SmartLase F200

Fiber laser coder

Our technology

The new compact fiber laser SmartLase F200 has been designed to answer your specific coding needs, delivering the best permanent, high quality product coding (text, variable data, logos, 1D and 2D barcodes). Thanks to its wide choice of lenses and scan head technology, this 20 Watt version can code on substrates not compatible with standard laser $C0_2$ technology.

Versatility

- Dedicated wavelength to print onto metal and plastic such as polypropylene.
- Large choice of lenses to meet customer needs (message content, speed, substrate coverage,...)

Unmatched reliability

- Superior laser source lifetime compared to conventional CO_2 source.

Operation optimization

- Stand alone and on line operations possible.
- Suitable for on the fly applications.
- Easy line integration due to compactness of the print head.
- Touch screen handheld terminal to ease message edition, selection, adjustments...
- PC software tool available to set up messages on a remote mode if required.
- Pointing diode option available to ease coding location onto substrates.

Printing performance

- High print speed capability but dependent on substrate and message content.
- 4 different fonts available.
- Complex messages including 1D or 2D barcodes possible via PC software support.
- Permanent coding onto metals, plastic to secure long term traceability.

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SmartLase F200 specifications

Print features

- Production line speed (max.): up to 120 m/min*
- Marking speed (max): up to 1000 characters/s*
- Coding on stationary or moving products
- Number of text lines: limited only by character height and allowable print area. Limited to 4 lines if handheld terminal used.
- Character height: from 1mm to allowable print area
- Logos, graphics, one & two dimensional barcodes
- Choice of 4 laser fonts
- True Type fonts
- Coding area and focal distance of the lens (mm, standard): 55x55 / fd 100, 100x100 / fd 162, 160x160 / fd 254, 242x242 / fd 346.
- Pointing diode (635nm).

*Depends on the size and complexity of the message as well as nature of the surface marked

Operations

- Color touch screen
- QWERTY or AZERTY keyboard
- Navigation via icons
- Message storage capacity of 512M for resident jobs
- RS-232/422 connectivity, Ethernet (TCP/IP) interface

Accessories

- Dust and gas extractor
- Laser stand (controller, print head and user interface)
- Guarding tunnel
- Photocell
- Encoder
- Alarm beacon

Options

- Coding area and focal distance (mm):
  - Lens 55 x 55 / fd 100
  - Lens 160 x 160 / fd 254
  - Lens 242 x 242 / fd 346

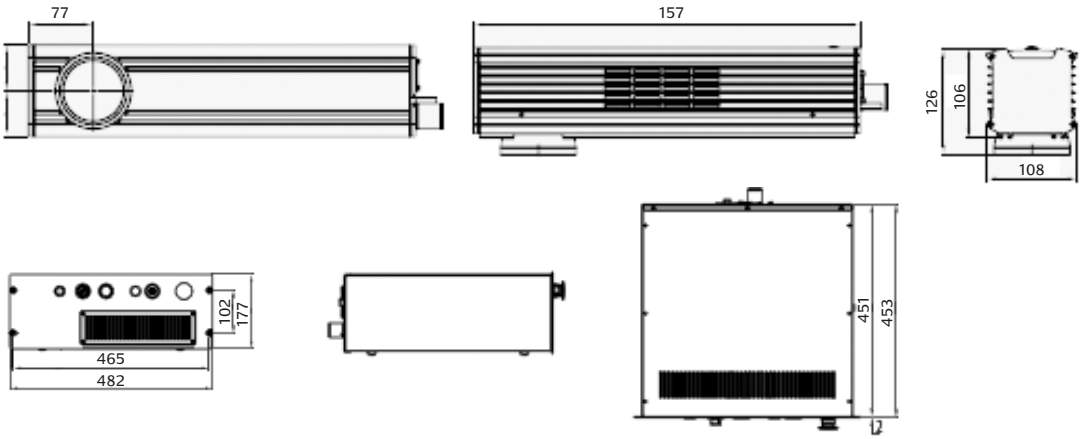
Other characteristics

- Wavelength: 1,07µm
- Head weight: 5 kg
- Controller weight: 21 kg
- Interconnecting cable length: 6 m
- Controller: Painted Steel
- Head: Aluminum design
- Dust/humidity protection: IP20
- No plant air required for cooling
- Operating temperature range: 15 to 35°C (59–97°F)
- Humidity: 10 to 95% non-condensing
- Electrical power supply: 125-230 V with automatic switching; frequency 50/60 Hz
- Power consumption: 3 A

PC software

- Not compatible with CoLOS Create Professional and CoLOS Enterprise
- Specific software available for networking requirements and message editing for remote mode.

SmartLase F200 print head and controller



To learn more, visit www.markem-imaje.com

We reserve the right to amend the design and/or specifications of our products without notice.

Agency: www.lemeccanographiste.fr
Photos: Photos: ginko-photo.com – A1

9, rue Gaspard Monge
B.P. 110
26501 Bourg-lès-Valence Cedex – France
Tél: +33 (0) 4 75 75 55 00
Fax: +33 (0) 4 75 82 98 10

150 Congress Street
Keene, NH 03431
United States of America
Tél: +1 800-258-5356
Fax: +1 603-357-1835

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