# 2J Aerosol Photometer

**Unmatched user conveniences, data integrity and security, and calibration precision from the world's most trusted photometer manufacturer.**




## Key Features

- **21 CFR Part 11 compliant** for collected data[1]
- **ISO/IEC 17025 accredited calibration**[2]
- Can be powered by an external battery for portable use
- Multiple user levels for greater data integrity and security[1]
- Large 17.8 cm (7 in.) color touchscreen with easy-to-read viewing angle
- Wi-Fi and USB connectivity for easy data transfer[1]
- Firmware updates can be performed by the user

[1] 2J PRO model only

[2] All calibrations from ATI USA and ATI UK facilities are ISO/IEC 17025 accredited. For calibrations outside ATI, contact your local service center.

## Models

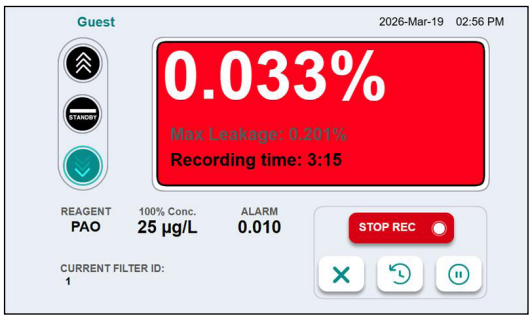
- **2J**: Standard features (see inside)
- **2J PRO**: Standard 2J features plus data storage, data security, leak test traceability, and multiple user levels
- **2J-N**: Hardware designed for hazardous environments, meets ASME N511, ASME N510, ASME N509, and ASME AG-1
- **2J-N PRO**: Standard 2J-N features plus data storage, data security, leak test traceability, and multiple user levels

# USER CONVENIENCES

Get the job done faster with a user-friendly interface and ergonomic hardware.

## Intuitive, Easy-to-Use Interface

- Fast and easy setup—begin scanning right away
- Critical leak test parameters displayed on screen
- Easy to change Reagent, Upstream Concentration, and Alarm Set Point
- Users can perform firmware updates to add features
- Supports multiple languages
- On-board help




Alarm state is highly visible and audible

## Hardware Engineered for Convenience

- 17.8 cm (7 in.) scratch-resistant color touchscreen compatible with nitrile gloves
- Angled high-resolution display for optimal viewing
- Standby Mode turns off the pump, extending battery life and minimizing noise
- Lightweight, 7.7 kg (17 lbs) and durable
- Enhanced flow control: +/-5%
- Easy to wipe clean




Hardware is designed for ease of use

## Key Functions Controlled Directly from J-Probe

- Large, 10.9 cm (4.3 in.) color touchscreen
- Enable the Upstream/Downstream/Standby functions from J-Probe
- Start and Stop leak scans from the J-Probe
- Send leak test results to the optional thermal printer




J-Probe's ergonomic design provides efficient operation of the photometer

## External Battery (Optional)

- The 2J can be operated with an external battery
- Use any commercially available battery (min. 100W output with USB-C connection)
- External battery is hot-swappable within 10 seconds, avoiding shutdown when switching to/from battery power
- Scan ~20 standard 0.61 x 1.22 m (2 x 4 ft) HEPA filters with normal operation using a 26K mAh capacity battery[3]

[3] Using battery purchased from ATI. Individual performance may vary. Visit www.ATItest.com for specifications.




External battery for ease of use

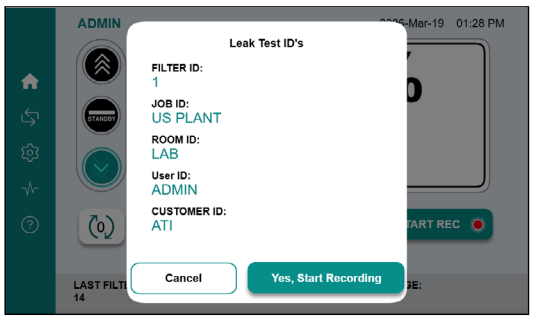
# DATA INTEGRITY AND SECURITY

2J PRO model only

The 2J PRO offers unmatched leak test traceability, data storage and reporting.

## Leak Test Results Traceability

- Leak test IDs provide traceability of each saved leak test
  - User ID
  - Filter ID
  - Job ID
  - Room ID
  - Customer/Site ID
- Leak test IDs are included with all saved and printed reports




Leak test IDs

## Data Storage and Reporting

- Leak test results are saved as a PDF (Summary and Detailed) and CSV file
- 64GB of storage, up to 150,000 saved scans
- Data retrieved after applying filters
- Data can be exported via Wi-Fi, USB flash drive, or optional thermal printer
- Previously saved leak test results are viewable on the unit

```
Model:                  2J Aerosol Photometer
Base Serial Number:     73502
Probe Serial Number:    72889
Probe Type:             J-Probe
Firmware Version:       1.0.0.1
Cal Due Date:           2027-03-04
Current Date:           2026-03-12

============================================================

Job ID:                 123456
Room ID:                00313
Filter ID:              00016
User ID:                userID9
Customer ID:            ATI
Setup:                  Internal Ref
Agent:                  PAO
Actual Concentration:
Upstream Concentration: 95
Rewind count:
Scan Start Time:    2026-03-12, 15:51:40.268
Scan End Time:      2026-03-12, 15:52:11.976
Effective Scanning Time:   0000-00-00, 00:00:20.397
Leakage Alarm % Value:  0.0009
Max Leakage % Value:    0.0014
Alarm Exceeded:     YES

============================================================

Scan Comments:      "REST"

Operator Signature: _____________________________

Witness Signature:  _____________________________

============================================================

2026-03-12 15:51:40.340  0.0010  FAILED
2026-03-12 15:51:40.738  0.0010  FAILED
2026-03-12 15:51:41.140  0.0010  FAILED
2026-03-12 15:51:41.791  0.0010  FAILED
2026-03-12 15:51:41.988  0.0012  FAILED
```

PDF summary report




Data management

# DATA INTEGRITY AND SECURITY

2J PRO model only

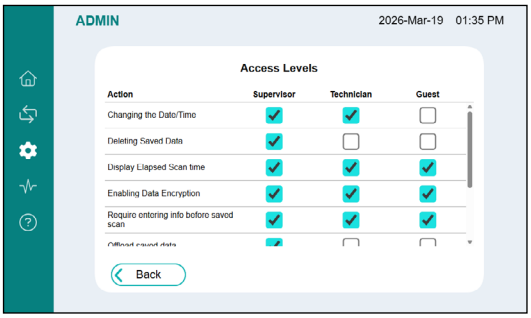
Choose the 2J PRO when data integrity and security are critical.

## Data Security

- Saved leak test results cannot be edited on the 2J, meeting **21 CFR Part 11 requirements**
- Saved leak test data can be password protected
- User login for additional data integrity and traceability

## Multi-User Level Access

- Four user levels – Administrator, Supervisor, Technician, and Guest
- Each user has a unique username and password
- Administrator can determine which functions are available for each user level
- Up to 1000 users can be created




User access level screen

## Audit Trail

- **21 CFR Part 11 compliant** with 30,000 recorded activities
- Captures all changes with date/time stamp:
  - System settings
  - Operational settings
  - User log in / log out
- Only Administrator level user can download the audit trail

## 2J vs. 2J PRO

| FEATURE | 2J | 2J PRO |
|---|---|---|
| **Data Integrity and Security:**<br>• Test results traceability<br>• Leak test data storage and reporting<br>• Data security<br>• Multi-user level access<br>• Audit trail | | ✓ |
| **User Conveniences:**<br>• Intuitive, easy-to-use interface<br>• Hardware engineered for convenience<br>• Key functions controlled directly from J-Probe<br>• External battery (optional) | ✓ | ✓ |
| Supports multiple languages | ✓ | ✓ |
| ISO/IEC 17025 accredited calibration from ATI | ✓ | ✓ |
| Thermal printer compatibility | ✓ | ✓ |
| User-enabled firmware updates | ✓ | ✓ |
| On-board help | ✓ | ✓ |

Short 2J product video

# SPECIFICATIONS AND ACCESSORIES

## PRODUCT SPECIFICATIONS

| | |
|---|---|
| Dimensions (L x W x H) | 39.1 cm x 25.4 cm x 17.8 cm (15.4 in. x 10.0 in. x 7.0 in.) |
| Weight | 7.7 kg (17.0 lbs) |
| Display/Touchscreen | 17.8 cm (7 in.) scratch-resistant color touchscreen<br>Supports multiple languages |
| Power<br>Included Power Adapter | Minimum Input Power and Connection: 100W, USB-C<br>Input: 100 to 240V, 50/60 Hz<br>Output: 100 watts USB-C |
| Auto Zero | Automatically establishes zero reading at startup<br>User-enabled re-establish zero |
| Alarm | User-selectable audible, visual, and vibratory (J-Probe only) |
| Flow Control | 1 cfm (28.3 lpm) +/- 5% |
| Reagent Settings | PAO-4, PAO-4 High, DOP (DEHP), DEHS (DOS), Ondina, Paraffin, User-Defined Reagents |
| Dynamic Range | 0.0001 mg/m³ (µg/l) to 120 mg/m³ (µg/l)<br>Up to 600 mg/m³ (µg/l) PAO High |
| Accuracy | 1% of readings (0.01% to 100%) |
| Repeatability | 0.5% of readings > 0.01% to 100% |
| Data Output | Thermal printer (optional), USB, Wi-Fi (2J PRO only) |
| Data Storage (2J PRO only) | 64GBs. Up to 150,000 saved scans. |
| Reports (2J PRO only) | Leak test results saved as a PDF and CSV files |
| Users/User Levels | Four User Levels (Admin, Supervisor, Technician, Guest)<br>Up to 1000 unique users can be created |
| Standards Compliance<br>Industry | 21 CFR Part 11, ISO 14644-3, NSF-49, IEST-RP-CC034, EN 12469, ISO/IEC 17025 (ships from ATI with ISO/IEC 17025 accredited calibration) |
| Electrical & Safety | CE, UKCA, EN 61010-1:2010, EN 61326-1:2021, FCC Part 15 Subpart B, ISED Canada ICES-003 Issue 7 |

Scan for more info

## Product Bundles

- **2J Bundle, p/n 2J-BNDL**
  2J, J-Probe, Case
- **2J PRO Bundle, p/n 2J-PRO-BNDL**
  2J PRO, J-Probe, Case
- **2J-N Bundle, p/n 2JN-BNDL**
  2J-N, J-Probe, Case
- **2J-N PRO Bundle, p/n 2JN-PRO-BNDL**
  2J-N PRO, J-Probe, Case

## Optional Accessories

- **Thermal Printer, p/n 2J-THERM-PRNT**
- **External Battery, p/n 2J-EXT-BTY**
  (see page 2)




**Carrying case**
• Holds bundle plus thermal printer and external battery



**Thermal printer**
• Rechargeable internal battery
• 58 mm (2.25 in.) wide thermal paper
*Visit www.ATItest.com for specifications*

# THE ATI DIFFERENCE

## TRUST IN YOUR PHOTOMETER

Calibration matters. ATI's patented CALIBRA™ system provides significant advances in 2J calibrations and multi-point aerosol linearity verification.



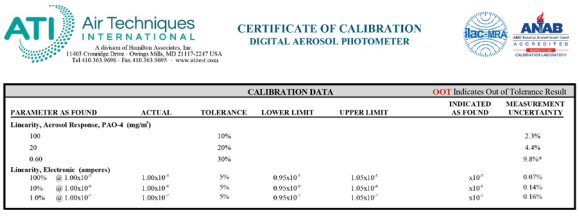
CALIBRA™ 800 Precision Aerosol Source

### Better Calibration = Better Performance

- The CALIBRA™ 800 Precision Aerosol Source achieves a more stable aerosol concentration and consistent Particle Size Distribution (PSD), resulting in improved consistency
- The CALIBRA™ System enables a more accurate gravimetric measurement through automated control of the process and stringent methodology

### Linearity Verification = Reduced Risk

- ATI's Linearity Verification (LV) service examines the instrument's photometric and electronic response throughout its operating range
- The tests provide complete linearity verification, reducing quality risks
- Documented results



ATI Air Techniques INTERNATIONAL

CERTIFICATE OF CALIBRATION
DIGITAL AEROSOL PHOTOMETER

CALIBRATION DATA — OOT Indicates Out of Tolerance Result

| PARAMETER AS FOUND | ACTUAL | TOLERANCE | LOWER LIMIT | UPPER LIMIT | INDICATED AS FOUND | MEASUREMENT UNCERTAINTY |
|---|---|---|---|---|---|---|
| Linearity, Aerosol Response, PAO-4 (mg/m³) | | | | | | |
| 100 | | 10% | | | | 2.3% |
| 20 | | 20% | | | | 4.4% |
| 0.60 | | 30% | | | | 9.8%* |
| Linearity, Electronic (amperes) | | | | | | |
| 100% @ 1.00x10⁻⁷ | 1.00x10⁻⁷ | 5% | 0.95x10⁻⁷ | 1.05x10⁻⁷ | x10⁻⁷ | 0.07% |
| 10% @ 1.00x10⁻⁸ | 1.00x10⁻⁸ | 5% | 0.95x10⁻⁸ | 1.05x10⁻⁸ | x10⁻⁸ | 0.14% |
| 1.0% @ 1.00x10⁻⁹ | 1.00x10⁻⁹ | 5% | 0.95x10⁻⁹ | 1.05x10⁻⁹ | x10⁻⁹ | 0.16% |

ISO/IEC 17025 accredited calibration

## TRUST IN ATI

ATI, founded in 1961, revolutionized the world of specialized test equipment with the introduction of its first portable photometer. Since then, ATI has grown to become the global leader in designing and manufacturing precision instruments used to test and certify HEPA filters, filter media and cartridges, respirators, and protective masks. Our photometers, known for their quality and reliability, are trusted worldwide in critical environments that protect human health and essential infrastructure.

Experience the ATI difference:

- Comprehensive quality control
- Excellent service & support
- Extensive knowledge & experience

ATI is the world's only photometer manufacturer with **ISO/IEC 17025 accreditation and ISO 9001 certification**!




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