

## UV LABORATORY UNITS

### UV LABORATORY EQUIPMENT FOR YOUR IN-HOUSE UV TESTING

#### **Do you want to gather experience with UV?**

Test new formulations for UV inks, varnishes, silicones, resins or adhesives?

No problem!

Our UV laboratory systems have proven themselves many times over in research and development tasks. The complete assembly takes place in our company. All you need to do is connect the system and switch it on.

#### **EQUIPMENT ON A STANDARD LABORATORY UNIT:**

- The IST standard laboratory unit is equipped with one, alternatively two LED or LAMP units.
- A single lamp unit or a combination of lamp and LED is possible
- The array/lamp length is 360mm respectively 400mm.
- The distance between the LED and lamp modules to the conveyor belt can be easily adjusted.
- The standard version of the IST UV laboratory unit is equipped with URS reflector profiles.
- Interchangeable UV lamps incorporating different spectra and doping (gallium, iron, lead) ensure optimum flexibility for UV energy output.
- Standard wavelength is 395 nm. Alternative wavelength are possible on request.
- The laboratory unit is air-cooled.
- The maximum substrate passage height is 50mm.

#### **SWITCH AND CONTROL UNIT**

- The stepless power control enables a dimming range of the lamp unit from 40-100%.
- The stepless power control enables a dimming range of the LED unit from 10-100%.
- The electrical components are integrated into the frame of the conveyor unit.

#### **CONVEYOR UNIT**

- Teflon-coated fiberglass fabric conveyor belt with vacuum bed and suction fan.
- The speed of the conveyor belt is steplessly adjustable.
- The laboratory unit is equipped with castors for better mobility.

## YOU SPECIFY YOUR REQUIREMENTS – WE SUPPLY THE SOLUTION

- Depending on the specific parameters of our clients, IST designs and supplies bespoke laboratory units.
- The laboratory unit can be designed for UV curing under oxygen-reduced conditions. This requires the use of water cooling for the undershielding as well as closed conveyor belts.
- Use of IST Excimer technology for matting, bleaching & disinfection as well as cleaning & modification of surfaces.
- Use of IST W/IR drying systems: Drying with hot air and infrared
- Recipe memory: programmable system parameter settings
- LED wavelengths: 365, 385, 405



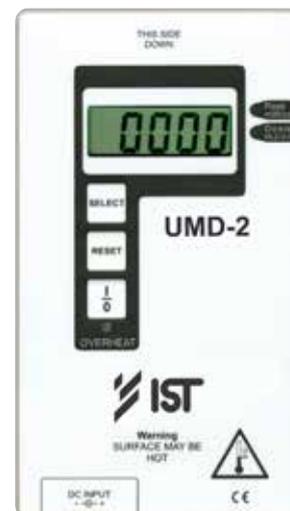
Laboratory system for oxygen-reduced operation

## YOU WISH - WE DELIVER

Tell us what you have in mind - we will design and manufacture a customised UV laboratory system for you.

### And for complete control:

IST has developed a mobile measuring instrument UMD-2 for accurate measurement of UV energy in the same position that the cure takes place. The UMD-2 is positioned on the conveyor belt and the measuring data can therefore be determined after unit has passed under the UV lamp. The UMD-2 is just one of a range of UV measuring systems developed by IST. Please ask for more information if required.



## WE HAVE THE CURE

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