VICAM*ssi2*

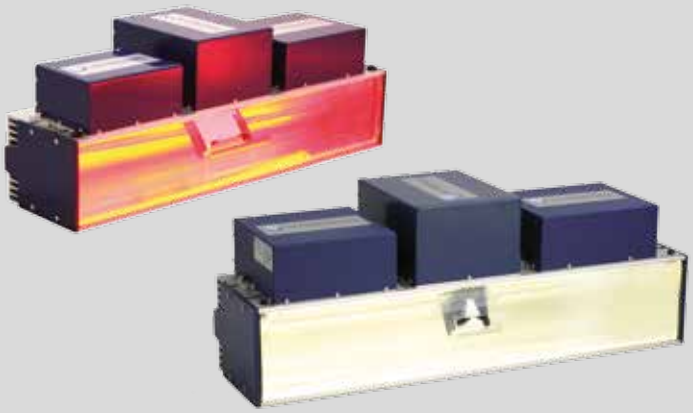
The smallest, lightest and most energy-efficient line scan camera available worldwide

VITRONIC
machine vision people

Optimized for outstanding image quality and highest read rates at fastest conveyor speeds

The new VICAM*ssi2* offers additional advantages:

- With red or white LED illumination
- Optimized for outstanding 210dpi image quality at high belt speeds of up to 4.5m/s (885fpm)
- Covers object widths of more than 1,200mm (~47in)
- Achieves maximum barcode, 2-D code, and OCR (optical character recognition) read rates
- Compact and light weight design for easy transportation, installation, and maintenance
- Lowest energy consumption in its class



***VICAM*ssi2* with red or white LED illumination.**

Compact design
- Only 660mm (26in) wide: 455mm (18in) narrower than the smallest comparable solution worldwide
- Weighs just 19kg (42lbs): 11kg (24lbs) lighter than comparable solutions

Low energy consumption protects environment
- Energy consumption of max. 215W with white LEDs, of max. 225W with red LEDs including decoder
- The automatic stand-by mode drops the energy consumption to only 50W (incl. decoder) when no objects pass in front of the system
- Low energy consumption saves 50 percent compared to alternative solutions

New illumination unit
- New: red and white LEDs; additional reading of red codes/texts on white background, and black codes/texts on green/blue background
- White LEDs with the highest efficiency worldwide
- Consistent illumination of the image field
- Improved light efficiency

Compact and light camera system

*The new VICAM*ssi2* comprises a compact LED illumination, a high-resolution high-speed line scan camera, a compact power supply unit and, optionally, an integrated decoder for simple identification tasks as a stand-alone system.*

Long-term experience
- Experience in logistics since 1994
- 8th generation of VICAM*ssi2*
- More than 5,500 installed camera systems worldwide

Faster and more sensitive camera thanks to new CMOS sensor
- Highest light sensitivity and lowest noise for maximum read rates
- Highest line scan frequency for high resolution images (e.g. 210dpi at 4.5m/s (885fpm))
- Lowest power consumption of the sensor (approx. 50% less than the best competing solution) leads to increased life-time and reduced noise

Integrated decoding unit for standardized reading
- Only one decoding unit is necessary for barcode/2-D reading and simple OCR tasks
- In the case of multi-sided and complex identification tasks, VITRONIC provides separate high performance PCs.

Self diagnostics
- The operating status of the camera unit is continuously monitored
- The factors influencing the lifespan of the unit are saved in files and read out during factory servicing, providing rapid analysis

Modular design
- Exchange VICAM*ssi2* within 5 minutes
- Plug and Play
- No special tools are necessary
- The power supply unit, decoder or the camera module can be swapped within 2 minutes (two screws for each of them)

Highest availability
- MTBF with white LEDs more than 80,000h, with red LEDs more than 75,000h
- Active transient filtering against interference in industrial power supply systems up to +/- 4kV for highest reliability

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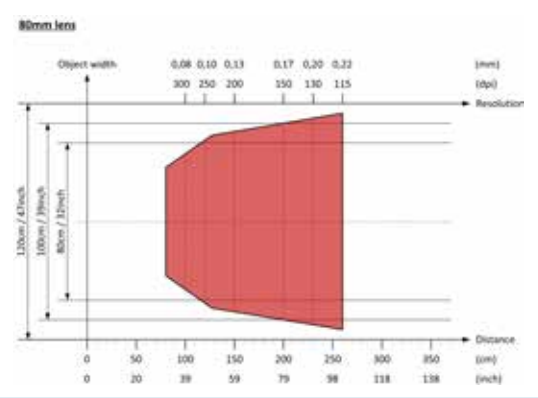
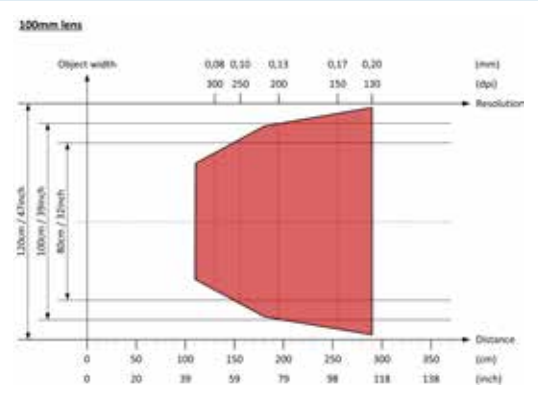
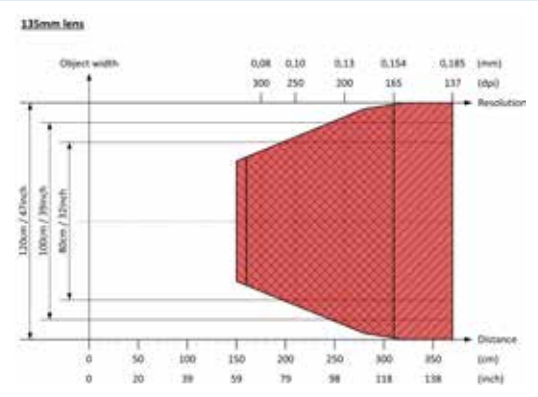
Performance VICAM*SSI2*	
Conveying speed	**max. resolution**
3.0m/s (590fpm)	320dpi
3.8m/s (748fpm)	250dpi
4.5m/s (885fpm)	210dpi

Reading field (red) with different lenses







Technical Data	
Mechanical Data	
Dimensions (width x depth x height)	660mm x 240mm x 290mm 26.0in x 9.5in x 11.4in
Weight	17kg/37lbs. (19kg/42lbs. incl. decoder)
Fixing	profile groove (compatible with Bosch profile system)
VICAM*ssi2*	
Conveyor speed	Up to 4.5m/s (885fpm) at 210dpi
MTBF	white LED: > 80,000h red LED: > 75,000h
MTTR	< 5 min.
Image width max.	1200mm / 47.3in
Range of power supply	115 to 230VAC (+/- 20%), 50 to 60Hz
Input power	white LED: max. 180W (215W with decoder) red LED: max. 190W (225W with decoder)
Camera unit	LSC-AF (Line Scan Camera Auto Focus)
CMOS sensor	line scan camera, 8k
Line frequency	37.8kHz
Pixel frequency	320MHz
Focal length	80mm / 100mm / 135mm
Illumination unit	LEDI-AF (LED Illumination Auto Focus)
Color attributes	white: 4100K color temperature red: 640nm wave length
LED class	1 (eye-safe)
Power supply unit	PSM (Power Supply Module)
Range of power supply	115VAC, 230VAC
Input power	max. 240W
Degree of efficiency	92% at 115VAC, 93% at 230VAC
Interference impulses (according to EN61000-6-2)	standard is exceeded with +/- 4kV
Features	active transient filter; intelligent inrush current limiter; managed by a microcontroller
Decoder unit	MHPC (Mini HookUp PC)
Processor	Pentium Core 2 Duo 1.6GHz
RAM	2 Gigabyte
Memory	SSD 16GByte (40GByte, optionally)
Environmental conditions	
Ambient temperatures	+32°F to +140°F / 0°C to +60°C (without decoder) +32°F to +122°F / 0°C to +50°C (with decoder)
Storage temperatures	+14°F to +140°F / -10°C to +60°C
Humidity	10 to 95 %, non-condensing
Protection class	IP 54

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