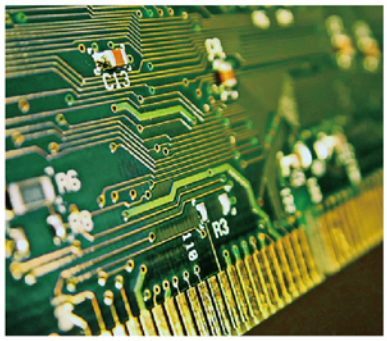
光偵測頭
Light Detector

InternationalLight TECHNOLOGIES

紫外光固化
UV Curing



Ultraviolet radiation can induce chemical and or physical changes in certain materials. This ability is used in many applications. These include hardening clear coatings on wood products, curing powdered coatings on metal products, activating adhesives and inks in the graphics industries and selectively etching circuitry in the electronics industry.

Specifications

UV Sources Used to cure	Spectral Range	Product Options	Measurement Range	Units
	270-475 nm	ILT400BAV	1 mJ to 20 J/cm²	W/cm² & J/cm²
	315-390 nm	ILT400UVA	1 mJ to 20 J/cm²	W/cm² & J/cm²
	390-475 nm	ILT400UVV	1 mJ to 20 J/cm²	W/cm² & J/cm²
	250-400 nm	ILT490	1 mJ to 20 J/cm²	W/cm² & J/cm²
Plastics	250-400 nm	IL1700, SED005/WBS320/W	$2.33e^{-9}$ to $2.33e^{+0}$ W/cm²	W/cm² & J/cm²
	250-400 nm	IL1400, SEL005/WBS320/TD	$1.82e^{-7}$ to $6.36e^{-1}$ W/cm²	W/cm² & J/cm²
Coatings	330-340 nm	IL1700, SED005/NS335/W	$1.00e^{-8}$ to $1.00e^{+1}$ W/cm²	W/cm² & J/cm²
	330-340 nm	IL1400, SEL005/NS335/TD	$2.33e^{-6}$ to $8.14e^{+0}$ W/cm²	W/cm² & J/cm²
Xenon Flash	326-401 nm	IL1700, SED033/B/QNDS2/W	$5.70e^{-8}$ to $5.70e^{+1}$ W/cm²	W/cm² & J/cm²
Low profile hi UV	250-400 nm	IL1700, SED005/WBS320/RAMP18	$8.00e^{-6}$ to $1.00e^{+1}$ W/cm²	W/cm² & J/cm²
	250-400 nm	IL1400, SEL005/WBS320/RAMP18	$4.00e^{-4}$ to $1.00e^{+1}$ W/cm²	W/cm² & J/cm²
Low profile low UV	250-400 nm	IL1700, SSD001A	$2.22e^{-7}$ to $9.00e^{-1}$ W/cm²	W/cm² & J/cm²
	250-400 nm	IL1400, SSL001A	$1.11e^{-5}$ to $9.00e^{-1}$ W/cm²	W/cm² & J/cm²
Low profile Spot-Cure	320-400 nm	IL1700, XRD050	$1.82e^{-7}$ to $1.82e^{+2}$ W/cm²	W/cm² & J/cm²
Low profile Spot-Cure	320-400 nm	IL1400, XRL050	$9.09e^{-6}$ to $3.18e^{+1}$ W/cm²	W/cm² & J/cm²
Dental curing	370-515 nm	IL1700, SED033/TBLU/T1MM	$1.30e^{-7}$ to $1.29e^{+1}$ W/cm²	W/cm² & J/cm²
	370-515 nm	IL1400, SEL033/TBLU/T1MM	$6.45e^{-6}$ to $2.26e^{+1}$ W/cm²	W/cm² & J/cm²

* All Radiometers / Photometers / Spectroradiometers are NIST Traceable.

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