

Vision Inspection for Quality Control

SmartSpect





APPLICATION MODULES

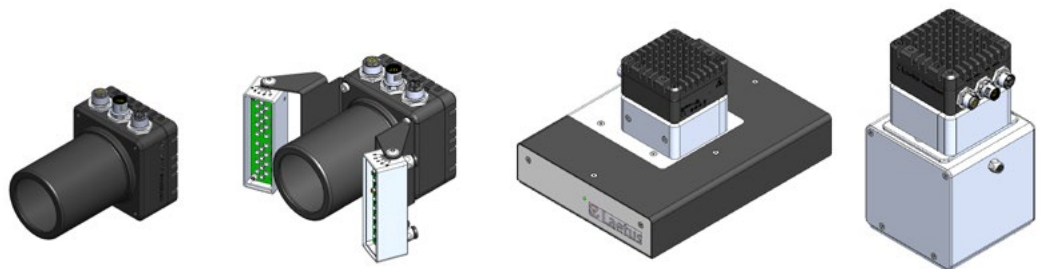
Application Module	Feature Description
Bar Code	<p>Omni-directional reading of normal or inversely printed bar code. Total or partial content match function.</p> <p>Compatible to GS1 (EAN-UCC) data structures (Data Matrix, GS1 DataBar).</p> <p>ISO related verifier mode to check the bar code print quality in accordance with ISO standards ISO / IEC 15415 (2D-Code) and ISO / IEC 15416 (1D-Code).</p> <p>Reads EAN / UPC, Code 39, Code 32, 2/5 Interleaved, Code 128, Code 93, Codabar, GS1 DataBar, PDF 417, Data Matrix ECC 0...140, Data Matrix ECC200, GS1-Data Matrix, 2D-Pharmacode, QR Code, Composite Symbology (GS1).</p>
PHARMA-CODE™	<p>Code conforms to Laetus specification (Pharmaceutical Bar Code Guide 2013) and additional adjustable sizes like Micro Code.</p> <p>Min. 2 bars, max. 16 bars, direction sensitive decoding standard / reverse, quiet zone check (adjustable quiet zone), omni-directional reading with adjustable rotation angle 0...180, partial read mode (horizontal / vertical only).</p>
OCV/OCR	<p>Font based OCR reader, OCV modus for an easy to operate show and go mode. Auto character/auto line segmentation, multi character reference, multi font support.</p> <p>Within OCR modus all decoded characters are checked against all trained characters for best matching.</p>
Consistency Check	<p>Checks results of different applications for matching results (i.e. bar code, OCR).</p>
Application Tracker	<p>Pattern based x/y and rotation sensitive tracker to adapt the application window position.</p>

SPECIFICATION

Camera Systems	SmartSpect 131M	SmartSpect 230M
Resolution (pixel)	1280 x 1024	1920 x 1200
Operating System	Windows IoT 64 Bit	
Processor	Intel® Celeron® N2807 (dual core 1.58 GHz)	
RAM / Mass Storage	4 GByte / 64 GByte	
Application Software	Application module PHARMA-CODE, Bar-Code, OCV / OCR, Consistency Check	
Operational Software	Laetus NAVIGATOR, ARGUS wt10 Server, S-TTS	
Power Supply	24 V DC +/-10% / typ. 10.8 W @ 24V DC	
Digital Input	3 opt-isolated inputs 24V, 3.5 mA, On Level > 11V	
Digital Output	2 configurable outputs, 1 trigger output for strobe control opto-isolated 24V, max.50 mA, PTC fuse	
Fieldbus	Profinet (under development)	
Housing	Anodised aluminium	
Protection	IP 67 (IP 40 with lighting)	
Operating Temperature	0°C ... +50°C	

SMARTSPECT PACKAGES / CONFIGURATIONS LIGHT MODULE

Components	SmartSpect C-Mount	SmartSpect C-Mount Configured with DAL	SmartSpect C-Mount Configured with PAL CP	SmartSpect 131M-8 DIL-10
Base Camera	Select requir. SmartSpect xxx ID-Reader	Select requir. SmartSpect xxx ID-Reader	Select requir. SmartSpect xxx ID-Reader	SmartSpect 131M ID-Reader C-Mount (incl.)
Lens	as required	as required	as required	C-Mount 8 mm lens (incl.)
Lighting	as required	select kit with 2x DAL S white LED	white polarised LED, select PAL CP S/M	DIL LED white (incl.)
Options		polarisation filter	select light protection tube S/M	n/a
Notes		variable FOV	variable FOV	FOV 74 x 53 mm



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Why Laetus

- Over 40 years of experience in optical quality control ensures reliable solutions
- Track & Trace expert supporting small, medium and global companies
- Flexibility in integrating solutions due to a modular approach
- 24/7 hotline
- Worldwide technical service
- Project management from initial consultation to final implementation
- Quality management through validation
- Training academy with a multitude of individual training courses



Solution Partner
Laetus GmbH