gressler

Precision Print Coding for a Perfect Product

Real-time Monitoring and Inspection

GVS-1400-CR Industrial Code Reader

APPLICATIONS	
Production Line Traceability	Reading 1D and 2D codes for product identification, batch tracking, and serialization on high-speed lines.
Quality Control & Inspection	Verification of printed codes to ensure readability, accuracy, and compliance.
Packaging & Label Inspection	Code reading on cartons, labels, flexible packaging, and retail-ready packaging, including reflective or low-contrast surfaces.
Regulated Manufacturing Environments	Suitable for applications requiring consistent and reliable code reading in food & beverage, pharmaceutical, electronics, and automotive production.

RoHS COMPLIANT CE

SALES INQUIRY

0878 4737 7537

PT MULIA MESIN INDUSTRI
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021 5020 0990

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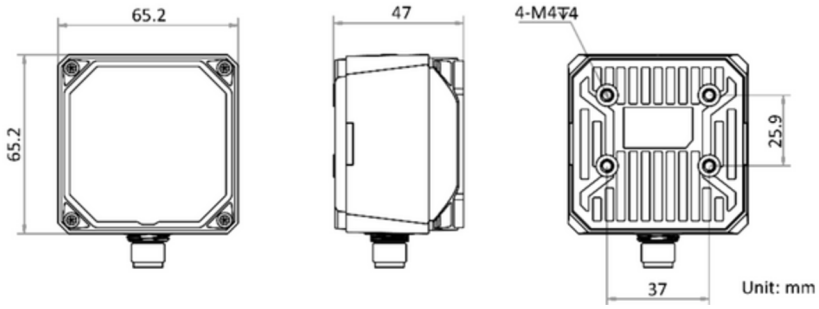
Service Branches & Engineering Support Network

- Jakarta
- Surabaya
- Semarang
- Bandung
- Makassar
- Bali
- Lampung

KEY FUNCTIONAL FEATURES

1. The Gressler GVS-1400-CR is designed for reliable code reading and verification.
2. The device incorporates a decoding algorithm to ensure reliable code reading under defined operating conditions.
   A CMOS global shutter image sensor provides stable image acquisition suitable for high-speed industrial applications.
3. The system includes an integrated illumination module supporting polarized and non-polarized operation to ensure adequate code contrast across a range of materials. Multiple digital input and output interfaces enable safe integration with industrial control systems.
4. Visual indicators and aiming aids are provided to support correct installation, operational monitoring, and user awareness of device status.

PRODUCT DIMENSIONS



PARAMETER AND SPECIFICATIONS

Camera	
Sensor Type	CMOS, Global Shutter
Sensor Size	1/2.7 inch
Resolution	1280 × 1024 pixels
Pixel Size	4 μm × 4 μm
Color Mode	Monochrome
Maximum Frame Rate	60 fps
Maximum Reading Speed	Up to 84 codes/second
Exposure Time Range	35 μs to 1 second
Gain Range	0 dB to 15 dB

Optical System	
Lens Mount	M12
Autofocus	Mechanical autofocus supported
Available Focal Lengths	6 mm / 12 mm / 14.8 mm
Standard Illumination	White LED
Optional Illumination	Red LED / Blue LED / Infrared
Standard Lens Cover	Half-polarized
Optional Lens Cover	Fully polarized / Transparent

Communication & Data Interface	
Network Interface	Fast Ethernet
Communication Protocols	Smart SDK, TCP Client, TCP Server, Serial, FTP, Profinet, Ethernet/IP, MELSEC, Modbus, FINS, SLMP

Software & System Integration	
Client Software	IDMVS
Configuration Method	PC-based software / SDK
System Integration	PLC, MES, SCADA, production line control systems

Code Compatibility	
1D Codes	Code 39, Code 93, Code 128, Codabar, EAN-8, EAN-13, UPC-A, UPC-E, ITF-14, ITF-25, Matrix 25, MSI, China Post, Code 11, Industrial 25
2D Codes	QR Code, Data Matrix
Stacked Codes	PDF417

Environmental Conditions	
Ingress Protection	IP67 (with proper waterproof lens cap installation)
Operating Temperature	0 °C to 50 °C
Storage Temperature	−30 °C to 70 °C
Operating Humidity	20% to 95% RH, non-condensing

Digital I/O	
Connector Type	17-pin M12
Digital Inputs	LineIn 0 / 1 / 2 × 3 (non-isolated)
Digital Outputs	LineOut 0 / 1 / 2 × 3 (non-isolated)
Serial Interface	RS-232 input ×1, RS-232 output ×1
Trigger Method	External I/O trigger and onboard manual trigger
Operating Mode	Continuous / Triggered

Electrical	
Power Supply	24 VDC
Max. Power Consumption	Approx. 20 W @ 24 VDC (illumination enabled)

Mechanical	
Dimensions (W × H × D)	65.2 × 65.2 × 47 mm
Weight	Approx. 280 g
Housing	Industrial-grade enclosure
Status Indicators	Power (PWR), Network (LNK), Status (STS), Result (OK / NG)

OPERATIONAL NOTES & CONDITIONS

- Product specifications, features, images, and availability are subject to change without prior notice.
- Images and illustrations are for reference only and may differ from the actual product.
- Performance may vary depending on application, code quality, substrate type, lighting conditions, operating environment, and production line speed.
- Installation and operation must be carried out by qualified personnel in accordance with the provided instructions.
- IP67 protection applies only when the device is correctly installed with the appropriate lens cap.
- Warranty terms and service coverage are governed by the official sales agreement.
- Gressler is not responsible for damages resulting from improper use or unauthorized modification.