

CORONA MTP-601F

Automatic Fluorescence Microplate Reader



The MTP-601F is a reliable and high sensitive PMT based automatic fluorometer. It's ideal for a wide range of fluorescence-based ELISA and measurements including cytokines, growth factors, cytosolic Ca²⁺, proteases and DNase.

Features & Characteristics

- > Self-Diagnosis Function
- > Auto-Alignment Function
- > High Sensitivity
- > User- Friendly On- Board Control Panel
- > Shaking
 - 2 shaking modes : orbital or linear
 - 3 different shaking speeds
 - 3 different durations : 5, 10 or 20 seconds

CORONA MTP-601F SPECIFICATIONS	
Plate formats	96 well plate (flat bottom, black) (Greiner#781076 recommended)
Measurement direction	Vertical and Horizontal
Measurement	Digital controlled LED lamps, wavelength specific
Detection mode	Fluorescence
Measurement principle	End point / Kinetic measurement
Sensitivity	2×10 ⁻¹¹ mol / Fluorescein
Interference Filter	Excitation:490nm, Emission:530nm
Wavelength range	Excitation:340nm-710nm, Emission:400-750nm
Shaking mode	Rotational / linear,3 step speeds, Time: 5s,10s and 20s
Detection interval and number of measurement	Maximum 999 seconds;99 times
Detection time	Min 60 seconds/96-well plate
Light source	Halogen lamp
Detector	Photomultiplier Tube -R928

Japan Medical cert no.08BZ0089
For proper operation, follow the instruction manual when using the instrument.

STANDARD ACCESSORY	
Main unit-MTP 601F	1
Fuse(3A)	1
Screwdriver(M3)	1
Data processing software(PC compatible)	1
KF2000PCC(window 98/2000/Me/xP compatible) CD-ROM	1
Vinyl cover	1
Power cord	1
Instruction manual	1

The standard interference filter (Ex 490 nm, Em 530 nm) in the package can be replaced by any other filter if it is not required by the user.

Dynamica



The HALO Range
MICROPLATE EQUIPMENT

Dynamica

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RED VOLUTION

Halo MPR-96

Microplate Reader



The Halo MPR-96 Microplate Reader extends the Halo range to facilitate higher throughput analyses of experiments consisting of an array of micro-volume reactions typically in a 96 well plate format.

Features & Characteristics

- > Superior Performance
- > Exceptional Wavelength Range
- > Versatile by Nature
- > Diverse Range of Measurement
- > Validation Functions
- > User friendly operation and information rich LCD display
- > Stand Alone or PC Operation
- > On-Board Storage Data
- > Temperature Control (optional)

HALO MPR-96 SPECIFICATIONS	
Wavelength Range	400nm -750nm (340-750nm for MPR-96 UV)
Photometric Range	Absorbance: 0 to +4.0 OD
Resolution	0.001 OD
Stability	±0.001 OD (15 minutes after start up)
Accuracy	Better than ±1.0% ±0.01 OD (405nm, 0.000 – 2.500 OD) Better than ±2.0% ±0.01 OD (405nm, 2.500 – 3.000 OD)
Repeatability	Better than ±0.5% ±0.005 OD (405nm, 0.000 – 2.500 OD) Better than ±1.5% ±0.005 OD (405nm, 2.500 – 3.000 OD)
Linearity	Better than ±1.0% (405nm, 0.000 – 2.500 OD) Better than ±2.0% (405nm, 2.500 – 3.000 OD)
Filter Capacity	5 position [4 standard (405nm, 450nm, 492nm, 620nm) + 1 optional (400nm – 750nm)]
Reading Speed	Single wavelength, fast mode, 96 well: ≤10 seconds Dual wavelength, fast mode, 96 well: ≤15 seconds
Plate Types	96 well with flat, U or V shape bottom
Optical System	8 measurement channels, 1 reference channel
Detector	Silicon Photodiodes
Light Source	Halogen (Wl) Lamp
Display	Back-lit LCD 90(W) x 68(H) mm: Resolution 320x240 pixels.
Shaking	Linear, 4 speed selectable
Temperature Control / Accuracy (optional)	Ambient +4°C to +50°C / ±0.5°C
Printer Interface Connection / Language	USB interface / Support PCL - 5 or above
Dimensions	290(W) x 425(D) x 200(H) mm
Net / Gross Weight	15Kg / 20Kg
Power Requirements / Consumption	110 - 220 V auto switching, 50/60Hz / 50W (standby), 100W (operation)

Halo MPR-96 ORDERING INFORMATION:

PRODUCT		CATALOG NUMBER#
Halo MPR-96 Visible Microplate Reader 400nm-750nm / 110 - 220 V, 50/60Hz		MPR-96-400
PC Software		UVDS-08-01
Calibration Plate		MPR-96-CP
Temperature Control Module		MPR-96-TCM
Interference Filters (please specify wavelength between 340-750nm)		MPR-IF (λnm)
Micro-plates	96 well U-bottom	MPV-96U
(40 plates per pack)	96 well V-bottom	MPV-96V

* This model will be available soon.

Halo LED 96

Microplate Reader



HALO LED 96 is a computer controlled microplate reader for 96 well plates. Easy and safe operation removes the hassle from your daily microplate reading jobs. It is based on the most modern LED technology, no need to worry about lamp replacements anymore.

Features & Characteristics

- > LED Technology
- > Low Power Consumption
- > Unrivaled Optical Performance
- > Intelligent LED Plugins
- > Computer Controlled
- > MikroWin2010 Compliant

HALO LED 96 SPECIFICATIONS	
Plate Types	96 well
Optical System	8 channel transmission photometer
Light Source	Digital controlled LED lamps, wavelength specific
Photodetector	8 silicon photodiodes
Wavelength Range	340 - 750nm (special wavelengths up to 900nm)
Resolution	0.1 mOD (0.0001 OD)
Indication Range	0.000 - 4.000 OD (Abs)
Accuracy	better than ± 1% and ± 0.005 OD up to 2.5 OD (any wavelength)
Linearity	≤ ±0.5% and ± 0.005 OD from 0.1 to 1.5 OD (any wavelength) ≤ ±0.75% from 1.5 to 2.5 OD (400nm – 750nm) ≤ ±0.75% and ± 0.005 OD from 0.1 to 2 OD (340 - 400 nm)
Reproducibility	better than ≤ ±0.3% at 10D (any wavelength) better than ≤ ±0.5% at 20D (400-750nm)
Measurement Mode	Single and dual wavelength Linear scan (30 points/well) for agglutination etc.
Reading Speed	5 seconds (kinetic interval, single wavelength) 10 seconds (96 well, dual wavelength)
Wavelengths	4 wavelengths onboard (405, 450, 492, 620nm) up to 6 possible (340 - 750)
Shaking	4 speeds
PC-Interface	USB 2.0 (USB 1.1 compatible)
PC Software	Capture96 included
Dimensions	23cm x 12cm x 36cm (W x H x L)
Weight	6.7 kg net
Housing	Anodized Aluminium
Power Supply	external power adapter 100-240V, 50 or 60 Hz (autosensing), 24VDC, 2.5A (approved to EN 60601-1-2, EN 61000-6-3, EN 61000-6-1, EN 60601-1, EN 60950)
Scope of Supply	Power adapter, USB Cable, 4 Standard Filters, User manual (CD), Capture96 Control Software, MikroWin2010 Connect (demo version)

Halo LED 96 Ordering Information

PRODUCT		CATALOG NUMBER#
HALO LED 96 Microplate Reader		WR-302-02
LED plugin (xxx = wavalength in nm)		WR-302-xxx
MikroWin2010 Lite		MikroLite
MikroWin2010 Professional		Mikro Pro
MikroWin2010 Enterprise		Mikro Ent
Capture96 Pro software		CPR096

For more information on MikroWin2010 and its features, please visit www.mikrotek.de