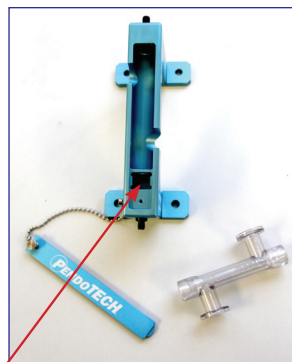


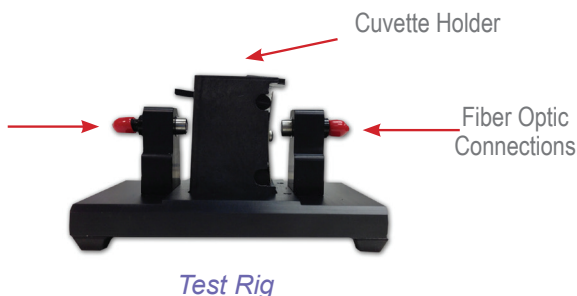
## UV/VIS/NIR Photometer Test Rig

The PendoTECH® Photometer Test Rig and Standards (SPEC-280-TRS) is designed for quick and easy accuracy verification of PendoTECH's UV/VIS/NIR Photometers. The test rig holds cuvettes containing NIST traceable filters. The absorbance of each filter versus wavelength has been determined on a qualified spectrometer. Users can connect their photometer to the test rig via the fiber optic cables supplied with the unit and use the NIST traceable filters to compare the PendoTECH photometer to the qualified spectrometer. Users may also use a PendoTECH Flow Cell Stand (SPEC-FCH-S, SPEC-FCH-L) in place of the test rig to hold the cuvette with the filter.

There is a blank and filters are included for 5 approximate absorbance values: 0.5, 1.0, 1.5, 2.0, and 3.0. As absorbance is dependent on wavelength, the filter actual values for a given wavelength are provided as determined on the qualified spectrometer. The wavelength range covered is from 255 to 1000nm.



*The Flow Cell Stands feature a compartment to place the cuvette with the filter for photometer calibration verification*



*Set of Filter Standards*

To use the test rig, fiber optic cables supplied with the PendoTECH UV/VIS/NIR photometers are attached to the photometer and to the test rig/flow cell stand, thru the standard SMA 905 fittings. The cuvette with the filters are placed in the cuvette holder and held securely in place with a band clamping device that gently applies pressure to ensure consistent positioning. The blank cuvette (0 absorbance) is inserted into the cuvette holder first and the photometer is tared to zero AU. Then the remaining filters are inserted, and the output from the photometer is recorded for each filter and compared to the value of the filter measured on the qualified spectrometer.

The following handling and use techniques are suggested:

- Ensure that the fiber optic cables are firmly hand tight
- Store the holder with blank cuvette installed
- Keep the windows clean on the cuvette filters; either blow off with compressed air or use spectroscopic grade alcohol and lint free cloth for cleaning
- Ensure transmitter is fully tared by holding tare for at least 5 seconds



*Test Rig Connection to Photometer*

### Ordering Information

SPEC-280-TRS	Test rig and standards for PendoTECH UV-VIS-NIR photometers with UV Cuvette holder with integral optical couplers (to attach fiber optic cable) and 5 UV filter standards with NIST certificates for each
SPEC-TRS-FILT	Set of Neutral Density Standards (blank and 5 filters), 0-3AU, carrying case, with NIST certificates for each
SPEC-TRS-3AU	Addition of 3AU cuvette to existing SPEC-280-TRS test rig. Must be purchased with SPEC-TRS-RECERT recalibration service

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 For warranty information see our website at <http://www.pendotech.com/warranty>