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

Europe, Asia, South Pacific, Middle East and Africa

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Implen **OD600®**

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

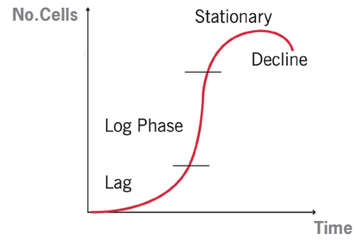
Made in Germany

Implen **OD600®**

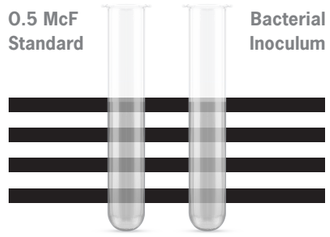
- Modern, stand-alone, battery powered device with direct operation via the touchscreen display
- Designed with simplicity in mind, the OD600 features an intuitive interface for easy operation
- Fast and easy determination of cell density at 600 nm
- Measure OD600 values up to 4 A

The device is preprogrammed with intuitive OD600 and McFarland applications

OD600 Application



McFarland Application



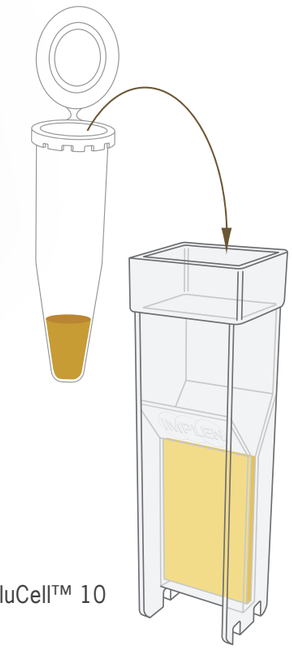
Easy-to-clean, smooth glass surface
Ideal for usage in laminar flow or biosafety hoods

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

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



DiluCell™ 10

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.