

Environment 0 to 50°C (32 to 122°F); 0 to 100% RH, non-serviceabl Dimensions 142.5 x 102.5 x 50.5 mm (5.6 x 4.0 x 2.0") Weight 380 g (13.4 oz.) Ordering Information HI97752 is supplied with sample cuvettes (2), sample caps (2), plastic stoppers (1.5V AA batteries (3), instrument quality certificate, and instruction manual. CAL Check standards and testing reagents sold separately HI93752-01 calcium and magnesium reagents for 100 Tests (50 each) HI93752-03 calcium and magnesium reagents for 300 Tests (150 each) HI93752-01 magnesium reagents for 50 tests HI93752-01 magnesium reagents for 50 tests	Specifications		HI97752 Calcium and Magnesium
CalciumAccuracy@25°C (77°F)±10 mg/L ±5% of readingAccuracy@25°C (77°F)±10 mg/L ±5% of readingMagnesiumRange0 to 150 mg/L (ppm) (as Mg²*)MagnesiumResolution1 mg/LAccuracy@25°C (77°F)±5 mg/L ±3% of readingMethodadaptation of the calmagite methodAccuracy@25°C (77°F)±5 mg/L ±3% of readingMethodadaptation of the calmagite methodLight Sourcelight emitting diodeBandpass filter466 nmBandpass filter8 nmBandpass filter8 nmBandpass filter±1.0 nmUight Detectorsilicon photocellCuvette typeround 24.6 mm diameter (22 mm inside)Cuvette typeround 24.6 mm diameter (22 mm inside)Auto logging50 readingsDisplay128 x 64 pixel 8/W LCD with backlightAuto-offafter 15 minutes of inactivity (30 minutes before a READ measurement)Battery type / Lifealkaline 1.5 v AA (3) / > 800 measurements (without b EnvironmentOrdering InformationH197752 is supplied with sample cuvettes (2), sample caps (2), plastic stoppers (1.5 v AA batteries (3), instrument quality certificate, and instruction manual. CAL check standards and testing reagents (150 each)Reagents and StandardsH197752H197752-03 calcium and magnesium reagents for 300 Tests (150 each)H197752-01 magnesium reagents for 50 tests	Calcium	Range	0 to 400 mg/L (ppm) (as Ca ²⁺)
Accuracy@25°C (77°F)±10 mg/L ±5% of readingMethodadaptation of oxalate methodMagnesiumRange0 to 150 mg/L (ppm) (as Mg²*)MagnesiumResolution1 mg/LAccuracy@25°C (77°F)±5 mg/L ±3% of readingMethodadaptation of the calmagite methodMethodadaptation of the calmagite methodMethodadaptation of the calmagite methodMeasurementBandpass filterBandpass filter466 nmBandpass filter8 nmBandpass filter±1.0 nmUight DetectorSilicon photocellCuvette typeround 24.6 mm diameter (22 mm inside)Auto logging50 readingsDisplay128 x 64 pixel B/W LCD with backlightAuto-offafter 15 minutes of inactivity (30 minutes before a READ measurement)Battery type / Lifealkaline 1.5 V AA (3) / > 800 measurements (without b EnvironmentOrdering InformationH197752 is supplied with sample cuvettes (2), sample caps (2), plastic stoppers (1.5 V AA batteries (3), instrument quality certificate, and instruction manual. CAL check standards and testing respersite sold separatelyReagents and StandardsH197752Auto-StandardsH193752-03 calcium and magnesium reagents for 300 Tests (150 each)H193752-04 magnesium reagents for 50 tests		Resolution	1 mg/L
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MagnesiumResolution1 mg/LAccuracy @25°C (77°F)±5 mg/L ±3% of readingMethodadaptation of the calmagite methodLight Sourcelight emitting diodeBandpass filter466 nmBandpass filter8 nmBandpass filter8 nmBandpass filter9 nmAuto logging50 readingsDisplay128 x 64 pixel B/W LCD with backlightAuto-offafter 15 minutes of inactivity (30 minutes before a READ measurement)Battery type / Lifealkaline 1.5 V AA (3) / > 800 measurements (without b EnvironmentOrdering InformationH197752 is supplied with sample cuvettes (2), sample caps (2), plastic stoppers (1.5V AA batteries (3), instrument quality certificate, and instruction manual. CAL check standards and testing reagents (150 each)H193752-03 calcium and magnesium reagents for 300 Tests (150 each)H193752-03 calcium		Method	adaptation of oxalate method
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HI937520-03 magnesium reagents for 150 tests			HI937520-01 magnesium reagents for 50 tests
			HI937520-03 magnesium reagents for 150 tests
HI97752-11 CAL Check standard cuvettes for calcium			HI97752-11 CAL Check standard cuvettes for calcium
HI937521-01 calcium reagents for 50 tests			HI937521-01 calcium reagents for 50 tests
HI937521-03 calcium reagents for 150 tests			HI937521-03 calcium reagents for 150 tests

Calcium and Magnesium Portable Photometer

Advanced LED optical system

- Innovative optical design that utilizes a reference detector and focusing lens to eliminate errors from changes in the light source and from imperfections in the glass cuvette.
- LEDs have a much higher luminous efficiency, providing more light while using less power. They also produce little heat, which could otherwise affect electronic stability.

• CAL Check™

 Validate instrument performance at any time using CAL Check cuvettes made with NIST traceable standards. The CAL Check screen guides the user step-by-step through the validation process and user calibration.

• On-screen tutorial mode with animations

- Guides users step-by-step through the measurement process
- Waterproof and floating IP67 case
- Unit of measure is displayed along with reading

• Built-in timer

- Built-in reaction timer that ensures consistency between tests.
- Error messages on display
 - Alerts to problems including no cap, high zero, and standard too low

• GLP data

- Displays the last calibration date.
- Auto logging
- Battery status indicator
- Auto-shut off

Significance of Use

Calcium and magnesium both play important roles in the growth of plants. Calcium helps plant roots develop and increases the resistance and strength of plant tissues and stems. Magnesium is an indispensable mineral that helps in the production of chlorophyll, the light-absorbing green pigment that serves as an energy source for plants. It also increases vitamin concentrations and aids in uptake of phosphorus within the plant body.



Photometers

ติดต่อบริษัท นี่โอนิคส์ จำกัด

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