



TSI – NEWS

APSS new laser & Updated MPSS software

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Aerosol In-Situ Community Meeting, Oct 2026

APS 3321 with new laser



- Original APS laser specified more than 25 years ago, design guidelines did not anticipate today's continuous 24/7 ambient-monitoring application
- Now: current laser design guidelines incl. greater emphasis on long-term reliability and continuous operation.
- TSI has successfully applied these guidelines to lasers in our CPC products, which operate continuously in 24/7 ambient-monitoring applications without laser-related issues.
- The new laser meets TSI's current quality & performance requirements for APS 3321. Engineering work is finalized & first units are repaired with new laser
 - 30 mW laser was replaced with a 120 mW version in the same series (operating at lower % power level allows for longer lifetime).
 - Same APS specs and calibration
 - A specific lifetime (> 3 years) has not yet been validated. TSI cannot currently provide a quantitative lifetime guarantee; we expect the new laser to be substantially better suited to continuous ambient monitoring.

APS 3321 with new laser



- What does this mean for APS service?
 - All open warranty repairs will be covered with the new laser.
 - 24/7 monitoring customers (incl. all ACTRIS customers) with an APS less than 3 years old, will receive a laser as part of their next calibration. → temporary new part number: CL-3321-AMBIENT
 - Price CL-3321-AMBIENT = CL-3321
 - Any repair (RP-3321) with a defective laser includes automatically the new laser.
 - It can be also ordered as upgrade of the existing APS 3321 (any age, please add comment “upgrade to new laser” on the service request).
- Any special APS cases or service requests → contact your TSI sales representative or Tech Support / App. Engineering

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TSI Firmware & Software AIM 11

Overview CPC & SMPS (MPSS)



- Keep CPC Firmware updated! (2.4.10)
 - Allows “true” deletion of internal memory via JSON commands
 - Programming Guide for commands
 - Older CPCs might need extra screen re-alignment (onsite)



CPCs 375x & 3789

3750-10 / 3750-CEN10

Base
version

AIM11 (current version 11.6.0)
Firmware CPC: 2.4.10

Shown as „11.5.1.Basic version“

- Keep AIM 11 SMPS software updated (11.5.1)
 - Older AIM11 has issues with latest Windows11 updates (WMIC feature)

Extended
version for
long-term
monitoring

AIM11CPCMONITORING

Shown as „11.6.0.Full version“



SMPS 3938 [N/L/E/W] [5x/89]

3938W-PP-50-CEN10

AIM11SMPS
(current version 11.5.1)
Firmware 3082: 3.1

Shown as „11.5.1.Basic version“

AIM11SMPSMONITOR

Shown as „**11.5.1.Full version**“

Software / Firmware status Aug 2026

Questions & Comments

