Videojet® Allprint LN100A

Nd:YAG Laser Marking System

Laser.

Ink Jet.

Thermal Transfer.

Labelers.

Track & Trace.

Supplies.

Parts & Service.

The ALLPRINT LN100A meets the most stringent requirements whether throughput, flexibility, user-friendliness, reliability or economy is critical. When maximum power is required at an economic price, the LN100A is the ideal system. This 100-Watt YAG laser is well-suited for a variety of applications, including coated aluminum, PVC, rubber and metal surfaces.

High speed marking

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

Superior laser beam quality

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

## Enhanced flexibility and modularity

- Solid-state system is designed for both stand-alone systems and easy integration into existing lines
- Can be completely controlled by a computer and is also well-suited for use in fully-automated production environments

VIDEOJET

Uptime Peace of Mind®

Videojet® Allprint LN100A
Nd:YAG Laser Marking System

Laser. Ink Jet. Thermal Transfer. Labelers. Track & Trace. Supplies. Parts & Service.

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
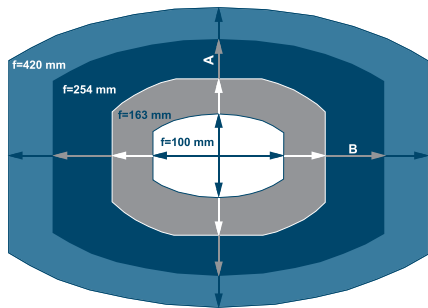
Marking Features

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
• Lamp-pumped Nd:YAG laser, power class 100 W, cw or pulsed (3,000-65,000 Hz) 1.064 µm
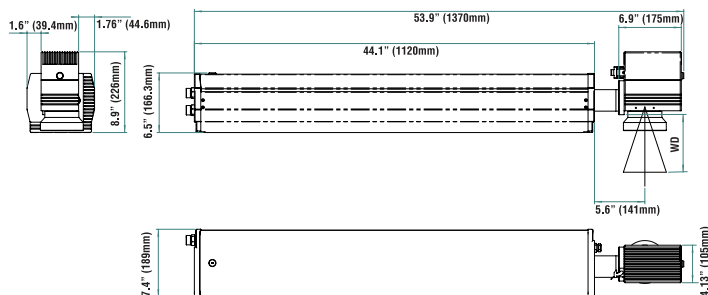
Laser beam deflection
• Digital high-speed galvanometer scanner

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

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 English, German, 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
• 3/N/PE 400V 50/60 Hz, <7kVA (incl. cooling)
• Internal water/water heat exchanger
• Connection for external water/air heat exchanger optional

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: 271 lbs (123 kg)
• Marking unit: 63 lbs (29 kg)

Dimensions

VIDEOJET
Uptime Peace of Mind®

800-843-3610
www.videojet.com / info@videojet.com

Videojet Technologies Inc. / 1500 Mittel Blvd.
Wood Dale IL 60191-1073 / USA
Phone 630-860-7300 **Fax** 800-582-1343

Part No. SL000448
LN100A-0710
Printed in U.S.A.