VICAM\textsuperscript{ssi2}

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

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

The new VICAM\textsuperscript{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

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

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\textsuperscript{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)

Long-term experience

- Experience in logistics since 1994
- 8th generation of VICAM\textsuperscript{ssi2}
- More than 5,500 installed camera systems worldwide

Compact and light camera system

The new VICAM\textsuperscript{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.

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

VICAM\textsuperscript{ssi2} with red or white LED illumination.
Performance VICAM\textsuperscript{ssi2}

<table>
<thead>
<tr>
<th>Conveying speed</th>
<th>max. resolution</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.0m/s (590fpm)</td>
<td>320dpi</td>
</tr>
<tr>
<td>3.8m/s (748fpm)</td>
<td>250dpi</td>
</tr>
<tr>
<td>4.5m/s (885fpm)</td>
<td>210dpi</td>
</tr>
</tbody>
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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\textsuperscript{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

- **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**
  - 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