



Inline Vision Systems

Readability & Validation

Simple user interface and proven reliability of Videojet Laetus Readability & Validation system helps enable accurate detection of printed text and codes.

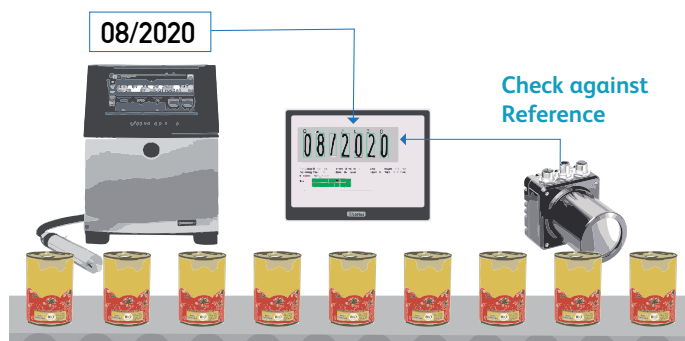
Help ensure printed code presence, readability and accuracy.

Seamless integration in a product line.

Improve quality and optimise production efficiency.



Reference



0	8	/	2	0	2	0
0	8	/	2	0	2	0

Decoding Result	Match	Score Minimum	86 %	Character Height	85-91 Pixel	Threshold	45
Decoding Time	0.0 ms	Score Maximum	96 %	Character Width	23-31 Pixel		
Decoded Rows	(8/20/20)						

Scores :	95	95	96	96	95	95
DTG:						

- Take a photo of the text
- Process the image and attempt to recognize characters
- Match each character against the reference text
- Communicate results to improve quality and optimise production efficiency

Consumer confidence

- Increase accuracy of variable data (e.g. Expiry Date or Best Before), helping to ensure that the information provided to the consumer matches the product life
- 100% quality-inspected products placed into the market
- Maintain brand quality with consistently readable and validated text information

Setup made easy

- Setup time is minimised by integral SKU/article management
- Variable data input is simplified, ensuring the operator needs to input the data only once for printer and camera
- Use of handheld scanners further reduces potential mistakes by scanning work order bar codes

Communication and connectivity

- Remove potential for human error with suite of line integration and code management capabilities
- Management of marking system codes directly from the vision controller
- Multiple cameras/printers can be connected together and be setup from a central point

Production efficiency

- Reduce costs caused by rework, recalls and scrap
- Fast and reliable set-up and changeover helps ensure high OEE
- End-of-batch report gives production managers the best traceability for quality issues

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User interface and software

Laetus NAVIGATOR for MS Windows

ARGUS wt10 Server Format database, user management, batch protocol, audit trail, multi device management.

COMMANDER 110S, 10" Touch Panel, Windows 10 IoT Enterprise, 128GB SSD

Electrical cabinet, stainless steel, incl. 24V DC power supply, 8-port Ethernet switch, terminal blocks for 2 inspection cameras, Fault stop signal and indicator

Languages

German, English, Czech, Simple Chinese, Dutch, Finnish, French, Greek, Hungarian, Italian, Japanese, Polish, Portuguese, Romanian, Russian, Serbian, Slovenian, Spanish, Swedish, Turkish. Further languages on request

Inspection system

SmartSpect camera system, 1280x 1024 Pixel, 131M (monochrome, max. 85 fps) or 131C (colour sensor max. 35 fps), Intel Celeron N2807 (dual core 1.58 GHz), Windows 10 IoT Enterprise operating system, 4 GByte RAM, 32 GByte SSD, 1 Trigger input, 1 LED strobe output, 2 result outputs, OCV/OCR application software

Option – Bar code application software

OCV/OCR application

Font-based OCR reader, multiple AOI, auto character and row segmentation, max. 64 characters and 5 lines / AOI, font manager for easy training of multiple fonts, multi-character reference, powerful AI tracker (360° depending on application), standard and inverse print reading mode, string match operation, selectable wildcard mode

Bar code application (option)

Omni-directional reading of normal or inversely printed bar code. Total or partial content match function, wildcard mode

Compatible with GS1 (EAN-UCC) data structures (Data Matrix, GS1 DataBar).

ISO related verifier mode to check the bar code print quality in accordance with ISO standards ISO / IEC 15415 (2D-Code) and ISO / IEC 15416 (1D-Code), IOS/IEC TR 29158 (DPM)

1D Bar code symbolologies – EAN/UPC, Code 39, Code 32, 2/5 Interleaved, Code 128, GS1-128, Code 93, Codabar, PHARMA-CODE

2D / Stacked symbolologies - PDF 417, Micro PDF, Data Matrix, GS1 Data Matrix, PPN Data Matrix, QR Code, GS1 Data Bar, GS1 Composite Code

Inspection line speed capability

Depends on application, typically up to 15Hz

Lens and lighting options

- a) SmartSpect 131M, 12 mm C-Mount lens, protection tubs, requires additional lighting module
- b) SmartSpect 131M, 12 mm C-Mount lens, DAL white LED bar module
- c) SmartSpect 131M, 12 mm C-Mount lens, PRL white polarized LED ring module
- d) SmartSpect 131C, 12 mm C-Mount lens, PRL white polarized LED ring module
- e) SmartSpect 131M, 12 mm C-Mount lens, DIL white diffuse LED module

For available camera field of view, please refer to detailed specifications

Environmental protection

Inspection camera IP67 (with lens protection tube), overall protection depends on selected lighting

Option- stainless steel cabinet IP54 (fan less)

Temperature/humidity range

0°C to 50°C (32°F to 122°F)

0% to 90% RH non-condensing

Electrical requirements

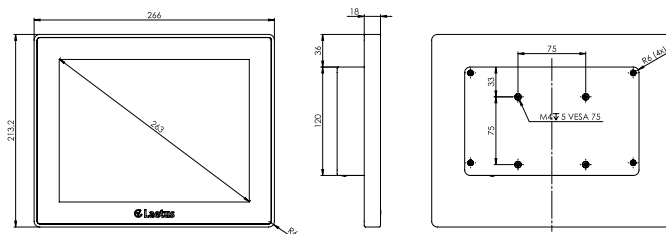
100-240 VAC at 50/60 Hz. Approx. 60W (24V DC, 240W power supply included)

Package options

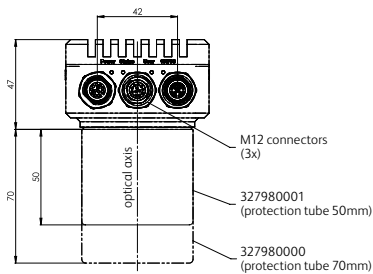
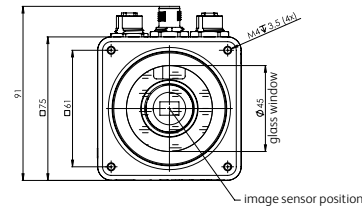
PRINTER wt, interface software to printing system for synchronized format loading, single data entry for printer and camera, max. 7 data strings, support of GS1 application identifier

COCAM wt880, compact 1D/2D bar code reader, WVGA resolution, red/blue LED, 60Hz fps, continuous reading mode, 1 trigger signal, 4 output signals

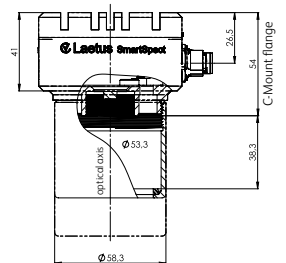
LLS wt580, front or side looking laser scanner, up to 1200Hz, 1D bar code, 1 trigger, 2 output signals



COMMANDER 110S



SmartSpect



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