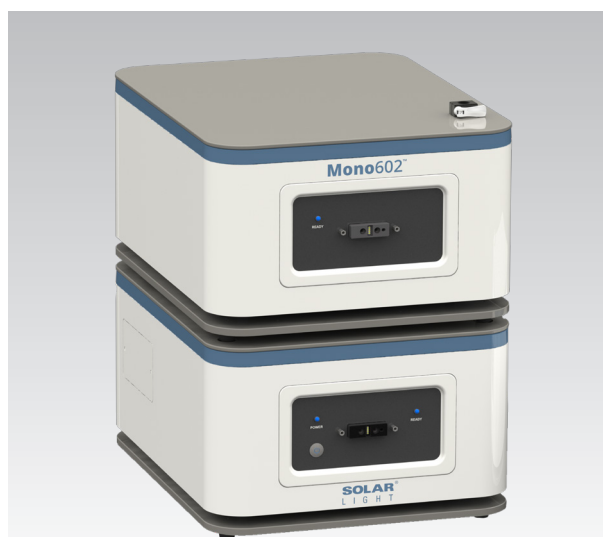
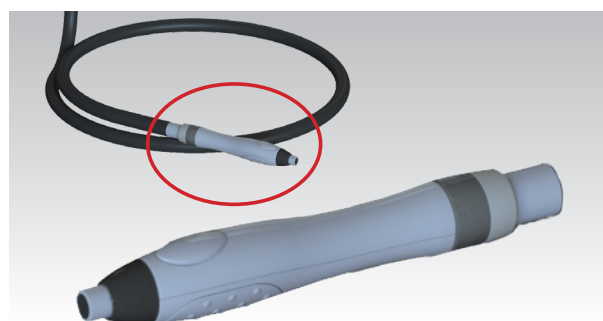


Hybrid Diffuse Reflectance Spectroscopy (HDRS) non-invasive SPF methods, in accordance with the ISO/DIS 23698 proposed standard, are currently being evaluated as an alternative to *in vivo* SPF testing to provide  $UVA_{PF}$  and SPF values while eliminating the ethical and safety considerations present with current erythema *in vivo* test methods. Solar Light has developed this disruptive technology to augment its own technology used in the industry for the past 50 years. This new technology can be used today as an *in vivo* screening tool for development purposes.

As the Global Leader providing the current gold standard for SPF measurements today, Solar Light has developed the fastest performing DRS instruments on the market, keeping product research, formulation and clinical testing in mind. HDRSplus<sup>™</sup> software is designed specifically for a clinical testing laboratory environment and simplifies all HDRS calculations.



Solar Light - Mono602<sup>™</sup>



Ergonomic Design, Glowing Indicator

### APPLICATIONS

- ISO/DIS 23698 Proposed SPF Measurement Standard
- Formulation Screening for Clinical Testing for Static, WR SPF and  $UVA_{PF}$
- Spreading Analysis Used for Technician Training

### FEATURES

- Fast SPF and  $UVA_{PF}$  Results
- Typical 30 Seconds per Measurement
- Easy SPF & *In Vitro* Data Handling & Results
- Integrated Data Processing System, Automated Computations and Data Reporting
- Non-Invasive (No Skin Erythema)
- Monochromatic Measurements from 290nm - 400nm
- $UVA$  Spectral Absorption Curves for Each Sample
- Total Energy is Below the International UV Safety Measurement Threshold Minimums and Does Not Require Technician or Subject Safeguards
- Subjects May Participate in a HDRS Test Once Per 7 Days
- Laptop and HDRSplus<sup>™</sup> Software Included
- Visual Indicator for System Ready and Measurement Status
- Small Footprint to Minimize Bench Space



Solar Light's DRS Family - Mono602™ and Poly602™

### SOLAR LIGHT'S HDRS PACKAGE INCLUDES

- Mono602™ DRS Instrument
- Solar Light's LS1000 Pre-Irradiation Solar Simulator
- Solar Light's SPF290 UV Transmittance Analyzer
- PMMA plates; Sandblasted or Molded
- RestAssured® Service, Maintenance and Warranty

### IQ/ OQ

- Ensure your Scientific Readings Meet Rigorous Standards with our Comprehensive Instrument Qualification and Operational Qualification Services

### TRAINING

- Available Remote or On-Site for Instrument Operation and Maintenance
- ISO/DIS 23698 Procedure
- ISO 24442, 24443, 24444 Procedures

### DRS KIT INCLUDES

- Mono602™ Instrument
- Fiber Optic and Wand
- Power and Interface Cable
- Laptop Computer with HDRSplus™

### SPECIFICATIONS

|  |   |
|--|---|
| <b>Model Number</b>                      | Mono602™  |
| <b>DRS Spectrum</b>                      | 290-400nm   |
| <b>Operating Conditions</b>              | 15 to 35°C [59 to 95°F]<br><90% RH, Non-Condensing  |
| <b>Power</b>                             | 110-240 VAC, 50/60 Hz, 7 A max  |
| <b>Communications</b>                    | USB   |
| <b>Dimensions</b>                        | Height: 52.4 cm [20.63 in];<br>Width: 40.6 cm [16 in];<br>Length: 50.8 cm [20 in]<br>Allow Additional 8 cm [3in]<br>Clearance for Rear Connections<br>and Cooling Airflow |
| <b>Weight</b>                            | 29 kg [63.93 lbs]   |
| <b>Fiber Optics</b>                      | Bifurcated Bundle with<br>Integrated Wand<br>Length: 1.8 m [70.5 in]  |
| <b>Performance</b>                       | Meets Proposed ISO/DIS<br>23698 Standard  |
| <b>Time Needed to Complete a Panel</b>   | 10 Hours for 10 Subjects, 8<br>Test Products  |
| <b>Exposure Level to Eyes &amp; Skin</b> | Does Not Exceed the<br>Recommended Occupational<br>Exposure Limits*   |
| <b>Remote Acquisition Control</b>        | Includes Wand, Foot Pedal and<br>Keyboard Control   |

\*According to BS EN62471:2008 Safety Standard and the American Conference of Governmental Industrial Hygienists (ACGIH) guidelines.