



Introducing... the N-2

NanoSpec performance upgrade by... Foothill Instruments, LLC



Old NanoSpec® Film Thickness System

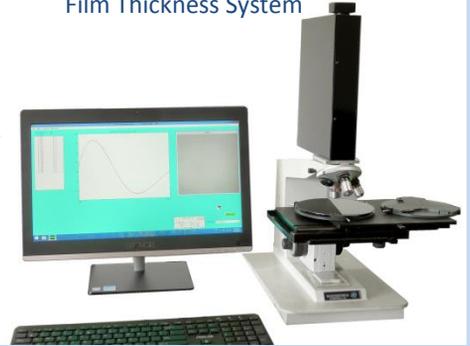


N-2 UPGRADE PACKAGE
Add 21st Century Technology and Performance to your Obsolete NanoSpec®!

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- Measure 8X Faster
- Real Accuracy & Precision
- Reduce Fatigue & Eye Strain
- Measure More Films & Stacks
- Not Obsolete, Get Real Support

Superior Performing N-2 Film Thickness System



Description

The original equipment manufacturer *no longer supports* its older NanoSpecs leaving customers searching for third party service when failures occur. In addition, these mechanical spectrophotometers with their simplistic *film-approximations* are not suited for today's manufacturing tolerances. An *upgrade path is now available* for these under-performing and unsupported film thickness measurement systems.

Breathe new life into your *obsolete NanoSpec 0174, 0180, 0181, 200 or 210* with the **N-2** conversion. The old mechanical spectrophotometer is replaced with a modern solid-state version, integrated long-life illumination system and a digital imaging system. A Windows 8 PC equipped with sophisticated film metrology algorithms and software replaces the 1970's computer-architecture and firmware. The **N-2** conversion transforms the dying NanoSpec into a useful asset that will provide additional years of service with performance beyond the OEM's original intent.

Additional Features & Benefits

- Affordability allows funding from maintenance budgets.
- Classic NanoSpec gross measurement errors (a.k.a. order jumping) are eliminated with modern technology.
- Digital imaging displays measurement site on FPD eliminating eye-strain commonly associated with the old NanoSpec monocular.
- Sophisticated algorithms expand film/stack library.
- Eliminating classic NanoSpec gain-pot and wavelength adjustments improves performance and simplifies operation.
- Reflectance vs wavelength is graphically displayed with data modelling fit curve.
- FPD simultaneously displays active measurements, spectral curves, video image of measurement target and statistics.

Specifications

- Thickness Range with 10X Lens: 30nm to 25 µm
- Thickness Range with optional 4X Lens: 30nm to 70 µm
- Measurement Time: < 1 second
- Measurement Spot Size Using 10X: 10 µm
- Short-Term Repeatability¹: 1 nm
- Long-Term Repeatability²: 1 nm
- Lamp Life: 5,000 hours
- Wavelength Range: 450 to 850 nm

Notes: oxide on silicon material stack used to establish measurement specifications. 1) 1 sigma for 20 fixed-point, consecutive measurements of 10 µm oxide on Si. 2) 1 sigma of daily average of short term repeatability over 30 days.

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