Laser Marking System

Videojet C7710A UV Laser

High-quality, high-contrast, permanent marking

VIDEOJET

Durable, permanent codes and simple integration

Innovative laser marking on cutting-edge materials

The Videojet C7710A UV laser system is engineered to apply crisp alphanumeric and other typical codes at high speeds on a diverse array of plastic, film, and foil materials. The C7710A works flawlessly with new, more sustainable packaging types, such as mono layer options, preserving the integrity of the product, while still delivering crisp, clear codes. It performs on a wide range of substrates and various colors, delivering exceptional codes on materials that can be difficult to mark with other laser technologies. These high-contrast, permanent marks help enable product lifetime track and trace security for consumer-packaged goods, pharmaceutical, medical, and cosmetic manufacturers.

Simple, flexible integration

The C7710A is a 5 Watt UV laser marking system offering increased speed and code content compared to lower wattage systems. The footprint of the system offers easier integration into tight production lines, reducing costs and the need to re-design the line to accommodate a UV laser. A selection of beam turning units (BTUs) makes the C7710A even more flexible, allowing it to fit into small spaces that would be too tight for other lasers to manage.

UV laser code on flexible film

Laser lens

Touchscreen user interface

Secure your brand's future with UV laser marking

Outstanding performance with zero consumables

The C7710A delivers consistent performance without the need for ongoing maintenance or fluids replenishment. With no consumables to replace during day-to-day operation, interactions with the system are minimized, and your lines keep running longer. The C7710A is also an air-cooled system that doesn't require plant air, saving time and money.

Imaging head

UV laser code on plastic

High-contrast, permanent marks for tracking and security

Packaging operations that require high-quality, traceable codes for camera readability can rely on the Videojet C7710A UV laser to help meet industry regulatory requirements. Direct marking of permanent codes helps prevent the risk of counterfeiting or manipulation to the package coding, and the codes are resistant to abrasives, chemicals and sterilization processes.

Experience a new level of coding precision and efficiency with the C7710A UV laser marking system. The transition is easy, the integration is seamless, and the results are undeniable.

Designed for **increased productivity**

The Videojet C7710A UV laser marking system offers features that help simplify production line integration, deliver increased uptime and productivity, and enhance code quality assurance.

Umbilical

- Quick connector
- Flexible integration
- 4m cable easily to route

Communication

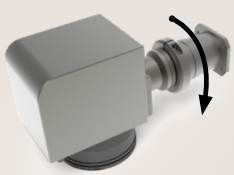
- Custom I/O connection
- Ethernet and RS232 data communication

Focus Finder

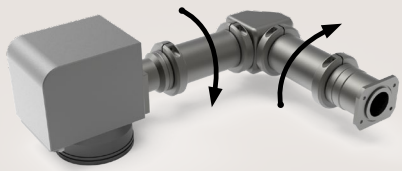
- Makes installation and operation simple, fast, and accurate

Beam Turning Units (BTU)

- BUS is adjustable from 0 to 360 in the X direction
- BTU is adjustable from 0 to 360 in the XY direction



BUS



BTU

Uptime advantage

- A variety of warning signs
- Signal light/beacon

Self-cleaning system

- Laser source built-in self-cleaning system helps ensure stable operations in challenging environments
- Compression pump with special filter removes fine dust from optical system

Alarm function

- Comprehensive user-friendly alarm indications

Speed

- UV laser marking technology
- Fast laser processing speed is fast at up to 1,200 characters per second, helping improve production efficiency
- Maximum marking range up to 390 x 390mm for increased code content

Software Features

- Variety of fonts
- Non crossing fonts
- 2D codes available (QR, DataMatrix, Dotcode)

Space optimization, energy saving, environmental protection

- Air-cooled integrated design offers small footprint and reduced energy consumption

Preheat capability

- Laser preheating time can be customized for the environment

High quality

- Detailed and high-contrast coding with 355 nm with a small beam diameter
- Stellar marking onto plastics without solvents or additives

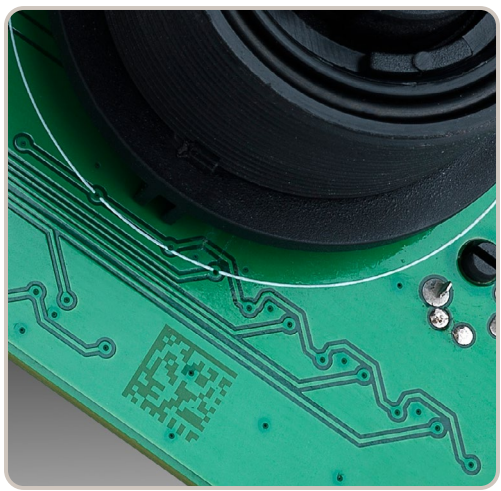
Precise and permanent marking on a broad range of product and packaging materials

With high precision, high efficiency, low noise and low energy consumption, Videojet UV laser marking systems provide permanent, high-quality codes that help enable manufactures to utilize track and trace throughout the product life cycle.

Metal

Plastic

Glass



Resin

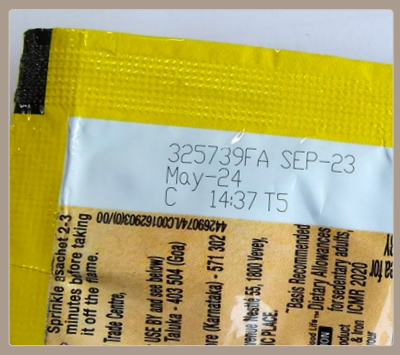
Plastic

Coated cardboard

Glass

Tyvek

Plastic



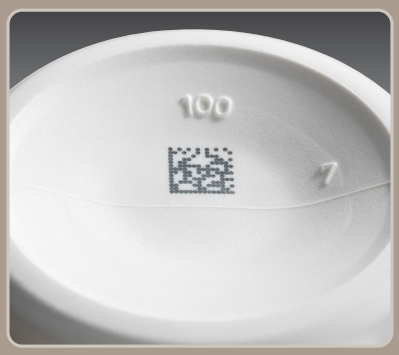
Flexible film

Metal

Plastic

Plastic

Plastic



Plastic

Paper

Videojet® C7710A

UV Laser Marking System

Marking fields
100x100 mm - 800mmx800mm

Marking heads
Flat-focus lenses: F160 / F254 / F380 / F525 / F750 / F840 / F1090

Marking speed
Up to 1200 characters per second

Laser source
Pulsed Nd: YVO
Power class 5-Watt
Central emission wavelength: 355nm

Beam deflection
Optional: BTU, BUS

Beam orientation
90-degree

Operator interface
Windows®-based software for fly marking control systems

Language capabilities
Chinese, English, Spanish, French, German, Thai, Italian, Hindi, Vietnamese, Japanese, Korean, Portuguese, Brazilian Portuguese, Burmese, Indonesian, Turkish, Arabic, Malaysian, Hungarian, Dutch, Polish

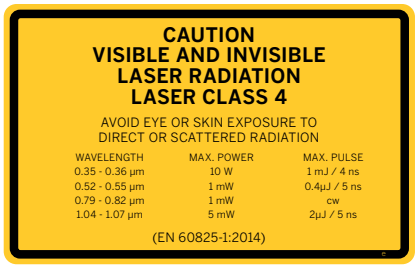
Communication
Ethernet, TCP/IP, RS232, digital I/O, encoder and product detector trigger inputs

Integration
Integration via Ethernet and RS232 interfaces

Electrical requirements
Electrical control box: Voltage: 100-240 VAC, 50 / 60 Hz

Power consumption
300 W, SCCR: 63A

Cooling system
Air cooled



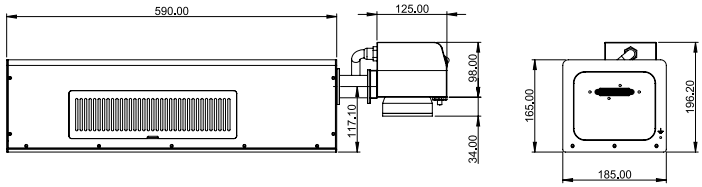
Environment
Temperature: 5-40°C
Humidity: 10-90 per cent (non-condensing)

Sealing and safety standards
Power supply unit: IP54
Marking unit: IP54
LASER CLASS 4 product (acc. to IEC / EN 60825-1:2014)

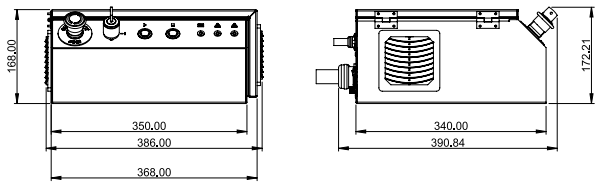
Approximate weight
Power supply unit: 19 kg, touch screen: 4.3 kg
Marking unit: 19 kg, excluding flat-field focusing lens

Applicable certifications
EMC/60825/62368/60204/ROHS

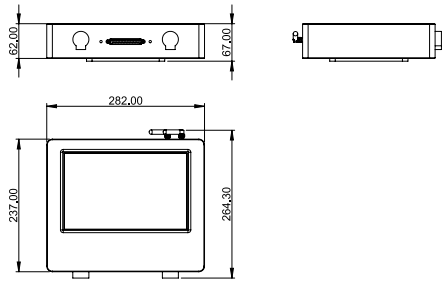
Marking unit dimensions



Supply cabinet dimensions



User interface dimensions



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