# Multiskan Ease Absorbance Microplate Reader

Thermo Scientific™ Multiskan™ Ease Absorbance Microplate Reader—performance and general specifications

| Photometry | |
|---|---|
| Light source | White LED |
| Wavelength range | 400–760 nm |
| Plate format | 96- and 384-well plates, with or without lid, maximum total height 18 mm |
| Wavelength selection | Filter wheel with three factory filters and five optional filter positions |
| Factory filters* | 405 nm, 450 nm, and 620 nm |
| Filter bandwidth (full width at half maximum) | 3–8 nm |
| Wavelength accuracy | ±2 nm |
| Linearity (absorbance) at 450 nm | 0–3 Abs, 2.0% |
| Accuracy (absorbance) at 450 nm | ±(1.0% + 0.003 Abs) (0–3 Abs) |
| Precision (absorbance) at 450 nm | SD <0.005 Abs or CV <0.5%, whichever is greater |
| Turbidimetric sensitivity | <5 formazine turbidimetric units (FTU) |
| Measurement speed** | 96-well microplates:<br>• Fast mode: ≤10 seconds<br>• Precision mode: ≤20 seconds |
| **Incubator** | |
| Temperature range | From ambient +4°C to 45°C (at room temperature 25°C) |
| Liquid warm-up time | <40 minutes from 25°C to 37°C, 96-well microplate, 200 µL water/well |
| Mean temperature uniformity of wells at 37°C | ±0.5°C |
| Plate temperature uniformity at 37°C | <1.0°C |
| **Shaker** | |
| Shaking modes | Linear |
| Shaking speeds | Low (5 Hz, amplitude 15 mm), medium (11 Hz, amplitude 3 mm), high (18 Hz, amplitude 1 mm) |
| Shaking types | Continuous or pulsed |
| **General** | |
| Overall dimensions (W x D x H) | 295 mm x 400 mm x 215 mm (11.6 in x 15.8 in x 8.5 in) |
| Weight | 10 kg (22 lb) |
| Operation conditions | 10°C to 40°C; maximum relative humidity 80% for temperatures up to 31°C, decreasing linearly to 50% relative humidity at 40°C. Indoor use only. |
| Transportation conditions | –40°C to 70°C, packed in transport packaging |
| Storage conditions | –25°C to 50°C, packed in transport packaging |
| Power input | 100–240 VAC, 50/60 Hz, nominal |
| Power consumption | Max. 85 W, typical operation (without heating) 25 W |
| Internal Storage | Up to 700,000 measurements (full 96-well plate) and up to 1,500 protocol files |
| User interface | Stand-alone use: 8-inch touchscreen |
| PC control | Thermo Scientific™ SkanIt™ software |
| Connection | 1 USB type A, USB 2.0; 1 USB type B, USB 2.0; 1 USB type C, USB 2.0;<br>Ethernet port |

* Hard-coated filters with unlimited lifetime.
** Minimum kinetic interval time from A1 back to A1.

## Ordering information

| Product | Cat. No. |
|---|---|
| Multiskan Ease Absorbance Microplate Reader | ME001000C |

Learn more at **thermofisher.com/multiskanease**

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