

UMS10W

UMS05W

Permanent UV Marking for Sensitive Substrates

10 W

UMS10W · LASER OUTPUT

5 W

UMS05W · LASER OUTPUT



Engineered for the demands of high-speed packaging, the UMS10W and UMS05W deliver permanent, high-contrast marks on sensitive substrates without the cost and downtime of consumables. From food to pharmaceuticals, they give reliable traceability around the clock.

KEY BENEFITS

BUILT FOR DEMANDING ENVIRONMENTS

An IP65-rated laser source handles dust and humidity in the harshest production zones, and a new intelligent control algorithm keeps the mark consistent through 24/7, high-intensity production.

STREAMLINED INTEGRATION

A compact, integrated design fits a wide range of production lines, with multiple installation directions and working distances supported. The user-friendly interface cuts training time and operator error.

PRECISION ON SENSITIVE SUBSTRATES

High-definition, permanent marks on HDPE, LDPE and mono film without pin-holing or thermal damage. Galvanometer scanning at up to 12 000 mm/s gives crisp, scannable text, logos, DataMatrix and QR codes.

LOWER TOTAL COST OF OWNERSHIP

Laser source optimisation limits degradation and extends MTBF. Built-in power self-testing and one-click optimisation prevent unplanned stops, and with no consumables the process stays clean and energy-efficient.

355 nm

UV WAVELENGTH

12 000 mm/s

MAX SCAN SPEED (UMS10W)

IP65

LASER SOURCE PROTECTION

CONFIGURATION & HANDLING

- ◆ Compact, integrated print unit with touch-screen operator UI
- ◆ Beam can be oriented in any direction
- ◆ Four marking fields, from 110 x 110 mm up to 400 x 400 mm
- ◆ Water-chiller cooled for stable output in 24/7 production
- ◆ IP65-rated laser source handles dust and humidity
- ◆ Built-in power self-test and one-click optimisation



TECHNICAL PARAMETERS

LASER & MARKING	
Laser Source	UV laser (Nd:YVO4) · 355 nm wavelength
Output Power	UMS10W: 10 W · UMS05W: 5 W
Scan Speed	UMS10W: up to 12 000 mm/s · UMS05W: up to 8 000 mm/s
Scanning Method	High-speed galvanometer scanning
Marking Range / WD	110 x 110 mm (WD 213 mm) · 175 x 175 mm (WD 300 mm) · 250 x 250 mm (WD 430 mm) · 400 x 400 mm (WD 580 mm)
Beam Orientation	All directions · multiple working distances supported
Applicable Materials	Rigid plastics (HDPE, LDPE), mono film, labels and cartons
Laser Protection	IP65-rated laser source
Fonts	Single-line and double-line fonts · dot-matrix font
CONTROL, POWER & MACHINE	
Codes & Graphics	Code 39, Code 25, Code 128, EAN-13 etc. · PDF417, QR Code, DataMatrix (GS1) · DXF/PLT vector images
Marking Status	Operating, ready, error
Interfaces & I/O	USB 2.0, Ethernet · 2 inputs / 3 outputs
Operation	24/7 operation · built-in power self-test and one-click optimisation
Cooling	Water chiller
Power	220–240 VAC (100–120 VAC optional), 50/60 Hz · consumption below 600 W
Operating Environment	5 °C to 40 °C · 20 % to 80 % relative humidity, non-condensing
Storage Environment	–20 °C to 50 °C · 20 % to 80 % relative humidity, non-condensing
Weight	Print unit 15.5 kg · UI 0.55 kg · water chiller 20 kg
Dimensions	Print unit 625 x 190 x 144 mm · UI 252 x 168 x 36 mm · water chiller 580 x 290 x 520 mm

APPLICATIONS & PRINT SAMPLES

Specifications are indicative and subject to change without notice.



HDPE bottles



DataMatrix on caps



Date codes on closures

SUITABLE SUBSTRATES

HDPE & LDPE rigid plastics · Mono film · Labels · Cartons · Caps & closures