

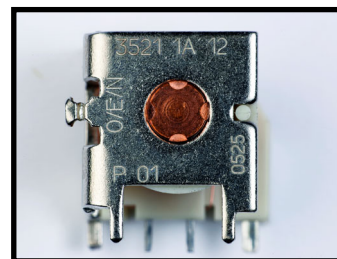
### Clean, clear marking from a 50-watt Nd:YAG laser

- High speed marking up to 1,300 characters/second and up to 3,000 feet/minute
- Superior laser beam quality allows for high quality marking on a wide range of applications
- Enhanced flexibility and modularity provide easy integration into the production line

The ALLPRINT DN50A meets the most stringent requirements whether throughput, flexibility, user-friendliness, reliability or economy is the prime criterion for your marking application. No matter what has to be marked: electronic housings, keyboards, day/ night design, identification plates, tools, surgical instruments, fuel-injection nozzles, ball bearings, crankshafts/ camshafts, fittings, stamps or injection molds, etc., the ALLPRINT DN50A delivers clean, clear and permanent marks.

The solid-state system is designed for both stand-alone systems and easy integration into lines. It is capable of being completely controlled by a computer and is ideal for use in fully automated production. The flexible user interface enables user-friendly and efficient management of marking jobs with text, machine-readable codes, graphics or individual data.

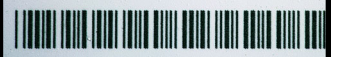
Whether as an engraving, color change, material removal or temper/ black marking – ALLPRINT DN50A delivers high resolution and brilliant marking quality.



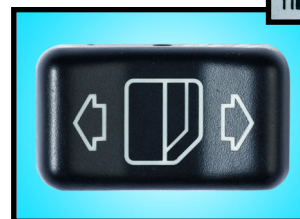
Automotive and Metalworking:  
Plain Metal

8986 0106 0202 9041

5751 4692



Cards and Security:  
PVC



Automotive, Telecommunications:  
Plastics

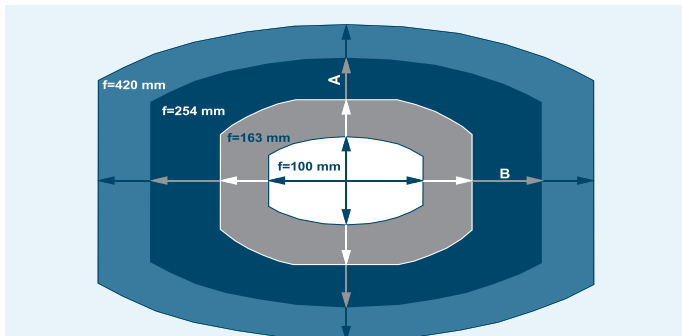
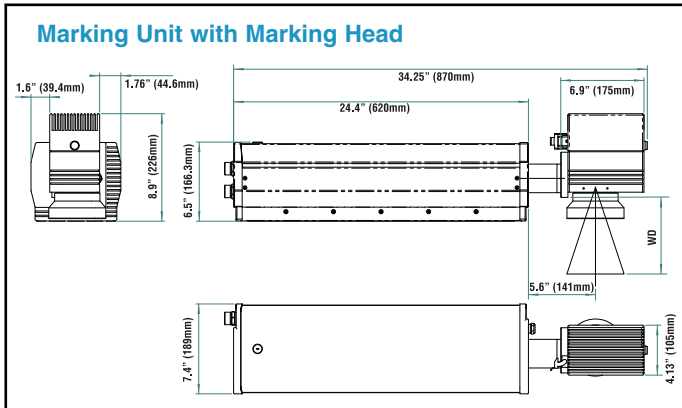


Medical and Pharmaceutical:  
Aluminum



Building Services:  
Plastics

## Dimensions



Marking field and lens options

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.)

## Specifications

### 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

### OPERATIONS

- Several options: PC, handheld control unit or software interface
- Real time operation concept
- Storage: RAM 28MB, 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

- 100/230V (autorange), 1 PH, 48-62 Hz, 2 kVA (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

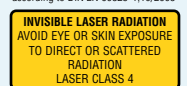
- Supply Unit: IP22; Marking Head: IP44; Laser Head: IP42; LASER CLASS 4

#### Weight

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



according to DIN EN 60825-1:10/2003



CE conform



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Part No. SL000447  
DN50-0208  
Printed in U.S.A.