make your mark

ALLTEC LC100
Laser Marking System

10 watts for more speed, easier handling and more flexible integration

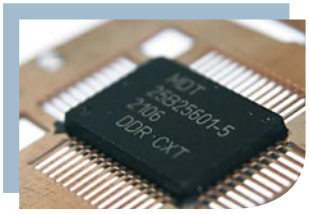
- **Fast and expressive:** excellent marking quality, reliable legibility and extreme reproducibility thanks to advanced high-speed technology.
- **Higher yield:** more information at high speed, from multi-line texts through graphics to machine-readable codes.
- **Simple installation:** thanks to flexible beam delivery options and a unique communication concept.
- **Better marking** with high definition precision optics in an exceptionally large marking field.

From paper to cardboard packaging to PET containers, from electrical and electronic components and automobile parts to extrusion products, **the spectrum of products and materials that can be marked with the *ALLTEC LC100* is virtually unlimited.** The same thing goes for the type of information to be applied, which ranges from expiry dates and manufacturer's information through batch and line numbers, ID matrix and bar codes to graphics and individual data.

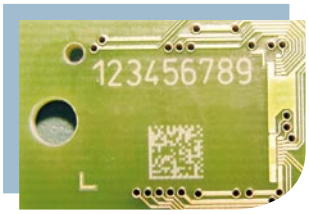
All types of markings are applied in top quality, even in lines with an enormous operational capacity. The *ALLTEC LC100* marks more information at high speed than comparable systems. Additionally, the compact design, flexible components and innovative communication and interface concept ensure fast and simple integration.

Packaging:
Pharmaceutical Box

Food/ Beverage:
PET Bottle



Electr(on)ics:
IC



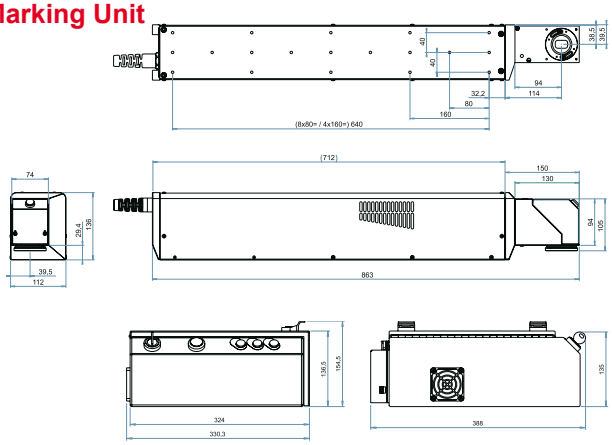
Electr(on)ics:
PCB

Automotive:
Plastic Part
(Temperature Sensor)

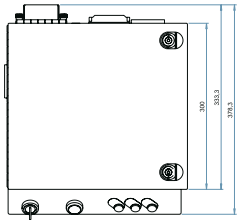
ALLTEC LC100
Laser Marking System

Dimensions

Marking Unit



Supply Unit



All dimensions in mm

Specifications

LASER

Laser Tube
- Sealed-off CO_2 laser, power class 10 W

Laser 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
- Graphic remote control via Ethernet for flexible operation
- Preparation of marking jobs, marking data entry
- System configuration
- Status und 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: German, English, Chinese, Japanese, Russian, Arabic and many others; freely selectable
- Easy access to standard CAD and graphics programs thanks to import functions for the most important file formats
- WYSIWYG
- Various password-protected security levels

***Smart* Graph Com**
- ActiveX software interface for integration into operation software

Communication
- Ethernet, TCP/IP; optional 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 by means of the laser's scripting interface
- Integration via Ethernet (TCP and UDP) and RS232 interface
- Flexible beam delivery options (beam unit/ beam turning unit)

SUPPLY

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

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

CE-conform
RoHS-conform

according to DIN EN 60825-1:10/2003

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

MARKING FEATURES

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

Line Speed
- Up to 10 meters per second (depending on the application)

Marking Field
- *Stationary products:* approx. 44x44 to 177x177 (standard) or 226 x 325 mm² (optional), unlimited number of lines
- *Moving products:* height approx. 44 to 177 (standard) or 325 mm (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;RSS14truncated/ -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 contents
- Sequence and serial numbering
- Automatic date, layer and time coding, real-time clock
- Online coding of individual data (weight, contents, etc.)

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