

LINX CSL10 & CSL30 LASER CODERS



Easy integration

- ✓ **Multiple configurations** to allow the laser head code in many orientations to meet specific line requirements
- ✓ **Meets your specific application** with the largest range of marking heads, lenses and wavelength options
- ✓ **Range of laser tubes** to mark a top quality code onto different materials



Meet your production targets

- ✓ **The powerful, four-core processor** allows printing of large amounts of complex variable data, including 2d barcodes, onto high speed lines
- ✓ **Exceptionally high marking speed** allows you to meet your coding requirements even on the fastest of production lines



Ease of use

- ✓ **Easy message creation** and management of printing parameters with the large colour LinxVision® Touch Screen, and LinxVision software
- ✓ **Setup wizards** simplify installation of the laser on your line
- ✓ **Reduce your coding errors** and meet coding regulations with complete password controls that can restrict access to qualified personnel only, and include digital signatures for every user interaction

Meet production targets, regulations and customer demands with fast and easy to use Linx CSL10 and CSL30 laser coders.

The Linx CSL10 and CSL30 laser coders offer you the most flexible solution for applying simple or complex codes, onto a range of materials at different line speeds, and can be easily tailored for your individual requirements.

Linx CSL10 & CSL30

CSL10 LASER MARKING UNIT



CSL30 LASER MARKING UNIT



SUPPLY UNIT



LINXVISION TOUCH SCREEN



Technical Specifications

LASER DETAILS

Laser type: sealed RF excited CO₂

Max. laser output (10.6µm): 10w CSL10 & 30w CSL30

Laser wave length: 10.6µm (Standard) or 9.3µm (PET) (or 10.2µm (Card) only available CSL30)

Laser tube warranty: 2 years

Laser Tube Life (average)*: 45,000hrs

PERFORMANCE

Line speed*: up to 900 m/min

Marking speed*: up to 2000 characters/sec

No. lines of text: only limited by character size and marking field size

Character height: up to marking field size

Print rotation: 0-360°

LASER HEAD & LENS OPTIONS

Laser head options: SHC60, SHC100, (SHC150 only available on CSL30)

Lens (mm): 63.5, 64, 85, 95, 127, 100, 150, 190, 200, 254, 300, 351, 400, 500, 600

Spot size: from 0.12 mm to 1.65 mm

Marking field size: up to 440 mm x 601 mm

Mark distance: from 67 mm to 576 mm

PHYSICAL CHARACTERISTICS

Material: stainless steel covers, anodized aluminium chassis

Weight: CSL10 laser marking unit with SHC60 head 15 kg, CSL30 laser marking unit with SHC60c head 20 kg

Conduit length: 3 m (standard), 5 m (optional), 10 m (optional)

Head mounting options: down (90°), or straight shooter (0°), variable length Beam Extension Units (BEU), 90° Beam Turning Unit (BTU)

Marking head rotation: 0-360° with BEU and BTU

Protection class: IP54 or IP65 (optional)

Cooling: IP54 Air cooled, IP65 Blower Unit

Supply voltage/frequency: auto selection range 100 to 240V

Maximum power consumption: CSL10 – 0.4kW; CSL30 – 0.7kW

LINXVISION® SOFTWARE

Easy access operator toolbar: date & time offset, variable text, rotate / flip / mirror / curve / scale message, adjust laser intensity

Multiple operating languages: Arabic, Brazilian Portuguese, Bulgarian, Chinese Simplified, Chinese Traditional, Croatian, Czech, Danish, Dutch, English, Finnish, French, German, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Russian, Slovak, Spanish, Swedish, Thai, Turkish, Vietnamese

Password protection: multiple protection levels and access rights (User defined)

CODING AND PROGRAMMING FACILITIES

Code options: date, time, static text, variable text, serial numbers, shift codes, increment/decrement (batch count), 1D/2D barcodes, graphics and logos, Julian date, Custom date and time formats, 2D codes including DotCode

Character type: vector fonts

Standard system vector fonts: OTF, TTF, PFA, PFB and SVG fonts

Optional customized fonts: Arabic, Bengali, Chinese, Japanese, Russian, Thai, Vietnamese

Bar codes: BC25, BC25I, BC39, BC39E, BC93, GSI-128, PZN, EAN 8, EAN 13, BC128, EAN 128, POSTNET, SCC14, UPC_A, UPC_E, RSS14TR, RSS14ST, RSS14STO, RSSLIM, RSSLIMGP, RSSEXP

Data matrix 2D codes: ECC000, ECC050, ECC080, ECC100, ECC140, ECC200, ECC PLAIN, QR, Aztec

ENVIRONMENTAL DETAILS

Ambient operating temperature: 5 to 40°C (70% duty cycle at maximum temperature)

Automatic overheat detection: yes

Storage temperature: -10 to 70°C

Humidity range: maximum of 90% (relative, non-condensing)

INTERFACING

Interface ports: 1 detector, 1 encoder, 1 beacon, 1 fume extraction, 2 safety incl single/dual interlock, 1 Serial RS232, 1 Ethernet RJ45, 1 LinxVision Touch Screen

Input/Output options: Job select, Start / Stop, Trigger monitor, Trigger enable, Good / Bad marking signal, Marking, Laser ready, Ready to mark, Shutter closed

SAFETY FEATURES

Interlocks (standard): European or American

Interlocks (optional): internal safety module to meet EU Directive performance level D

REGULATORY APPROVALS

• CE • NRTL/FCC • EAC • RoHS

* Tube life / line and marking speeds are application dependent



For more information, contact Linx Printing Technologies Ltd, Linx House, 8 Stocks Bridge Way, Compass Point Business Park, St Ives, Cambs, PE27 5JL, UK.

Telephone +44 (0)1480 302100 Email sales@linxglobal.com Website www.linxglobal.com

Linx, LinxVision and VisiCode are registered trademarks of Linx Printing Technologies Ltd.
© Linx Printing Technologies Ltd 2023



LinxVision®

Linx CSL10, CSL30 and CSL60 laser coders

Look at your production line in a whole new light. Choose a LinxVision® touch screen user interface for your Linx laser coder and see the difference straightaway.

Intuitive operation

- Large colour screen clearly shows your selected message. This makes message creation and selection quick and easy, and means less downtime between product changeovers
- Be up and running in no time with our user-friendly menus – reduce errors and the need for training with the large icon display, intuitive message creation and simple file management
- Easy access toolbar – enables operators to quickly modify messages after activation, meaning less downtime for you
- Set different levels of user access according to job role, to reduce coding errors.

Easy to set up on your line

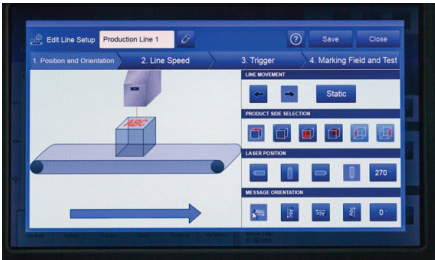
- Quick message preview – quickly browse your saved messages and preview each message on the WYSIWYG display. Select the right message first time, every time for error-free coding
- Total user management – the LinxVision interface allows the production manager to define multiple users with dedicated access rights. Users can then only access system areas allocated to their responsibility which means less room for errors.

Simple implementation

- Quick installation on your line using the unique LinxVision set-up wizard. This quickly guides the installation engineer through configuration for your line setup which means you can quickly start to enjoy the benefits of your Linx laser
- Robust IP65 design – for maximum reliability and uptime in even the harshest of coding environments
- VESA® brackets – install LinxVision anywhere on your production line with standard bracket mounts.



LINE SET-UP WIZARD



MESSAGE PREVIEW



ROLES AND ACCESS RIGHTS



Technical Specifications

PHYSICAL CHARACTERISTICS

- Material: Stainless steel
- Protection class: IP65
- Dimensions (H x W x L): 300mm x 215mm x 45mm
- Weight: 2.5 kg
- Cable: 5m cable combining ethernet and power

DISPLAY & TOUCH SCREEN

- Display resolution (pixels): 1024 x 600
- Screen size: 10.1" LCD colour touch screen
- Screen type: Resistive touch

LINXVISION SOFTWARE

- Message select preview
- Message creation/editing: Date, time, static text, variable text, serial numbers, shift codes, batch codes, ID Matrix, barcodes, graphics and logos
- Operator toolbar: Modify date and time offset, variable text, rotate/move/scale message and laser intensity
- Laser Status
- Password protection: Multiple protection levels and access rights (User defined)
- Import/Export to USB
- Operating Languages: Arabic, Brazilian Portuguese, Bulgarian, Chinese Simplified, Chinese Traditional, Croatian, Czech, Danish, Dutch, English, Finnish, French, German, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Russian, Slovakian, Spanish, Swedish, Thai, Turkish, Vietnamese

HARDWARE

- Processor: Intel Atom E3815, 1.46 GHz
- RAM: 1GB SDRAM
- Graphics: Intel HD Graphics (Atom E3800)
- Disk Drive: Build-in solid state disk drive

OPERATING SYSTEM

- Microsoft® Windows® Embedded Standard 7 SP1 x86

CONNECTIVITY

- Ethernet port: One 100Mbit
- USB: Two USB 2.0 ports

OPERATING ENVIRONMENT

- Operating Temperature Range: +5 - +40°C
- Humidity Range: 10-90%, non-condensing

ELECTRICAL SUPPLY

- 20VDC to 32VDC / 1.5A

REGULATORY APPROVALS

- CE • NRTL/FCC • EAC





Linx VisiCode®

Higher quality laser coding onto glass

Linx VisiCode is a unique set of parameters available in the Linx range of laser coders (CSL10, CSL30, CSL60) which produces highly visible markings on cold glass, even at the highest line speeds.

How does a laser code?

Linx CO₂ scribing laser coders produce a code on glass by firing the laser continuously. Two galvanometer-driven mirrors in the laser head tilt to move the laser beam over the surface of the glass to draw the code.

The laser beam induces thermal stress in glass, causing micro-cracks in the surface which produce a contrasting mark.

Glass is particularly hard to mark, so the 'dwell time' or time that the laser beam is directed to the surface of the glass, may be longer than on other materials that are easier to mark, such as card. This can use more laser power.

How does VisiCode produce a code?

VisiCode is a special set of parameters that modulates the laser to an adjusted pulse frequency, instead of a continuous wave. Each laser pulse produces micro cracks in the surface of the glass substrate. These cracks produce a slightly opaque dot with a higher contrast to the surrounding transparent glass. The code is more visible and of higher quality than one produced without the VisiCode feature. The integrity of the glass packaging is unaffected.

Benefits of VisiCode

- More visible code – improve your brand protection and minimise product waste
- High line speeds possible – ideal for high speed bottling lines
- Easy to implement with the help of a preinstalled template on the Linx CSL60
- Available with the Linx CSL range of laser coders – reliable, easy to integrate, and designed to suit a wide range of coding applications.

