# Multidetection Microplate Reader MR-942









## The Even-More-Value-for-Money Multimode Reader

With the multi-technology microplate reader platform has developed into its second generation setting new standards in modularity, performance and user-friendliness.

- Luminescence
- BRET and BRET<sup>2</sup>
- Fluorescence
- FRET
- Absorbance

The has been developed to support a fully modular approach. Any combination of reading technologies and options can be composed maintaining all possibilities of later upgrades.

### **Built-in Reagent Injectors**

Up to 3 reagent injectors can be set up to dispense multiple activators or detection reagents at any time and with user-adjustable volumes during the measurement.Berthold Technologies' injectors are based on the proprietary JET Injection technology. Superior accuracy and precision is combined with excellent mixing performance. Variable injections speeds and "friendly" material enable even injection of live cells (e.g. in Aequorin based GPCR screening).

One of the injector tips is located in reading position enabling the measurement of very fast labels, e.g. Acridinium esters, and to inject activators into a running kinetic. The ergonomic design of the housing provides front access of the injectors keeping the reagent reservoirs within reach and within eyesight. A through allows keeping the reagent bottles on ice or elevated temperatures – just as required.

#### Wash Plate

Excess fluids from priming and washing procedures are safely discarded via a specially designed wash plate.

#### **Temperature Control**

A temperature controlled microplate compartment ensures stable conditions whenever temperature sensitive enzymes or cells are in use.

#### **Front Access of Reagents**

The reagent reservoirs can be placed on the front for easy access and monitoring. A smoked see through lid protects the reagents from light. A base trough allows for the use of ice to keep the reagents cool.

#### Modularity

In the any of reading technologies can be combined with each other and any of the options added.



# **Technical Specification**

low-noise photomultiplier tube operated in single photon counting mode, spectral range 340 to 650 nmphoto diode, spectral range 200 – 1000 nm
halogen lamp
6 – 384 well plates
Terasaki plates
Petri dishes
filter membranes
up to 42 °C
including Peltier cooling of photomultiplier
3 modes, 3 velocities
up to 10,000 points per well
up to 3 JET injectors
variable volume 10 – 100 μL
variable speed
minimum resolution 0.05 sec
maximum duration up to 7 days

## Performance

Luminescence-	<6 amol ATP per well <3 zmol Firefly luciferase per well (equals less than 800 molecules)
Crosstalk-	5 x 10-6
Fluorescence-	<0.3 fmol FITC per well
Absorbance-	accuracy <2 % deviation (@ 2 OD, 405 nm) precision <0.6 % CV (@ 2 OD, 405 nm)
Dynamic range-	<ul><li>&gt;6 decades (PMT)</li><li>4 decades (photo diode)</li></ul>
Injectors-	accuracy better 98 % over entire volume range precision better 98 % over entire volume range

## Miscellaneous

Dimensions-	390 x 470 x 345 mm (w x d x h) incl. injectors
OS-	Win XP, Win Vista, Win 7
<b>Regulations-</b>	CE



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HPLC Servicing :We have team of service engineers who can attend to any make of HPLC promptly @the most affordable cost.

Trainings :We also take up preventive Maintenace to reduce downtime of HPLC's

- AMC's/CMC :We offer user training both in-House and at customer sites on HPLC principles, operations, troubleshooting.
- Validations :We have protocols for carrying out periodic Validations as per GLP/GMP/U SFDA norms
- Instruments :We offer instruments / Renting Services Modules like pumps, detector etc. on Rent.



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### **Image: Reach us @**





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