

COMPACT CASSETTE LABORATORY UNIT

The Compact Cassette Lab Unit offers a fast, simple and accurate method to measure the total UV output of any GEW UV arc or LED cassette across its entire width under standard conditions.

Interchangeable casings allow rapid analysis of UV cassettes from any GEW UV system (circa 2000 onwards) *1. The perfect quality control tool for any pressroom with multiple GEW UV equipped machines.

Step change your UV quality control:

- Detect ageing of UV lamps and make informed decisions about when to change.
- Detect aged or contaminated reflectors and quickly see the impact of good maintenance.
- Detect spot contamination on quartz windows or lamps.



Compact Cassette Laboratory Unit: 1- Cassette adaptor housing. 2- Sample carrier & access hatch. 3- Densitometer, mounting slider & guide rule. 4- GEW *Touchscreen*² HMI. 5- Control panel.



Cassette adaptor housing (removable) with interlocked door.



Measurement Method:

1. Operator brings UV cassettes from press, inserts on lab unit and starts lamp.
2. GEW UV dose strip is placed on a carrier across the whole lamp width and measured with the manually positioned densitometer before exposure (data is automatically transferred to HMI).
3. Automatic cycle is started by operator:
 - UV lamp shutters open, wait a predetermined time for output stabilisation before sample moves linearly underneath the top-mounted lamp at a fixed speed.
 - Shutters close and irradiated sample returns with a speed readout showing the exact measured sample speed for each run.
4. Operator measures the GEW UV dose strip with densitometer after exposure (data is automatically transferred to touchscreen).
5. Exact UV dose value in mJ/cm² and a normalised dose at 100m/min are calculated and reported at all measured positions across cassette.
6. Data is easily exported in a user friendly Excel format for further analysis.

The unit includes appropriate casings for the UV systems on site, an air-cooled heatsink, a fan, a GEW RHINO HMI *Touchscreen*², a chiller (only required for water-cooled lamps), and an X-Rite Basic densitometer. UV cassettes are provided by customer from the production systems to be analysed.

The sample carrier can accommodate:

- Dose strip for densitometer investigation.
- Ink samples.
- EIT radiometers:
 - Power Puck circular type can be positioned in up to nine positions as shown.
 - Power Map II can be positioned in infinite positions.

Compatibility		Most <i>E2C, ECP, E4C, GD1/2/3, HCP, NUVA2, VCP, LW1/2</i> and <i>LeoLED</i> cassettes.
Arc length range		Up to and including 60cm.
Cassette adaptor housings		Unit is supplied with removable adaptor housings to allow customer-specific cassettes to be safely mounted.
Sample/test	Method/device	UV dose strip. X-Rite basic densitometer included. EIT radiometer* ² with nine-position carrier. Power Map II* ² with carrier, freely positionable.
	Speed	Fixed. Digital readout of measured speed.
System specific parameters		Uploadable from pre-programmed USB flash drives on a system by system basis.
Cooling	Internal	Built-in fan for lamphead cooling. Air-cooled heatsink included.
	Optional	A separate chiller is required when testing water-cooled lampheads.
Power supply unit	Type	GEW RLT 8.4kW, built-in. RHINO & high power options POA.
	Supply	380-480V 50/60Hz 3~ +E.
Additional services		Compressed air supply, minimum 6 bar.
Dimensions LxWxH		1600 x 1100 x 1100 (deck height) mm.

*1 - Lamphead cassettes of any length up to 60cm. Compatible with almost all GEW lamps from the year 2000 onwards.

*2 - EIT and Power Map radiometers are not included but the included carrier accepts both types.

*3 - One adaptor housing and pre-programmed flash drive required per product, length, and lamp type.