

## ***Faster marking, complex marks and easier integration in a 10-Watt laser marker***

- ***Superior Speed and Quality: consistently high quality, permanent marking with no degradation of print at high line speeds***
- ***Complex Marks: multi-line alphanumeric codes, foreign language fonts, graphics, symbols and machine-readable codes***
- ***Easy Integration: compact design, a variety of lenses and beam expander with flexible user interface software***

***With a marking speed of up to 1,200 characters/second and line speeds up to 10 meters/second (depending on the application), the Videojet 3120 is the fastest laser marker in its class. High quality, multi-line codes are consistently produced by the Videojet 3120, even on high volume production lines.***

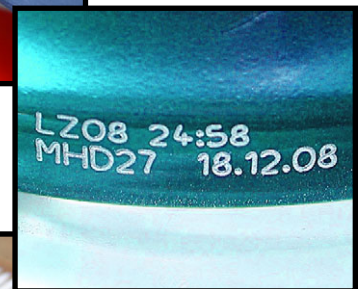
***The Videojet 3120 marks complex, multi-line alphanumeric messages, foreign language fonts, graphics, symbols and machine-readable codes. Information such as expiration and manufacture dates, ticket numbers, line codes, ID matrix and bar codes, serial numbers, batch and lot codes or content and weight specifications are quickly and easily marked by the Videojet 3120.***

***Additionally, the compact design and flexible standard components ensure fast and simple integration. To fit into tight spaces, the Videojet 3120's head can be positioned for even the most intricate marking jobs, and is capable of 0-degree (straight-out) or 90-degree laser output.***

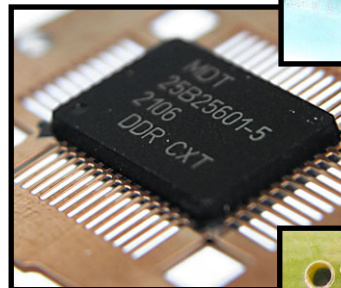
***The Videojet 3120 can mark on a wide range of materials, including special pharmaceutical boxes, paper, cardboard and carton packages, PET containers, electronic/semiconductor devices and automotive parts, and extruded products such as sealings, profiles and tubes.***



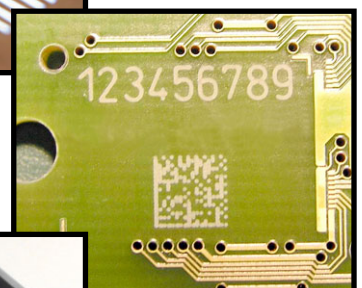
Coated Cardboard



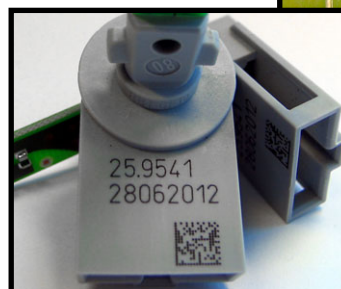
PET Bottle



Electronics

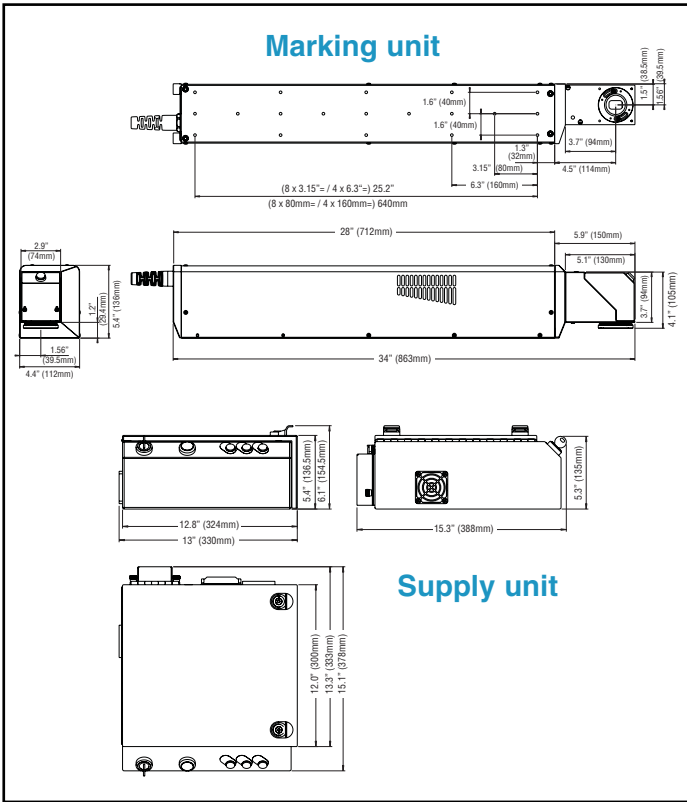


Electronics



Plastic Part

## Dimensions



## Specifications

### LASER

#### Laser Tube

- Sealed CO2 laser, power class 10W

#### Beam Deflection

- Digital high-speed galvanometer scanner

#### Focusing

- Precision optics: standard focal lengths 64/ 95/ 127/ 190/ 254 mm (2.5/ 3.75/ 5.0/ 7.5/ 10.0 inches); optional focal lengths 63.5/ 85/ 100/ 150/ 200/ 300/ 351/ 400 mm (2.50/ 3.35/ 3.94/ 5.9/ 7.87/ 11.8/ 13.8/ 15.75 inches)

### HANDHELD CONTROLLER

- Graphic remote control via Ethernet for flexible operation
- Preparation of marking jobs, marking data entry
- System configuration
- Status and alarm display
- Excellent legibility of graphic display; fast, intuitive operation

### SOFTWARE

#### Smart Graph

- Graphics-orientated user interface under Windows® 2000/XP for the intuitive and fast preparation of complete marking jobs on PCs
- System configuration
- Text / data / graphics / parameter editor
- Languages: English, Arabic, Chinese, German, Japanese, Russian and many others; freely selectable
- Easy access to standard CAD and graphics programs with import functions for the most important file formats
- WYSIWYG
- Various password-protected security levels

#### Smart Graph Com

- ActiveX software interface for integration into operating software

#### Communication

- Ethernet, TCP/IP; optionally RS232
- Inputs for encoders and product detector triggers
- 3 inputs/ 7 outputs for start/ stop signals, machine/ operator interlocks, alarm outputs; with additional I/Os extensible
- Customer-specific solutions

### INTEGRATION

- Direct integration into complex production lines via scripting interface
- Integration via Ethernet (TCP and UDP) and RS232 interface
- Flexible beam delivery options (beam unit/ beam turning unit)

### SUPPLY

#### Electrical Requirements

- 100-240 VAC (Autorange), ~50/60Hz, 1PH, 0.40kW

#### Cooling System

- Air cooled

#### Environment

- Temperature 5-40°C (40-105°F)
- Humidity 10%-90%, non-condensing

#### Sealing and Safety Standards

- IP54S, optional IP65; LASER CLASS 4 product

#### Weight

- Approx. 26kg/57lbs.: supply unit ~11.5kg/25lbs., marking unit ~15kg/33lbs. (laser head 13kg/29lbs, standard marking head 1.4kg/3lbs.; highest definition marking head 2.2kg/5lbs.)



according to DIN EN 60825-1:10/2003

INVISIBLE LASER RADIATION  
AVOID EYE OR SKIN EXPOSURE  
TO DIRECT OR SCATTERED  
RADIATION  
LASER CLASS 4



CE -conform  
RoHS-conform



### MARKING FEATURES

#### Marking Speed

- Up to 1,200 characters per second (depending on the application)

#### Line Speed

- Up to 10 meters per second (1,800 feet per minute, depending on the application)

#### Marking Field

- Stationary products: approx. 44x44 mm to 177x177 mm (standard) or 226x325mm2 (optional); unlimited number of lines
- Moving products: height approx. 44 to 177 (standard) or 325mm (optional); length does not depend on width of marking field; unlimited number of lines

#### Marking Formats

- Standard fonts (Windows® TrueType®/TTF; PostScript®/ PFA, PFB; Open Type®/ OTF)
- Individual fonts, such as high-speed or OCR
- Machine-readable codes: ID-Matrix (ECC100, 140, 200: 10x10 to 144x144 for square formats, 8x18 to 16x48 for non-square formats; ECC plain [free config. ECC code]; bar codes(BC25/25i/39/39E/128; EAN13/128; UPC\_A; RSS14 truncated/ -stacked [CCA/B]/ -stacked omnidirectional/-limited [CCA/B]/ expanded)
- Graphics and graphic components, logos, symbols, etc.
- Linear, circular, angular text marking; rotation, reflection, expansion, compression of marking content
- Sequence and serial numbering
- Automatic date, layer and time coding; real-time clock
- On-line coding of individual data (weight, contents, etc.)



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