



Laser Marking System

Videojet C7710A UV Laser

High-quality, high-contrast, permanent marking



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.

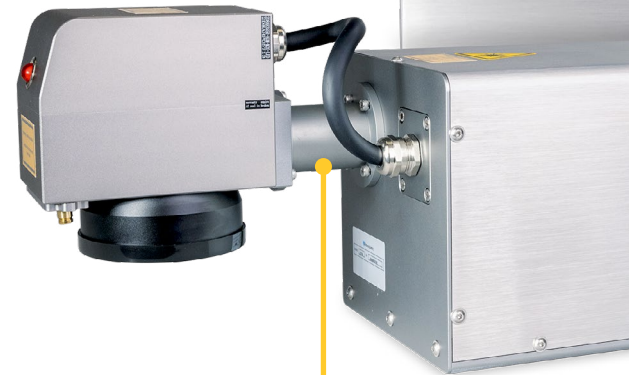
Umbilical

- 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

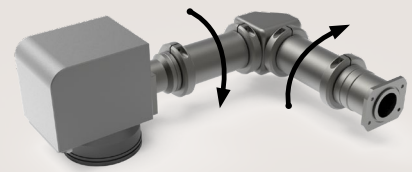


Beam Turning Units (BTU)

- 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.



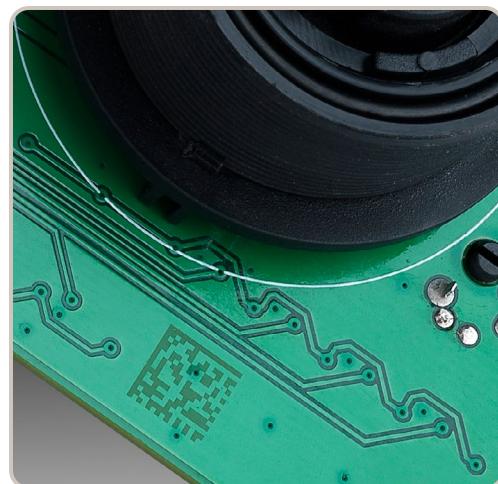
Metal



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

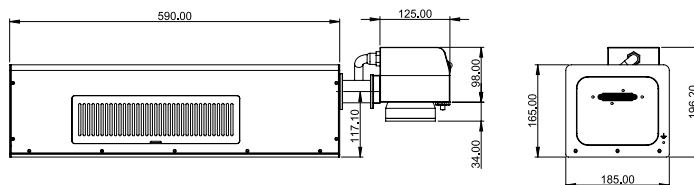
Power supply unit: 19 kg, touch screen: 4.3 kg

Marking unit: 19 kg, excluding flat-field focusing lens

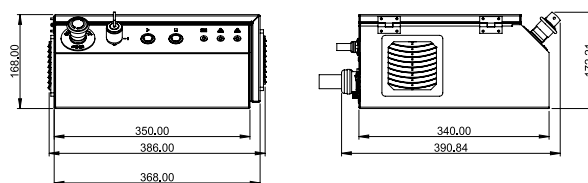
Applicable certifications

EMC/60825/62368/60204/ROHS

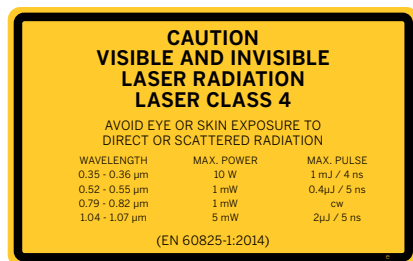
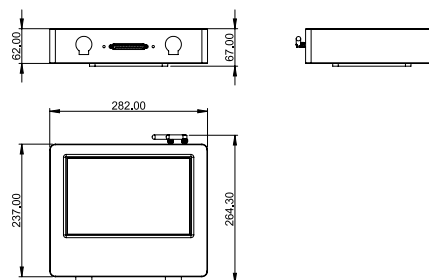
Marking unit dimensions



Supply cabinet dimensions



User interface dimensions



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