Ucamco
Former Barco ETS

Product Flyer

SOFTWARE | LASER PHOTO PLOTTERS | DIRECT IMAGERS

Ledia 6 Hyper

Most cost-effective direct imaging solution on the market

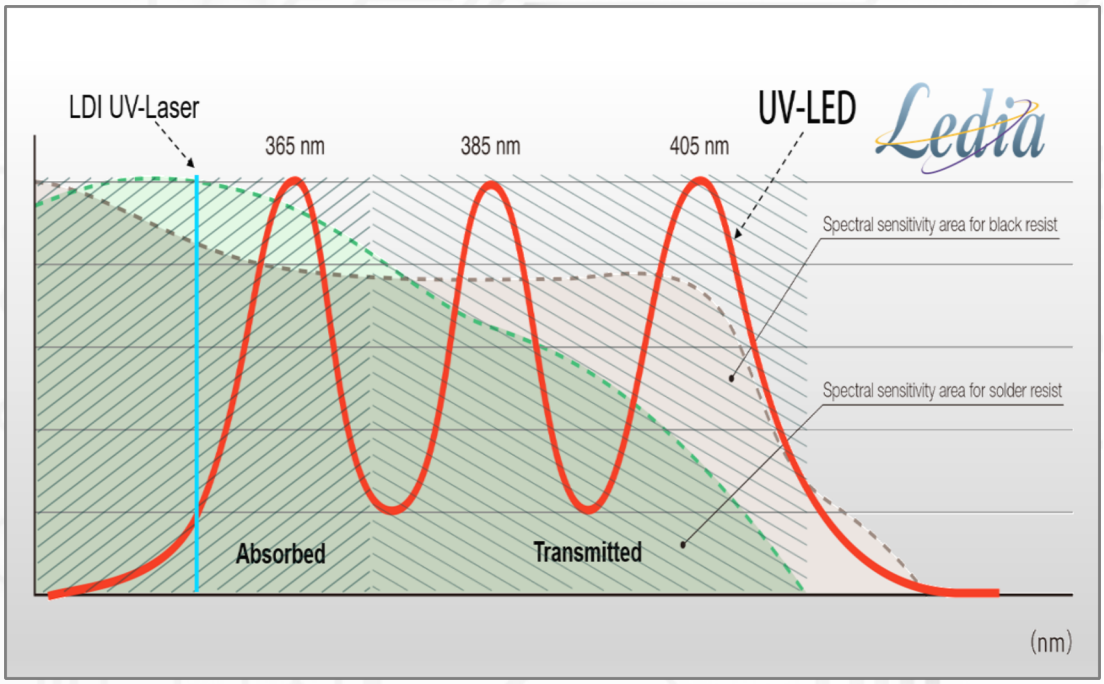
- High productivity for resist
- Highest productivity for solder mask
- New high power 3 wavelength optics
- New very fast wide-scan registration system
- Low operational cost
- Integration into any CAM environment
- Compact external automation
- Field proven, 600+ installations in production

Highest productivity for solder mask

UV-LED technology in combination with **broad multi wavelength** enables high throughput with the highest quality for your solder mask applications**.** The different wavelengths have peaks in both the absorbed and the transmitted wavelength areas of the spectrum of the solder mask inks. Due to this the polymerization happens at the top as well as the bottom of the solder mask layer, resulting in a fully polymerized layer with optimal adhesion to the substrate.

New high power 3 wavelength optics

We have applied proprietary technology to combine multiple UV-LED light wavelengths and used this as the light source in the Ledia direct imaging system. The adoption of a new 365, 385 and 405 nm three wavelength optics further expands the wave-length band for exposure and allows more energy to diffuse through the resist film from top to bottom. In addition to providing higher sensitivity, this helps to produce more satisfactory exposure results for resists, from general purpose dry film to solder with up to 30% higher throughput.



MARKETS

Rigid PCB Mfr ✓
Flex PCB Mfr ✓
Flex-Rigid PCB Mfr ✓
HDI PCB Mfr ✓
PCB Masslam Mfr ✓
PCB Equipment Mfr
PCB Traders ✓
PCB Designers
PCB Test Centers
IC Packaging ✓
Chemical Milling ✓
High Resolution Graphic Arts
Flat Panel Display

PHOTO PLOTTERS

Calibr8tor

SilverWriter

Large Format

DIRECT IMAGERS

Ledia ✓

SOFTWARE

AutoCAM

FaultStation 4

FixGenius

FlashRip

Format Converters

Geometric Correction System

Integr8tor

Mult Job Panelizer

OEM Software

SmartAOI

SmartPlate

SmartTest

Ucam CAD Review

Ucam CAM++

Ucam Chemical Milling

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PRODUCT FAMILIES

CAM
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OEM Software

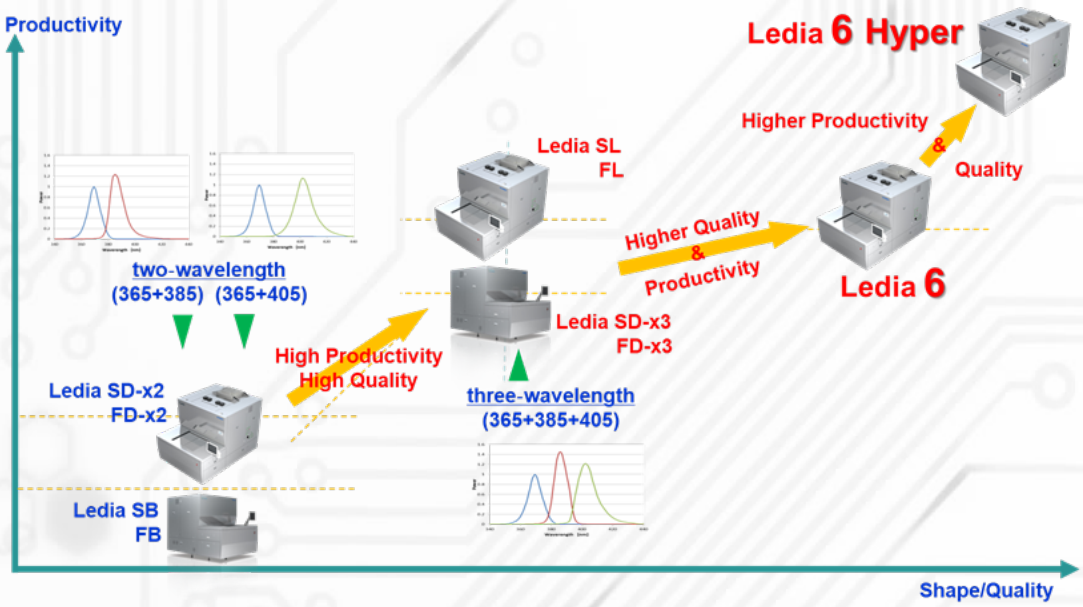
For more information on any of our products or services please contact us:
By e-mail: info@ucamco.com
On the Web: www.ucamco.com

Field proven, 600+ installations

Ledia 6 is the sixth generation of direct imaging systems manufactured by SCREEN PE Solutions Co. Ltd from Japan, who is known for its outstanding and reliable high quality products. There are already more than 600 installations in daily operation, and is as such field proven technology.

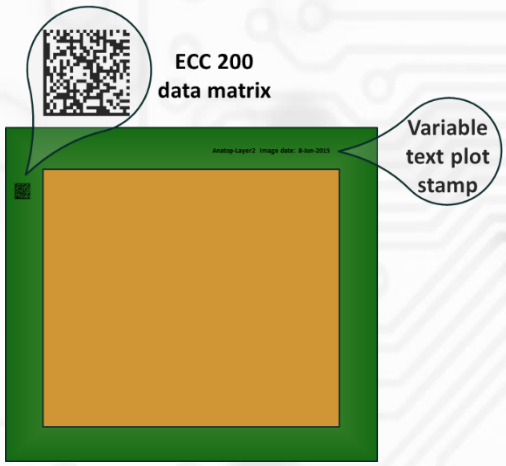
Low operational cost

The adoption of UV-LED technology as a light source results in a considerable lower consumable cost compared to conventional laser direct imaging systems. Also the LED's are only active when physically imaging panels, resulting in an even longer life time.



Sales and support by Ucamco

Sales is done by our European network of agents. Support is done by our own highly skilled local European service engineers who are known for their dedicated customer support either on-site or by means of remote-diagnostics. With our call-center and local spare part stock located in Belgium we provide support in your local language and can deliver parts within 24-hours.



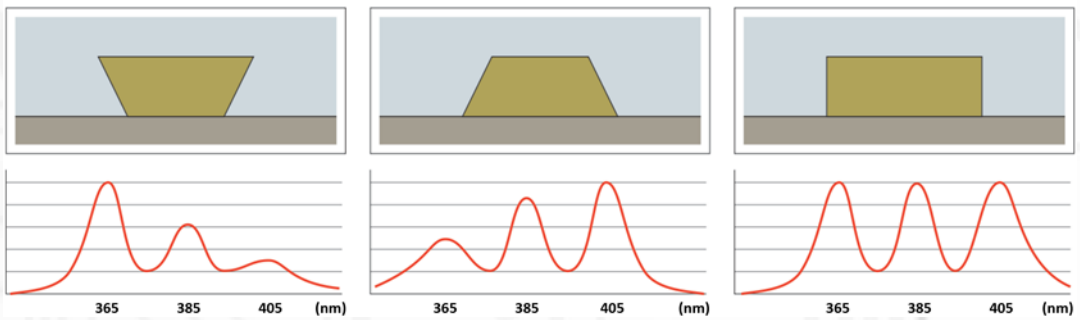
Integration into any environment

Ucamco has a long-standing cooperation with SCREEN PE Solutions Co. Ltd as developer and supplier of its direct imaging front-end system based on **UCAM** and marketed as CU-9000. As such we can guarantee a perfect integration into any CAM environment with optimum support for the various input formats.
We can also provide a fully automated integration with support for all plot stamps and serialization.

Multi wavelength for superb quality

The combination of different wavelengths allows all types of resists to be imaged using an optimal output ratio by means of wavelength modulation. Compared to a standard direct imaging system, the Ledia enables manufacturers to pursue even higher imaging quality. The achievement of world-leading product quality is also supported by many cutting-edge technologies, including a high-precision auto-focus function and alignment algorithm that compensate for various types of substrate distortion.

Effect of wavelength mix on cross-section shape



Models overview

Ledia SB

Ledia SD

Ledia FB/D

Ledia SD-L

Broad Multi-wavelength UV-LED

Standard resolution models

	Ledia6 SB-33	Ledia6 SD-53	Ledia6 SD-63	Ledia6 SL-63
Light source	UV-LED			
Wave length	350~440nm (Peaks: 365nm, 385nm, 405nm)			
Max panel size	540x661mm	610x661mm	610x661mm	648x813mm
Max exposure size	3-head: 540x661mm	5-head: 540x661mm	6-head: 610x661mm	6-head: 648x813mm
Address pitch (resolution)	2.5 µm (10.160 ppi)	2.5 µm (10.160 ppi)	2.5 µm (10.160 ppi)	2.5 µm (10.160 ppi)
Min L/S	30 um	30 um	30 um	30 um
Positioning accuracy (registration accy)	±10 um (3σ)	±9 um (3σ)	±9 um (3σ)	±10 um (3σ)
Repeatability	±5 um	±4 um	±4 um	±5 um
L/S accuracy	10% or ±2.5 um			

High resolution models

	Ledia6 FB-33	Ledia6 FD-53	Ledia6 FD-63	Ledia6 FL-63
Light source	UV-LED			
Wave length	350~440nm (Peaks: 365nm, 385nm, 405nm)			
Max panel size	540x661mm	610x661mm	610x661mm	648x813mm
Max exposure size	3-head: 512x661mm	5-head: 512x661mm	6-head: 610x661mm	6-head: 612x813mm
Address pitch (resolution)	1 µm (25.400 ppi)	1 µm (25.400 ppi)	1 µm (25.400 ppi)	1 µm (25.400 ppi)
Min L/S	15 um	12 um	12 um	15 µm
Positioning accuracy (registration accy)	±8 um (3σ)	±7 um (3σ)	±7 um (3σ)	±8 µm (3σ)
Repeatability	±5 um	±4 um	±4 um	±5 um
L/S accuracy	10% or ±2.5 um			

QR Codes for direct access to Ucamco.com

Software

Photoplotters

Direct Imagers

File Formats

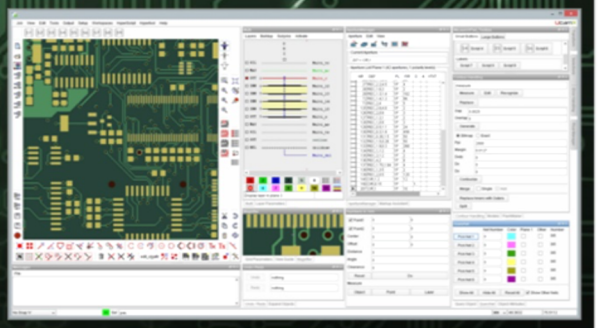
Software

UcamX

New ground-breaking CAM Software

- For Rigid, Flex and HDI PCBs
- Wait times on complex algorithms slashed by up to 80% (8-core)
- State-of-the-art intuitive user interface
- Top-notch performance by using parallel processing on today's multicore processors

Read more



64 Bit

Multi Core

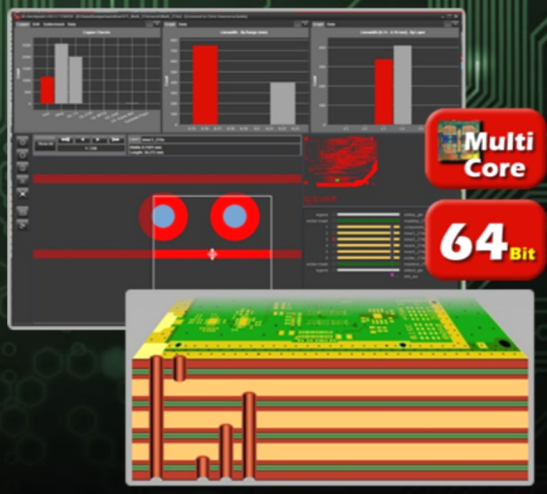
Software

Integr8tor

Automated data entry and design analysis

- Ucamco's 8th Generation Sales & Engineering Tool
- Field proven with more than 250 installations in daily production
- Seamless integration into any environment

Read more



Multi Core

64 Bit

Photoplotters

Calibr8tor & SilverWriter

- Ucamco's Photo Plotters, the world-wide benchmark for accuracy, throughput and reliability
- Field proven with more than 450 installations in daily production
- Seamless integration into any CAM System

Read more

New

Field upgradable with new high resolution Nano AF100 Opto Electronics

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