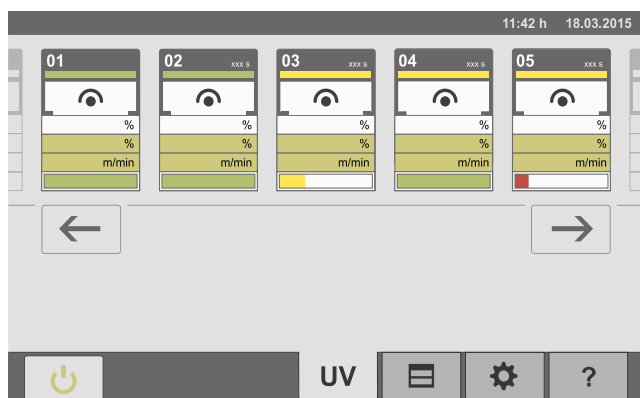


The IST UV online sensor has made it possible for the first time to measure the UV lamp output online and check it when required in the operating display. A visual traffic light signal shows when the lamp needs to be cleaned or even replaced. It is thus possible for the operator to intervene before there is any negative influence on the drying performance.

Miniaturised design

The miniaturised sensor is integrated into the UV unit and directly connected with the control system. Lamp performance is displayed in % on the system's operator display. There are no additional measurement devices or interfaces required.

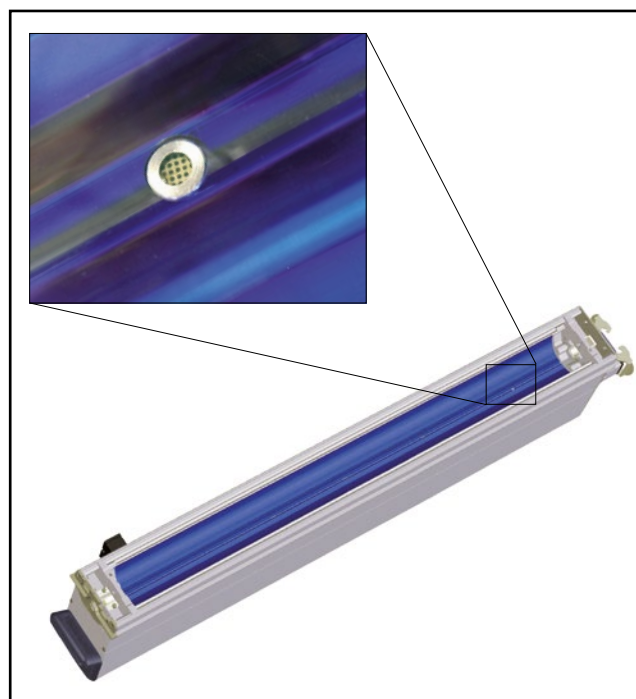


Performance in the operating display

The IST UV online sensor monitors deviation from the preset maximum lamp output. Depending on specifications, any deviation is shown in green (within tolerance) or red (outside tolerance).

Directly integrated into the UV unit

The sensor's location directly in the reflector surface enables the lamp output to be monitored. A quartz glass plate protects the sensor. Cleaning the reflector means the sensor is automatically cleaned too.



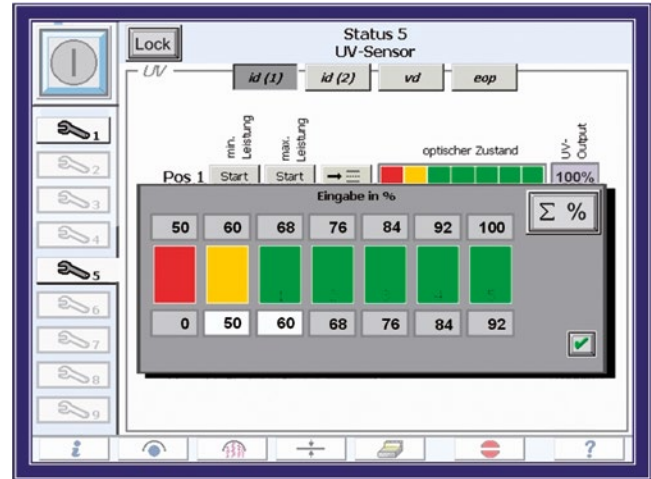
BLK® LAMPcure unit with UV online sensor

Functionality of traffic light display

100% system performance is measured against a new lamp, which provides the reference value. If the lamp gets dirty, this value decreases and is shown in percentage relative to the reference power. After the lamp has been cleaned, the value rises once more, reflecting the increased performance of the UV system.

The performance is displayed using a traffic light system with seven stages: five green stages, one yellow and one red stage.

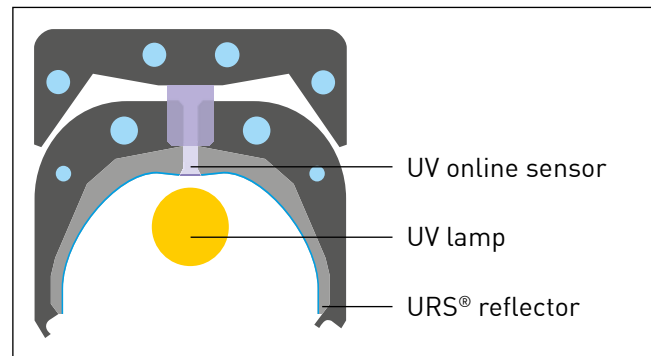
Where one stage ends and another starts is determined on the configuration screen of the operator terminal. The sensor is calibrated when new lamps are used or the position of the lamp unit is changed.



Customised configuration of the traffic light system

The IST UV online sensor at a glance:

- Available for numerous water-cooled UV units with the very latest ELC® control
- Measurement of lamp output
- Display of system performance
- Warning issued for decreasing UV output
- Independent of lamp output set
- Self-sufficient measurement system: no additional measurement devices or interfaces required
- Reliable sensor technology: stable, drift-free



The IST UV online sensor is integrated directly into the reflector surface

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