, and also in incubation chambers even under anaerobic conditions*

ADVANCED CONNECTIVITY OPTIONS
- Data export to USB – .xls and .csv formats
- LIMS integration via WiFi, LAN/Ethernet (REST API PUSH)

DATA STORAGE & UNIVERSAL CAPABILITIES
- 4 GB storage capacity
- Software is available in 6 languages – English, Chinese, Japanese, German, Spanish, and French

MAINTENANCE FREE SETUP
- No moving parts, no recalibration necessary

*Certain restrictions or limitations apply. Please contact Support.

Easy-to-clean, smooth glass surface
Ideal for usage in laminar flow or biosafety hoods



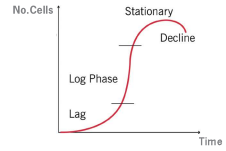
Touchscreen display
3.5“ glove-compatible touchscreen

USB-A port
Fast data export in .xls and .csv file formats

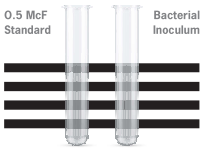
Ambient LED light strip
Pulsates while charging

The device is preprogrammed with intuitive OD600 and McFarland applications

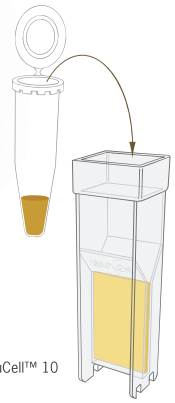
OD600 Application



McFarland Application



GMP/GLP ready with DiluCell™
Small volume requirement 300 µl
Automatic sample dilution of factor 10



DiluCell™ 10