

20390

LASA AGRO 3900 Workstation

Information

For the plant producer, long waiting periods for analysis results means an unnecessary risk: immediate knowledge about the nutritional status of the plant is the Basis of successful agriculture and creates reliability in agricultural and horticultural management.

The ideal applications for the complete LASA AGRO 3900 workstation are particularly in:

- Quality laboratories of peat and substrate production
- Horticultural plant production, plant propagation
- Research institutes
- Horticultural and agricultural schools and universities
- Local government sector
- Agricultural and horticultural service centres

Automatic evaluation in:

- mg / 100 g soil
- mg / liter substrate
- mg / liter solution
no recalculation is needed

Place the prepared cuvette into the photometer and all relevant information provided on it will be immediately detected during the proven 10-fold rotation measurement. Everything is documented together with the measuring result.

Own methods with linear and non-linear calibration curves can be programmed via the spectra recording (320-1100 nm), concentration, extinction and turbidity measurement. The variable cuvette sizes of 10 to 50 mm thickness allow wide measuring ranges: from trace analysis in drinking water through the soil analysis to high concentrations in stock solutions.

Traceability starts with sampling reduce errors.

Use RFID* technology and trace your samples back to the sample location. All important information, such as the sample location, sample taker, date and time are saved on an RFID* tag on the sample bottle. And you can transfer this data to the laboratory in seconds using RFID* in the LASA AGRO 3900.

IBR+ increases the reliability of your measurement values

Lot number and expiry date information is now included on the 2D barcode, this additional information is transferred to the instrument and documented with the measurement value.

Rapid data updates

Programming of methods into a spectrophotometer has never been so easy. Simply hold the cuvette test box in front of the LASA AGRO 3900 RFID* module, wait for the signal tone and it's done. Measurement begins straight away with accurate evaluation data for an accurate result.

Quality assurance made easy with AQA+

QA procedures can now be easily defined and documented within the Instrument without additional software. Current batch certificates (for the purpose of GMP/GLP results documentation) can be found on the RFID* tag on the cuvette box. Thanks to this RFID* technology, all batch-specific information can be retrieved immediately on the LASA AGRO 3900 and printed out.

Data transfer is simple via USB or Ethernet

Transfer your measurement data easily via a USB stick or an Ethernet connection. The same applies for software updates. The LASA AGRO 3900 can install the most up-to-date device software from our website via Ethernet, so your photometer always has the latest update.

Technical Specifications

Technical data:

- **Application:** soil, substrate, water and leaf analyses
- Wavelength range: 320 – 1100 nm
- Wavelength reproducibility: ± 0.1 nm
- Wavelength resolution: 1 nm
- Wavelength accuracy: ± 1.5 nm (wavelength range 340 – 900 nm)
- Wavelength calibration: automatic
- Wavelength selection: automatic
- Beam Height: 10 mm
- Data storage: 2000 measured values / 100 user programmes
- Display: coloured touch-screen, 7 inch (17.8cm), 800 pix x 480 pix
- Enclosure waterproof rating: IP30
- Manual languages: German, English, French, Italian, Spanish, Portuguese, Czech, Danish, Dutch, Hungarian, Polish, Romanian, Russian, Slovenian, Swedish, Turkish, Greek, Finnish, Croatian, Bulgarian, Serbian, Slovakian
- Operating conditions: 10 °C – 40 °C / max. 80 % rH
- Storage conditions: -30 °C – 60 °C / max. 80% rH
- Operating mode: Transmittance (%), Absorbance and Concentration, Scanning
- Optical system: Reference beam, spectral

- Photometric accuracy: 1 % at 0.50 – 2.0 Abs / 5 mAbs @ 0.0 – 0.5 Abs
- Photometric linearity: < 0.5 % – 2 Abs / ≤ 1 % at >2 Abs with neutral glass at 546 nm
- Photometric measuring range: ± 3.0 Abs (wavelength range 340 – 900 nm)
- Power requirements (Hz): 50/60 Hz
- Power requirements (Voltage): 110 – 240 V AC
- Power supply: with external power supply
- Pre-programmed methods: > 220
- Spectral Bandwidth: 5 nm ± 1 nm
- Stray light: < 0.1 % T at 340 nm with NaNO₂
- Warranty: 2 years
- Dimensions: 151 × 350 × 255 mm
- Weight: 4.2 kg

ATTENTION:

Only LASA AGRO photometers supplied by STEP Systems are specially programmed for agricultural use with direct evaluation in mg / 100 g soil, mg / l substrate and mg / l solution.

[Video HOW-TO-USE](#)**The LASA AGRO 3900 workstation, contains the basic equipment of the system:**

- photometer LASA AGRO 3900
- 1 set variable easy-to-use piston pipettes with pipette tips
- cuvette holder for 16 tests
- multi-parameter standard solution addista LCA 703

Necessary accessories: [cuvette tests](#).

**RFID technology available in all EU countries plus e.g. Norway, Switzerland, Serbia, Macedonia, Turkey.*

For other countries, please ask us.

Item-No.: 20390 – LASA AGRO 3900 workstation without RFID

Item-No.: 20395 – LASA AGRO 3900 workstation with RFID