# OPT-DISS 410

## IN-SITU FIBER OPTIC UV FOR DISSOLUTION TESTING

The Opt-Diss 410 brings dissolution measurement directly to the vessel, eliminating the need for manual or automated sampling along with the associated consumables, labor, and off-line analysis. Choose from patented ARCH probes, designed specifically for dissolution testing with negligible hydrodynamic impact, or the new patent pending Variprobe Adjustable Pathlength Dip Probe, which easily adjusts between 2mm, 5mm, 10mm, and 20mm pathlengths to accommodate a range of sample concentrations. By moving light rather than liquids, the in-situ fiber optic UV system of the Opt-Diss 410 removes the need for filters, tubing, and syringes, saving time, labor, and costs, while enabling near real-time data collection with sample points as frequent as every five seconds.

FIBER OPTIC UV

### SIMPLE & EFFICIENT DISSOLUTION TESTING

Automated data collection and analysis take the test from start to report in real-time, with no operator interaction required. Data can be collected as frequently as every 5 seconds, with no extra effort.

### MULTICOMPONENT ANALYSIS

Measure two components in the same dissolution test without the need for LC, including products with two APIs or interaction with excipients, coatings, capsules, or any other source of deviation of the UV spectra.

### RAPID & ROUTINE DATA COLLECTION

With acquisition speeds as fast as 5 seconds for all vessels, collecting near real-time dissolution profiles is ideal for formulators to understand complicated release dynamics as it occurs.

### INDUSTRY APPROVED

Leading pharmaceutical companies, along with the FDA and USP, have adopted the Opt-Diss by Distek.

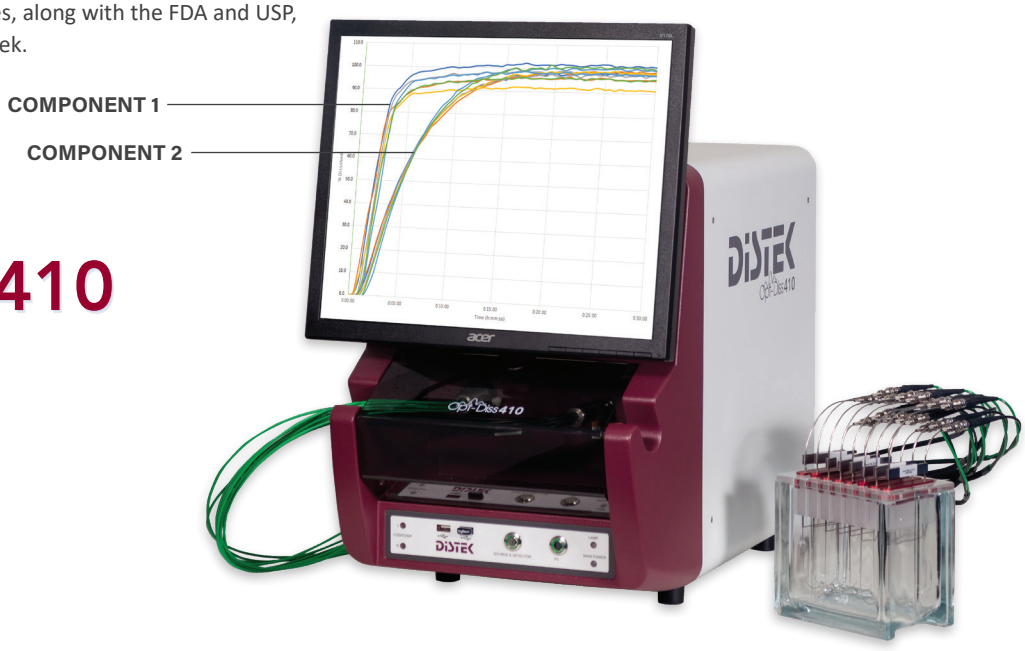
### IN-SITU UV MEASUREMENTS

Keeping the science in the vessel! The Opt-Diss 410 measures directly in the vessel, eliminating manual or automated sampling along with the associated consumables, labor and off-line analysis.

- Choose from patented ARCH probes designed specifically for dissolution testing with negligible hydrodynamic effect.
- Or Distek's new patent pending Variprobe Adjustable Pathlength Dip Probe. Easily switch between 2mm, 5mm, 10mm, and 20mm pathlengths to accommodate a range of sample concentrations.

### SINGLE SOFTWARE PACKAGE

21 CFR Part 11 compliant, the Opt-Diss 410 is the only fully integrated UV fiber optic dissolution solution with a single software package controlling the entire system.



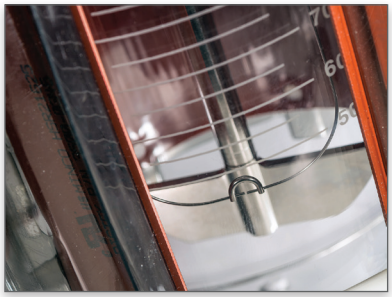

Helping Science Improve Lives

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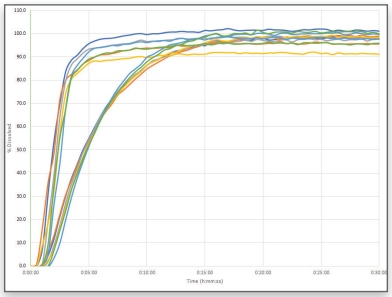
## IN-SITU FIBER OPTIC UV FOR DISSOLUTION TESTING

FIBER OPTIC UV

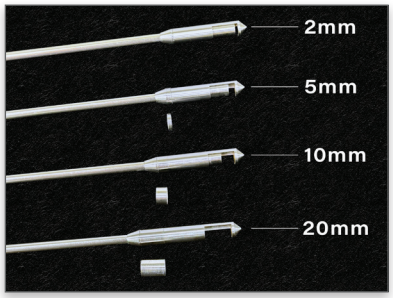
| | SPECIFICATIONS |
|---|---|
| **21 CFR PART 11 COMPLIANCE** | Yes |
| **LIGHT SOURCE** | Deuterium Lamp |
| **DETECTOR** | Scientific Grade CCD Detector Optimized for UV |
| **UV RANGE** | 200 - 405nm ±5nm |
| **WAVELENGTH ACCURACY** | ±2nm or Better |
| **CHANNEL CAPACITY** | Up to 12 Channels |
| **PROBES** | ARCH Probes, Variprobes, and Dip Probes |
| **ARCH PROBE PATHLENGTH** | .25mm, .5mm. 1mm, 2mm, 5mm, and 10mm |
| **VARIPROBE / DIP PROBE PATHLENGTH** | 2mm, 5mm, 10mm, and 20mm |
| **SPECTRA COLLECTION** | As Fast as Every 5 Seconds |
| **ABSORBANCE RANGE** | 0 - 2.0 AU |
| **STRAY LIGHT** | <1% |
| **SHORT-TERM NOISE** | ±0.002 AU, 100 Seconds at 250nm |
| **LONG-TERM NOISE** | ±0.005 AU, 1 Hour at 250nm |
| **DISSOLUTION INSTRUMENT CONTROL** | Distek Model 2500 / 2500 RTD / 2500 Select, Evolution 6100 / 6300 & symphony 7100 (With Software Rev 2.00 or Greater) |
| **COMPATIBLE WITH MOST DISSOLUTION INSTRUMENTS** | Yes |
| **LAB TEMPERATURE MIN / MAX** | 20°C / 25°C |
| **LAB HUMIDITY MIN / MAX** | 20% / 80% relative humidity |
| **ELECTRICAL POWER** | 115 - 230V ± 15V 50/60 Hz 10A (factory preset for one range) |
| **WEIGHTS & DIMENSIONS** | 55 lbs. / (25 kg)<br>13” (w) x 22.5” (h) x 22” (d)<br>33 cm (w) x 57 cm (h) x 56 cm (d) |



Patented Distek ARCH probes eliminate bubble formation and particulate entrapment common in other fiber optic systems.



Multicomponent analysis enables simultaneous quantification of two components without separation.




The new patent pending Variprobe Adjustable Pathlength Dip Probe adjusts between 2mm, 5mm, 10mm, and 20mm pathlengths.

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