

# DEN-600, Photometer

## DESCRIPTION

**DEN-600** is a compact, portable, rechargeable battery powered photometer. DEN-600 comprises of 600 nm wavelength optical system, which enables to apply - 1) OD600 method that estimated total number of cells, 2) McFarland (McF) turbidity measurement method, 3) Bradford protein assay method for protein concentration measurement, 4) other methods that can be adjusted or optimized using 600 nm wavelength.

The device serves as an inexpensive alternative to a spectrophotometer, which is commonly used for these applications. Because DEN-600 is battery powered and compact, it can be comfortably located in a biosafety cabinet, anaerobic chamber or quickly moved to another lab room. Additionally, the vessel holding mechanism allows accommodating standard 10 mm path cuvettes, round bottom, conical vials or falcon tubes, therefore enabling to measure the absorbance and turbidity in Abs, OD or McF units.

USB connectivity and DEN software allow for data transfer, data processing and calculation, software calibration for Bradford protein assay method or a custom calibration for a specifically applicable vessel and custom turbidity standards.

Common applications include:

- Cell concentration measurement
- Cell growth data estimation
- Log phase estimation for microbial cells induction
- Competent cell preparation
- Bradford protein assay method
- Antibiotic susceptibility testing
- Inhibitory tests

## SPECIFICATIONS

Measurement range	0.3–15.0 McF
Measurement precision	±0.3 OD
Display resolution	0.01 McF
Light source	LED
Photodetector	8 silicon photodiodes
Measurement wavelength (λ)	λ = 565 ±15 nm
Full rotor`s measurement time	30 sec/channel
Plate type	96-well microplates (including strip-well microplates)
Measurement range (max)	0 – 4.3 OD (with standard preinstalled filters 0-3.5 OD)
Resolution	0.0001 OD
Display	LED



## CAT. NUMBER

BS-050108-A05	100VAC 50/60Hz US plug, 120VAC 60Hz US plug
BS-070102-AK	0.22 μm air vent filter for the storage tank, 0.22 μm air vent filter for the storage tank

## ACCESSORIES



**UP-12**  
BS-010108-AK  
platform

- UP-12, piattaforma
- UP-12, piattaforma



**P-12/100**  
BS-010108-EK  
platform

Platform with clamps for  
flasks.



**PP-20**  
BS-010126-BK  
platform

Flat platform with non-  
slip rubber mat can  
accommodate various  
low profile containers.