

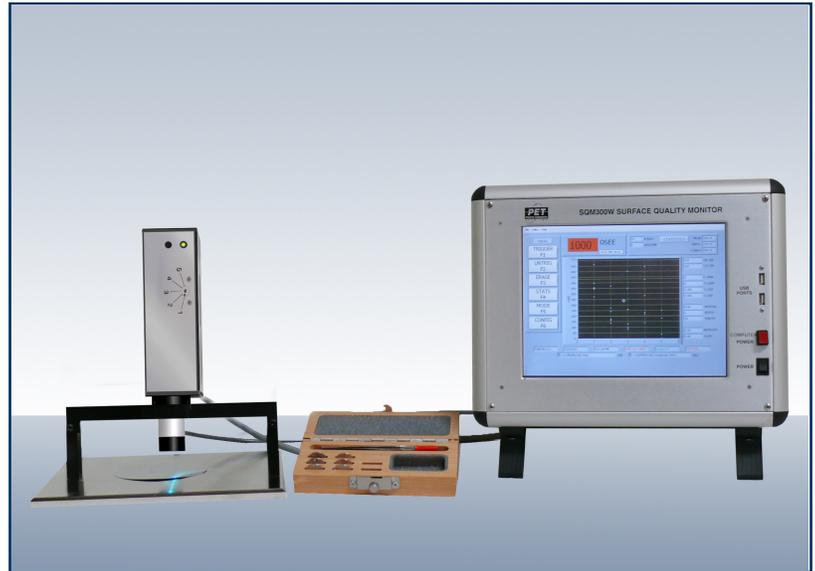
SURFACE QUALITY MONITOR

SQM300W

HOW CLEAN IS CLEAN? QUANTIFY SURFACE CLEANLINESS.

BENEFITS

- **Reduce cost** of not monitoring surface cleanliness.
- Have **peace of mind**, objectively monitor your cleaning and rinsing process.
- **Add value** by minimizing or eliminating rework or poor product performance due to improper surface cleanliness.
- **Optimize surfactant use** - know correct concentration and when to replace or replenish the surfactant.
- **Save time** - eliminate guesses about adequacy of surface cleanliness as the cause of problems downstream
- **Speed up problem identification** by eliminating surface contamination as a problem source.



APPPLICATIONS

SURFACE CLEANLINESS/ CONTAMINATION MONITORING

- Establish a quantitative measure of the level of cleanliness achieved by the current cleaning process
- Evaluate new or alternate cleaning processes to determine if they can accomplish the same level of cleanliness as the current cleaning process
- Optimize any cleaning process by evaluating how the surface cleanliness is affected by any changes made to the process
- Establish a quantitative measure of the "Acceptable Level of Cleanliness"
- Monitor the cleaning process on an on-going basis to assure that the established level of cleanliness is being achieved
- Optimize rinse cycle and monitor rinse cycle to ensure that parts have been properly rinsed.
- Detect organic and/or inorganic surface contamination
- Replace water break test with quantitative measure of surface cleanliness

LUBRICANTS, COATINGS OR THIN FILMS

- Detect absence/presence of invisible/clear thin films or coatings or lubricants on virtually any surface.
- Monitor relative thickness of very thin films or coatings or lubricants both off-line and on-line.

CHEMICAL STATE OF ANY SURFACE

- Detect micro changes in the chemical state of any surface.
- Monitor the effect of any environment on the cleanliness of product surface or witness panels.
- Detect deposit/s on surface of stored components from out-gassing of storage containers or packing materials.



Photo Emission Tech., Inc.

862 Patriot Drive, #F, Moorpark, CA 93021-3063 USA

Tel: 805-482-5200 • Fax: 805-482-5252

Email: sales@photoemission.com • www.photoemission.com

SURFACE QUALITY MONITOR

SQM300W

DETAILED PRODUCT SPECIFICATIONS

Control Unit Model # 60226:

- Computer Controlled Digital System
- USB Ports
- Flat Panel Color display
- Analog Output Signal (0 - 10V)
- Parallel Printer port
- Hard Disk Data Storage

Software Features:

- Maximum and Minimum Acceptance Limits; Manual and automatic setting
- Programmable Gain, 1-2-4-8; Manual and Automatic Setting
- Ability to store virtually unlimited number of inspection setups and data for future recall
- Peak Detect feature with automatic Reset
- Ability to change the measuring units from OSEE to thickness, in Angstroms or Mg/Sq. Ft. Also features user defined units of measurements.
- Hard Disk data storage
- Transfer data in spreadsheet format to a floppy diskette
- Display of Data Statistics with Mean and Standard Deviation, automatically updated as new data is added
- Graphics display on screen, automatically updated as new data is gathered
- Ability to take several measurements per sample and display sample variation
- Ability to print data and Screen Image

Sensor Model # 60792:

- Mercury Vapor UV Lamp
- Gain Control Switch, 5 settings
- Inspection Area 0.525" (13.3 mm) Diameter
- Accept/Reject LED Indicators

Sensor Stand Model # 60791:

- Sensor clamp
- Manually operated micrometer for Sensor height adjustment, 1" (25 mm) stroke

Aperture Set Model # 60561:

- 6 Apertures with different Inspection area openings
- Tweezers
- Allen wrench and mount screws
- Gain Switch adjusting tool
- Case

APPLICATIONS SUPPORT

Extensive Applications support is available through the factory **including sample testing** and reporting. Please contact the factory or your local representative for further assistance.

EQUIPMENT CONFIGURATION & PHYSICAL SPECIFICATIONS

COMPONENT PARTS	DESCRIPTION	QTY	SIZE	WEIGHT
60226	CONTROL UNIT	1	11" x 14" x 14 1/2"	27 lbs.
60792	SENSOR	1	8.75" x 2.125" x 4"	4 lbs.
60791	SENSOR STAND	1	9 1/4" x 9 1/4" x 4 3/4"	6 lbs.
60561	APERTUR SET	1	1/16" to 1/4" Dia. and slotted apertures (total 6)	1 lb.

OPTIONS

60780 - 6" x 1/4" Rectangular Area Sensor 60778 - 1/2" Dia. L-Shaped Sensor
60779 - 2" x 1/4" Rectangular Area Sensor
Extra Long Sensor Cables (Standard Sensor Cable length is 6', additional length ordered by the foot)

Extended Warranty: Second Year Parts & Labor

Specifications subject to change without notice.

REPRESENTED IN YOUR AREA BY



Photo Emission Tech., Inc.

862 Patriot Drive, #F, Moorpark, CA 93021 USA

Tel: 805-482-5200 Fax: 805-482-5252

Email: sales@photoemission.com

www.photoemission.com