Barcode Reader

BCR-772

User's benefits

- Complete hardware-software solution
- Modular system for tailored applications
- Expandable software library included
- Straightforward integration capability

Applications

- Logistics and traceability
- Processing tracking
- Quality control
- Biomedical and chemical analysis
- Assembly verification
- Warehouse

EOPTIS offers a complete hardware/software solution for barcode reading based on an **optical head** comprising a high-sensitivity digital camera, an integrated white ring illuminator and a high quality miniature lens, in an IP40 to IP67 protection-graded case. Optional external illuminators can be added to obtain the proper illumination pattern on all printing substrates.

Multiple optical heads can be simultaneously driven by one host PC (via USB2.0 link) that runs the **software library** for hardware management, and is capable of reading several 1D bar codes and 2D matrix code.

The modular conception of the system architecture ensures high flexibility to the user. It is possible to respond to different needs beyond the bare decoding task (e.g. multiple barcode correlation, selective area reading, barcode cross-check and others) as well as add complex vision-based checks.

This barcode reader offers significant advantages compared to similar systems:

- **Modular concept:** each optical head can be triggered and simultaneously drive multiple cascaded external illuminators. This feature significantly simplifies the integration phase, allowing a faster set-up.
- **Scalable .dll software library:** the software decoding engine is conceived to be straightforward included in Delphi, Visual C++ or other developments tools and to exploit hardware resources available on the host PC, otherwise wasted.

Aluminium or steel case and custom paints are available on request.

Ordering information	Focal Length	Integrated illuminator	External illuminator	Supported code types
BCR-772.P001A	8.0mm	✓	-	1D
BCR-772.P002A	8.0mm	-	✓	1D + 2D
BCR-772.P003A	8.0mm	✓	✓	1D + 2D
BCR-772.P004A	6.0mm	✓	-	1D
BCR-772.P005A	6.0mm	-	✓	1D + 2D

Other configurations are available: check web-site or contact us for non-listed options.

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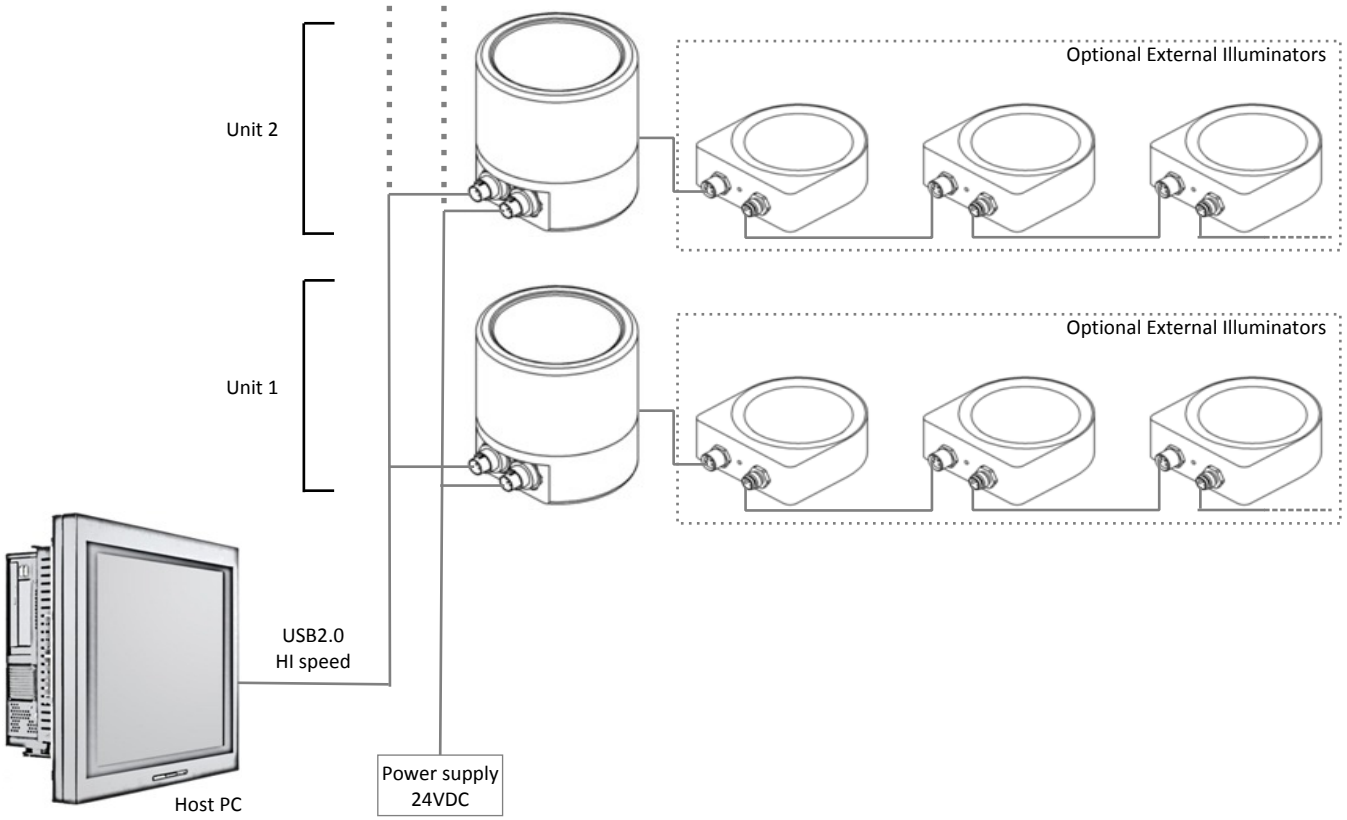
Technical Specifications

Imaging sensor	Sony EXview HAD CCD with Global Shutter	
Resolution and frame rate	1.3 Mpix (1280x960) - 18 FPS / VGA (640x480) - 30 FPS	
Readable symbologies	1D: EAN 8, EAN 13, UPC A, UPC E, Code 25, Code 39, Code 93, Code 128, Patch and GS1 Databar 2D: DataMatrix, PDF-417, micro-PDF-417 and QR Codes	
Synchronization	Free-run / HW-SW trigger	
Reading angle	0°-360° tilt	
	Camera	**Illuminator (int. / ext.)**
Power consumption	5.0VDC via USB; 2W max	24VDC; 200mA
Dimensions and mass	59.6 (∅) x 65.0 mm³; 250g	64.8 x 59.6 x 22 mm³; 120g
Temperature	0 ÷ 40°C operating / -20 ÷ 60°C storage	
	8mm Lens	**6mm Lens**
Focal length and iris	8.0mm - f/# 1.8	6.0mm - f/# 2.0
FOV (H x V x D)	34° x 25° x 42°	46° x 37° x 58°

Connection diagram



EOPTIS designs and manufactures **innovative vision systems** for special applications and **optoelectronic instruments** for the in-line control of products and monitoring of manufacturing processes. Our customers use EOPTIS' products in the industrial, biomedical, security and food sectors. Our know-how in **electronics, optics, mechanics and analysis algorithms** is used to design products available off-the-shelf or for custom OEM solutions.

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