



**Transition your TTO to UV Technology
for permanent codes with no consumables**



ADVANCED UV LASER MARKING TECHNOLOGY

Squid Ink's SQ-UVT Series UV Laser Marking system creates permanent marking of text, time, date, bar codes and more on flexible film packaging. Designed to replace traditional thermal transfer overprint (TTO) systems, Squid Ink's SQ-UVT Laser System changes the surface layer of packaging film for permanent, high-quality codes with no damage to the substrate. Using a 355nm cold-coding laser beam, the SQ-UVT delivers crisp, precise marks with virtually no heat stress—protecting packaging materials from damage.

ECO-FRIENDLY, ZERO CONSUMABLES

The SQ-UVT eliminates the need for inks, ribbons, or replacement printheads—cutting production costs, consumable storage, and downtime. No ribbon waste, no changeovers, and no stoppages from ribbon breaks or wrinkles. And with no hazardous byproducts, the UV laser is both environmentally friendly and energy efficient.

CLEAR, PERMANENT CODES

UV laser technology delivers permanent marks and ensures codes that won't rub off, smear, or fade. Unlike TTO, where codes can chip or wear away, SQ-UVT provides clear, durable product identification every time with no damage to the substrate.

COMPACT, EASY TO USE DESIGN

Sized similarly to existing TTO equipment, the SQ-UVT can often mount to your current bracketry. Combined with Squid Ink's intuitive UV laser software, the system is simple to install, operate, and maintain.

APPLICATION VERSATILITY

- Permanent coding of text, time and date, bar codes, serial numbering and more
- Quick and easy installation for both continuous or intermittent packaging machinery
- Compact marking head design easily fits into packaging equipment where space is limited
- Can be integrated in production lines at speeds up to 620 ft/min (190m/min)

RELIABLE AND ECONOMICAL

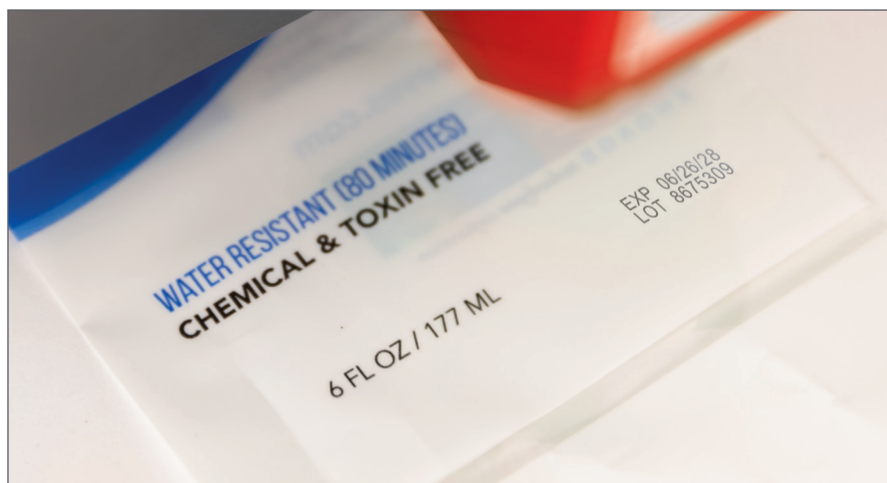
- No ribbons or consumables and near zero maintenance for lower cost of ownership
- Clean and eco-friendly coding system features low energy consumption
- Rugged cast aluminum controller body
- IP54 rating ensures maximum reliability and uptime in demanding applications
- Integrated key switch and interlock relay for increased safety on the production floor

EASY TO START, SIMPLE TO RUN

- Easy to use software with smart touchscreen panel
- Removable 10" touchscreen controller for remote system programming where space is limited
- Intuitive system includes focus finder and code area preview window on product during setup; enables initial laser marking setup within minutes
- Easily configurable in a variety of angles with optional mobile stand
- Optional fume extraction systems available that connect directly to SQ-Laser systems



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1) Sized similarly to existing TTO equipment, SQ-UVT can often mount to your current bracketry.

2) Transition your TTO to UV Technology for permanent codes with no consumables.

3) Easy to use 10" touchscreen controller mounts to cabinet for system configuration and message programming.

4) An integrated key switch and interlock relay is included for safety on the production floor.

SYSTEM SPECIFICATIONS

- **Laser Type** - 5W UV Laser source
- **Laser Wavelength** - 355nm
- **Laser Galvanometer** - High-precision 2-dimensional scanning method
- **Controller and Operating System** - Removable 10" touchscreen controller running Linux®
- **Cooling Method** - Water-cooled
- **Power Consumption** - <750W
- **Marking Area** - 3.94" x 3.94" (100mm X 100mm)
- **Reflector Size** - 10mm
- **Production Line Speed** - 0 - 620 ft/min (190m/min); varies according to substrate and message
- **Marking Speed** - Up to 1800mm/s
- **Character Size** - Adjustable in marking area, no character line limits within marking area
- **Marking Line Number** - Code Rotation - 0 to 360°
- **Drawing Types** - Dot matrix and vector
- **Positioning Method** - Blue light positioning and auto focusing for simple setup
- **Software Features** - Counter, lot counter shift code, time and date, expiration date, 2D and linear bar codes
- **Bar Code Symbolologies** - All common symbolologies including GS1 and 2D codes
- **Image Formats** - bmp, dxf, jpg, plt, png
- **Operating Languages** - English, Chinese, German, Spanish, French, Italian, Japanese, Korean, Portuguese, Hindi, Russian, Turkish, Arabic, Persian
- **Safety Features** - Integrated key switch and interlock relay included for safety on the production floor; customer provided shielding necessary to prevent eye or skin exposure
- **Interfaces** - RS-232C, USB2.0, Ethernet, I/O
- **Machine Material** - Anodized aluminum (marking head) and stainless steel (control unit)
- **Laser Head Dimensions (including connector)** - 11.3" (286mm) x 5.6" (142mm) x 7.1" (180mm)

- **Electrical Requirements** - 90 - 240 VAC, 50/60Hz
- **Controller Cabinet Dimension** - 21.81" (554mm) x 11.61" (296mm) x 36.14" (918mm)
- **Operating Environment** - 41°F - 104°F (5°C - 40°C)
- **Humidity Range** - 10 - 90% relative humidity, non-condensing
- **Machine Weight** - 123.5 lbs. (56kg)
- **Ingress Protection Rating** - IP54

OPTIONAL ACCESSORIES

- **Print Trigger** - Optical, fiber optic, ultrasonic, laser, metal proximity, capacitive proximity
- **Encoder** - For operation with variable speeds
- **Laser Fume Extraction Systems** - SQ-LFX for the proper extraction of laser application fumes
- **Installation and Training** - On-site installation and training available



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