

BOECO BMR-100 MICROPLATE READER

Our BMR-100 Microplate Reader is a reliable and robust instrument for a wide variety of research and clinical applications. It reads various kinds of 96-wells plates and is equipped with shaking function. It can be used as a stand alone instrument or under PC control with a regular or APP software

- ▶ Easy to use with a 7 inch touch screen together with 3 external keys
- ▶ A broad wavelength range of 340-750nm
- ▶ Able to use as a stand alone or with PC control software to export the results
- ▶ Absorbance range: 0.0~4.000Abs
- ▶ 8 position optical filter wheel equipped with 4 standard optical filters
- ▶ Fast and accurate measurement of 96-well plates within 6 second

Safety

The drawer is controlled by a motor, if there is anything blocked when it is closing, the motor would draw back to protect the user. The light source and optical filters can be exchanged without opening the cover.

Software

BMR-100 keeps with high visual and logical user interface of software. It offers a comprehensive inbuilt calculations, such as blank subtraction, quantitative curve fit, qualitative classification and kinetic calculations, as well as the versatile reporting tool and further provides data reduction.

Specification

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|----------------------------|--|
| Display: | 7 inch touch screen (800x480 dots) |
| Light source: | Quartz-halogen lamp 6V/10W |
| Wavelength: | 340-750 nm |
| Optical filter: | Standard filters 405, 450, 492, 630 nm |
| Half-bandwidth of filters: | 3~9 nm |
| Read-out range: | 0~4.000 Abs |
| Linearity (405 nm): | 0~2.000 Abs ≤ ±1%, 2~4.000 Abs ≤ ±2% |
| Resolution: | 0.001 Abs 1 |
| Accuracy (405 nm): | ±1%(0-3Abs), ±2%(3-4Abs) |
| Precision (405 nm) : | CV≤0.2%(0-3Abs), CV≤1.0%(3-4 Abs) |
| Test speed | <6s for 96 wells plate |
| Incubator: | No |
| Shaking: | 3 modes of shaking: slow, medium and fast |
| User interface: | Integrated software or PC control software |
| Operation: | Touch screen, 3 pcs external keys |
| Storage: | 200 programs and 100,000 test records |
| Ports: | 3 USB ports, for PC, printer and USB-disk |
| Dimensions (W x D x H) | 440 x 295 x 225 mm |
| Weight: | 10 kg |

| Code | Description |
|-------------|--|
| BOE 8160500 | BMR-100 Microplate Reader with standard filters 405, 450, 492, 630 nm, 100-240 V, 50/60 HZ |

Optional Filters

| | |
|-------------|-----------------------|
| BOE 8160511 | Optical filter 340 nm |
| BOE 8160512 | Optical filter 380 nm |
| BOE 8160513 | Optical filter 415 nm |
| BOE 8160516 | Optical filter 540 nm |
| BOE 8160518 | Optical filter 570 nm |
| BOE 8160519 | Optical filter 578 nm |
| BOE 8160521 | Optical Filter 595 nm |
| BOE 8161523 | Optical filter 650 nm |
| BOE 8160518 | Optical filter 690 nm |



BOECO IW-8 INTELISPEED MICROPLATE WASHER

The Intelspeed Washer IW-8 is designed for washing of standard flat-bottom 96 well plates and microstrips. The unit is fully programmable ensuring multi-step solution ripening, aspiration (aspiration, combination of aspiration/liquid dispensing and soaking, as well as soaking cycle during a particular period of time).

The unit has 100 user-defined programs. Standard version is supplied with 8-channel washing head for dispensing/aspiration, 3 bottles for washing and rinsing solutions, a waste bottle and bottle with filter. Optional 4-channel washing solution weight logger, 4 CHW Logger is available.

The unit is designed for washing standard 96-well plates during analyses.

The unit provides:

- ▶ Washing mode
- ▶ Rinsing mode
- ▶ Mixing mode
- ▶ Double aspiration
- ▶ Possibility of additional solution mixing during time gap between two work cycles
- ▶ Possibility to use microtest plates by different manufacturers, ensured by automated plate set up (adjusting to different depths of plate wells)
- ▶ Plate and strip washing mode
- ▶ User-defined programs with adjustable parameters
- ▶ Saving work programs

The unit is designed for use in closed laboratory rooms at temperatures from +10 to +35° and relative humidity up to 80% at +25° decreasing linearly to 50% relative humidity at 35°C

4-channel washing solution weight logger, 4 CHW Logger provides automatic control of rinsing solution and waste volumes. The washer shows remaining volume for each bottle as percentage and gives a warning message in case of low solution volume or full waste bottle when 4 CHW Logger is connected.

Specification

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|---|--------------------------|
| Detection mode: | Absorbance |
| Minimum dispense volume: | 25 µl |
| Maximum dispense volume: | 1600 µl |
| Dispense increment: | 25 µl |
| Dispensing accuracy: | ±2.5% |
| Allowed residual liquid volume in plate well: | not more than 2 µl |
| Number of wells washed simultaneously: | 8 |
| Number of washing cycles for each channel: | 1–15 |
| Aspiration time: | 0.2–3 s |
| Aspiration/dispensing speed: | 3 levels |
| Max. number of channels in a program: | 2 |
| Soaking time: | 0–300 s (increment 10 s) |
| Shaking time: | 0–150 s (increment 5 s) |
| Number of washed rows: | 1 – 12 |
| Time of plate single wash (350 µl), no more: | 45 s |
| Number of programs: | 100 |
| Plate platform and washing head movement: | automated |
| Indication of operation modes: | 8-line LCD |
| Dimensions: | 375 345 180 mm |
| Weight with accessories: | 11 kg |
| External power supply: | DC 12 V, 5 A |
| Consumed power, not more: | 60 W |

4 CHW Logger Specifications

| | |
|-----------------------------|-------------------|
| Max. loading per scale cup: | 2 kg |
| Overall dimensions: | 267 × 252 × 97 mm |
| Weight: | 3 kg |



| Code | Description |
|-------------|---|
| BOE 8078000 | IW-8 Intelspeed Microplate Washer, 100-240 V, 50/60 HZ incl. bottles & external power supply unit |
| BOE 8078010 | 4 CHW logger |