

Videojet® Allprint DN50A

Nd:YAG Laser Marking System

Laser.

Ink Jet.

Thermal Transfer.

Labelers.

Track & Trace.

Supplies.

Parts & Service.

The ALLPRINT DN50A meets the most stringent requirements whether throughput, flexibility, user-friendliness, reliability or economy is critical. This 50-Watt YAG laser is well-suited for a variety of applications, including metal, aluminum, plastic and PVC materials.

High speed marking

- Up to 1,300 characters/second and up to 3,000 feet/minute
- Efficient management of marking jobs with text, machine-readable codes, graphics or individual data

Superior laser beam quality

- Allows for high quality marking on a wide range of applications
- High resolution and superior marking quality for engraving, color change, material removal or temper/black marking



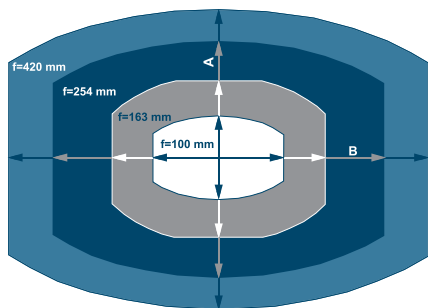
Enhanced flexibility and modularity

- Easy integration into the production line
- Flexible user interface enables user-friendly and efficient management of marking jobs with text, machine-readable codes, graphics or individual data



Marking Fields (see graphic for marking field sizes)

Lens focal length	f=100mm	f=163mm	f=254mm	f=420mm
max. A/mm	75.8	142.2	215.5	361.5
max. B/mm	118.7	193.5	301.5	498.5



Marking Features

Marking Speed

- Up to 1,300 characters/sec. (application dependent)

Line Speed

- Up to 50 feet/sec. (15 m/sec.) (application dependent)

Marking Field (see graphic)

- Lens options

Marking Formats

- Standard fonts (Windows® TrueType®/TTF; PostScript®/ PFA, PFB; Open Type®/ OTF)
- Individual and dot-matrix 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] QR-Code); barcodes (BC25/25i/39/39E/93/128; EAN13/128; UPC_A; RSS14 TR/ST/STC; RSS LIM/EXP)
- Graphics and graphic components, logos, symbols, etc. (DXF, JPG, AI, etc.)
- Linear, circular, angular text marking; rotation, reflection, expansion, compression of marking contents
- Sequential and batch numbering
- Automatic date, layer and time coding, real-time clock
- On-line coding of individual data (weight, contents, etc.)

Laser

Laser Source

- Diode-pumped Nd:YAG laser, power class 50 W, cw or pulsed (3,000-65,000 Hz) 1.064 µm

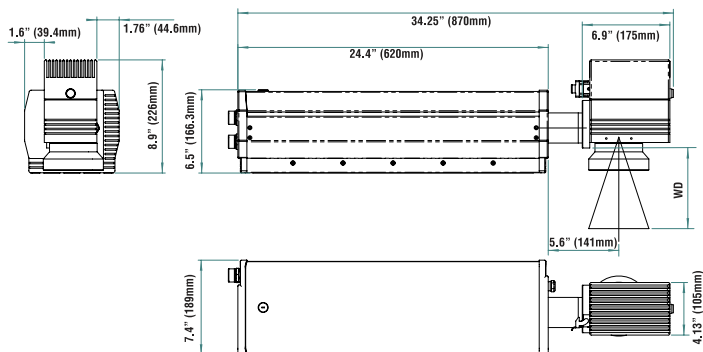
Laser beam deflection

- Digital high-speed galvanometer scanner

Focusing

- Precision optics: available focal lengths f=100/163/254/420 mm

Dimensions



Operations

- Several options: PC, handheld control unit or software interface
- Real time operation concept
- Storage: RAM 128MB, Multi Media Card minimum 512MB

Handheld (optional)

- 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 (optional)

- Graphical user interface under Windows® XP/Vista for intuitive and quick generation of complete marking jobs on PCs
- System configuration
- Text/data/graphics/parameter editor
- Configurable in German, English, other languages optional
- Easy access to standard CAD and graphics programs by convenient import functions
- WYSIWYG
- Various password-protected security levels

Smart Graph Com

- ActiveX software interface for integration into operation software

Communication

- Ethernet (TCP/IP, 100 Mbit LAN), RS232
- Inputs for encoders, bar code readers and product detectors
- 8 bit digital input for digital job selection, start/stop signals, machine/operator interlocks, alarm outputs
- Customer-specific solutions

Integration

- Direct integration into complex production lines via the laser's scripting interface
- Integration via Ethernet and RS232 interface
- Easy integration via flexible umbilical, optional 6/10/15 m (19.7/32.8/49.2 feet)

Utilities

Electricity/Cooling

- 230V, 1PH, 48/62 Hz, 2kVA (incl. cooling)
- Internal water/air heat exchanger

Environment

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

Sealing and Safety Standards

- Supply Unit: IP22; Marking Head: IP44; Laser Head: IP42; LASER CLASS 4

Weight

- Supply unit: 288 lbs (131 kg)
- Marking unit: 40 lbs (20 kg)



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