

## Dionex AD20 UV Detector

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This Dionex AD20 Absorbance Detector is a dual-beam, variable wavelength photometer. Full spectral capability is provided by two light sources: a deuterium lamp for ultraviolet detection and a tungsten lamp for visible wavelength operation. The Dionex AD20 features programmable wavelength selection and automatic calibration for precision, reproducibility, and ease-of-use.

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### Specifications:

**Light Sources:** Deuterium lamp (30 W) for ultraviolet spectrum analysis; tungsten lamp (10 W) for visible spectrum analysis.

**Wavelength Range:** 190 to 800 nm variable; continuous in 1 nm steps.

**Wavelength Accuracy:**  $\pm 1$  nm.

**Bandwidth:** 8 nm

**Absorbance Range:** Discrete settings: of 0.001, 0.002, 0.005, 0.01, 0.02, 0.05, 0.1, 0.2, 0.5, 1.0, and 2.0 AU

**Autozero Capability:** 2 AU

**Autozero Accuracy:**  $\pm 100$  uAU

**Noise:** less than 10 uAU peak-to-peak at 254 nm, 2-second rise time, flowing deionized water.

**Drift:** less than 100 uAU/hour (after warm-up), less than 100 uAU/oC (after warm-up)

**Filter Rise Time:** Discrete settings of 0.05, 0.1, 0.2, 0.5, 1.0, 2.0, 5.0, or 10.0 seconds.

**Analog Output Range:** Discrete settings of 0.001, 0.002, 0.005, 0.01, 0.02, 0.05, 0.1, 0.2, 0.5, 1.0, and 2.0 AUFS

**Cell Body:** PEEK.

**Volume and Optical Path Length:** Standard bore cell, used with 4 mm (0.016 in) columns: 9 mL volume, 10mm (0.002 in) optical path length.

**Maximum Operating Pressure:** 1.38 mPa (200 psi) with a heat exchanger; 3.45 mPa (500 psi) without a heat exchanger.

**Chemical Compatibility:** The use of a base stronger than 0.1 M is not recommended, as it will etch the silica windows.

The unit is fully operational and in good working order.