

MARKEM SMARTLASE® 100i SERIES LASER CODERS

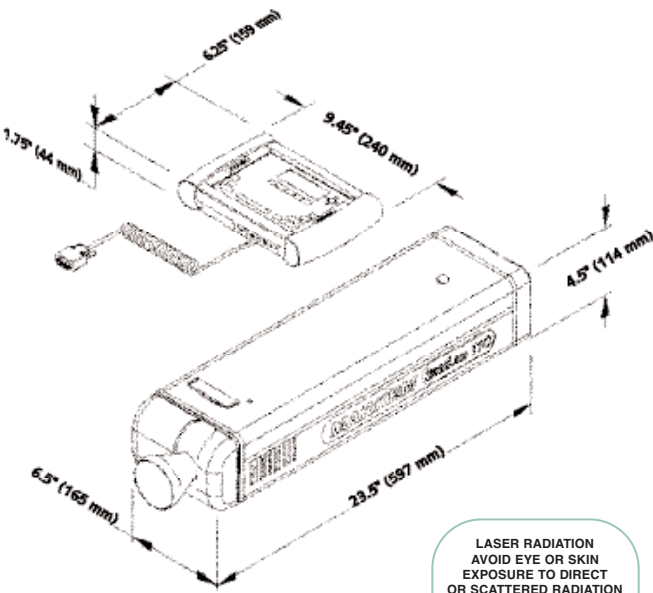
Efficient, flexible and reliable laser technology for package coding.

MARKEM®



The compact SmartLase 110i low-power CO₂ laser coder is easy to install and eliminates daily maintenance, spare parts and the need for printing consumables.

- A user-friendly interface simplifies operation, reducing operator training
- Unique flexible image format technology accommodates a variety of code requirements
- Patented laser beam management allows it to last three times longer than other lasers



LASER RADIATION
AVOID EYE OR SKIN
EXPOSURE TO DIRECT
OR SCATTERED RADIATION

CLASS 4 LASER PRODUCT

CO₂: 50 Watts
9,200 - 10,800 nm
RED 650 nm, 5mW

SMARTLASE 110i SPECIFICATIONS

REMOTE CONTROL

Display Type:	1/4 VGA Backlit Graphics Display
Resloution:	240 x 320 pixels
Input Key Pad:	Membrane QWERTY touch pad
Character Type:	Number pad, navigation keys and graphic character subset
Mode Control:	Run (auto), Stop (standby) and Demo (manual)
Laser Intensity:	One-touch function key
Graphic Layout:	Color-coded functionality
Size (H x W x L):	6.25" x 9.45" x 1.75" (15.9 cm x 24 cm x 4.4 cm)

PRINTER

Lines of print:*	Unlimited within physical print area
Characters per line:*	Unlimited within physical print area
Printing Area (H x W):	2.0" x 3.2" (50 mm x 80 mm) max.
Character Format:	Mixed matrix capability up to 255 x 255 spots
Character Type:	Alphanumeric, graphics and symbols
Character Size:	Adjustable from 0.02" to 2.0" (0.5 mm to 51 mm) max.
Image orientation:	0°-360°
Print aperture orientation:	0°-90°
Laser Type:	10 Watt, air cooled RF excited CO ₂ Laser
Line Speed:**	Up to 300 ft./minute (90 m/minute)
Protection:	IP20C, standard
Dust:	Yes, optional
Washdown:	No
Operating temperature:	5° to 40° C (41° to 105° F)
Connectivity:	RS422, standard / Ethernet, optional
Input:	100-120/200-240VAC / 50-60Hz, 225 Watts max.
Size (H x W x L):	4.5" x 6.5" x 23.5" (11.4 cm x 16.5 cm x 59.7 cm)
Weight:	22 lbs. (10 kg.)

* dependent on character size print area

** dependent on number of characters, resolution and substrate

Covered by patents including U.S. Patent 6,791,592

To ensure proper machine operation, print area, surface speed and cycle rate (packages per minute) must be qualified by a MARKEM representative. Specifications and other technical information are subject to change without notice.



Specifications and other technical information are subject to change without notice. The information contained herein is based on testing using MARKEM supplies, software and parts. Test conditions may vary from end use. The exclusive warranty on MARKEM products is set forth in the MARKEM standard warranty. The user should test to determine suitability for an intended use.

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MARKEM SMARTLASE® 130i SERIES LASER CODERS

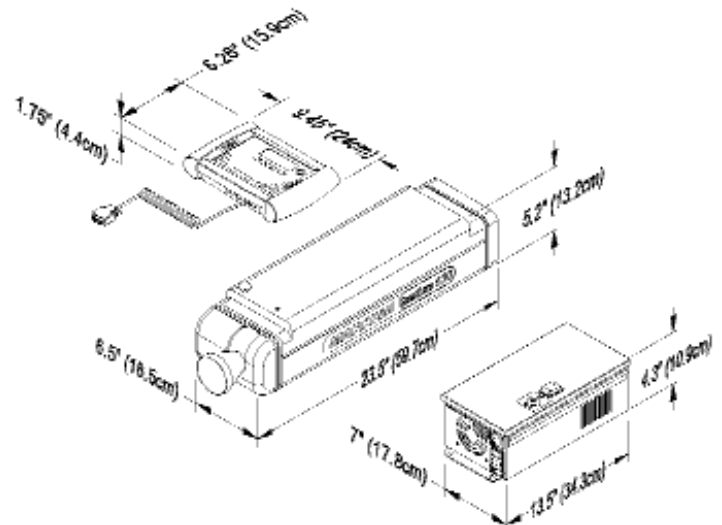
Efficient, flexible and reliable laser technology for package coding.

MARKEM®



The compact SmartLase 130i low-power CO₂ laser coder is easy to install and eliminates daily maintenance, spare parts and the need for printing consumables.

- A user-friendly interface simplifies operation, reducing operator training
- Unique flexible image format technology accommodates a variety of code requirements
- Patented laser beam management allows it to last three times longer than other lasers



LASER RADIATION
AVOID EYE OR SKIN
EXPOSURE TO DIRECT
OR SCATTERED RADIATION

CLASS 4 LASER PRODUCT

CO₂: 50 Watts
9,200 - 10,800 nm
RED 650 nm, 5mW

SMARTLASE 130i SPECIFICATIONS

REMOTE CONTROL

Display Type:	1/4 VGA Backlit Graphics Display
Resolution:	240 x 320 pixels
Input Key Pad:	Membrane QWERTY touch pad
Character Type:	Number pad, navigation keys and graphic character subset
Mode Control:	Run (auto), Stop (standby) and Demo (manual)
Laser Intensity:	One-touch function key
Graphic Layout:	Color-coded functionality
Size (H x W x L):	6.25" x 9.45" x 1.75" (15.9 cm x 24 cm x 4.4 cm)

PRINTER

Lines of print:*	Unlimited within physical print area
Characters per line:*	Unlimited within physical print area
Printing Area (H x W):	2.0" x 3.2" (50 mm x 80 mm) max.
Character Format:	Mixed matrix capability up to 255 x 255 spots
Character Type:	Alphanumeric, graphics and symbols
Character Size:	Adjustable from 0.02" to 2.0" (0.5 mm to 51 mm) max.
Image orientation:	0°-360°
Print aperture orientation:	0°-90°
Laser Type:	30 Watt, air cooled RF excited CO2 Laser
Line Speed:**	Up to 300 ft./minute (90 m/minute)
Protection:	IP20C, standard
Dust:	Yes, optional
Washdown:	No
Operating temperature:	40° C (104° F)
Connectivity:	RS485, standard / Ethernet, optional
Input:	48 VDC, 600 Watts max.
Size (H x W x L):	4.18" x 7.3" x 13.5" (10.6 cm x 18.5 cm x 34.3 cm)
Weight:	12.3 lbs. (5.5 kg.)

POWER SUPPLY

Output:	48 VDC, 600 Watts max.
Input:	100-120/200-240VAC / 50-60Hz, 600 Watts max.
Protection:	IP20C
Operating temperature:	5° to 40° C (41° to 105° F)
Size (H x W x L):	4.3" x 7" x 13.5" (10.9 cm x 17.8 cm x 34.3 cm)
Weight:	11.5 lbs. (5.2 kgs.)

* dependent on character size print area

** dependent on number of characters, resolution and substrate

Covered by patents including U.S. Patent 6,791,592

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MARKEM SMARTLASE® 110i SERIES LASER CODERS

Designed to stand up to harsh production environments

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The compact SmartLase 110i low-power CO2 laser coder, NEMA 4x and IP65 rated, is easy to install and eliminates daily maintenance, spare parts and the need for inks and solvents.

- A user-friendly interface simplifies operation, reducing operator training
- Unique flexible image format technology accommodates a variety of code requirements
- Patented laser beam management allows it to last three times longer than other lasers

washdown sheet



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