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GRYPHON™ I GD4500 2D

DATALOGIC
EMPOWER YOUR VISION

Premium hand held scanner for general purpose applications



IMAGING TECHNOLOGY

The Gryphon™ 4500 series represents the premium range of hand held scanners from Datalogic for general purpose applications. Designed with people in mind, the Gryphon I GD4500 imager stands out with an elegant and trendy design, unchallenged ergonomics and features the most advanced Megapixel sensor with white-illumination 2D technology for outstanding performance.

TOP TECHNOLOGIES FOR TODAY'S POS

Perfect for both hand held and presentation reading, the Gryphon I GD4500 imager exploits Datalogic's Motionix™ motion-sensing technology which detects the natural actions of the operator to automatically switch the scanner into the desired scanning mode. This technology works with or without the use of a stand, offering more operational choices. Both the aimer and sensor can be programmed to the user's desired preferences.

Datalogic distinctive reading technology with highly visible white-illumination is easier on the human eyes and reads colored labels better. The highly visible 4-Dot aimer defines a precise reading zone and reduces accidental reads, while the aimer's center cross provides a locator for targeted scanning in a multiple bar code environment.

SIMPLE TO USE AND DEPLOY

The Gryphon I GD4500 omnidirectional imager provides snappy reading performance on all common 1D and 2D codes as well as postal, stacked and composite codes like PDF417. High Density (HD) models are also available for reading smaller, condensed codes. A dedicated version with red illumination optics reads Digital Watermarking.

For mobile marketing or ticketing applications, this imager also offers excellent performance when reading bar codes from mobile devices. The enhanced optics offer improved motion tolerance and high speed imaging to read fast moving codes.

READY TO BE REGULARLY CLEANED AND DISINFECTED

Most of the working environments now have requirements that scanners need to be regularly cleaned and disinfected. The Gryphon 4500 series exploits Disinfectant-Ready enclosures, designed to withstand regular daily cleaning with harsh disinfectant solutions commonly used in a healthcare environment.

FEATURES

- 1 MP optics for superior scanning and Depth Of Field
- Datalogic distinctive technology with highly visible white-illumination and 4-Dot aimer with center cross for targeted scanning
- Datalogic's patented 'Green Spot' technology and exclusive 3GL™ (3 Green Lights) for superior good-read feedback
- Motionix™ motion-sensing technology for seamless reading mode transitions
- Omnidirectional reading
- Advanced motion tolerance optics
- Image capture and document scanning capabilities
- Reads 1D, 2D, postal codes, stacked and composite bar codes and dot codes
- Digital Watermark reading on specific models/applications
- Multi-interface options: USB-only or multi-interface RS-232 / USB / Keyboard Wedge
- Disinfectant-Ready enclosures withstand daily cleaning with harsh disinfectant solutions.
- Specific black models with enclosures treated with anti-microbial additives available (ISO22196 compliant)
- EASEOFCARE Service Plans offer a wide range of service options to protect your investment, ensuring maximum productivity and ROI.

INDUSTRY - APPLICATION

- Retail - Point of Sale
- Light Manufacturing
- Healthcare: in laboratories, pharmacies and in-room patient care
- Access Control, Transportation and Entertainment
- Commercial Services: Postal, Banks, Public Administration, Utilities

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TECHNICAL SPECIFICATIONS

DECODING CAPABILITY	
1D / Linear Codes	Autodiscriminates all standard 1D codes including GS1 DataBar™ linear codes.
2D Codes	Aztec Code; China Han Xin Code; Data Matrix; MaxiCode; Micro QR Code; QR Code; Dot code
Postal Codes	Australian Post; British Post; China Post; IMB; Japanese Post; KIX Post; Planet Code; Postnet; Royal Mail Code (RM4SCC)
Stacked Codes	EAN/JAN Composites; GS1 DataBar Composites; GS1 DataBar Expanded Stacked; GS1 DataBar Stacked; GS1 DataBar Stacked Omnidirectional; MacroPDF; MicroPDF417; PDF417; UPC A/E Composites
Digital Watermarking	Digimarc Barcodes
ELECTRICAL	
Current	Operating: <400 mA @ 5V; < 400 mA @ 12V Standby/Idle: < 90 mA @ 5V; <50 mA @ 12V
Input Voltage	GD4520: 5 VDC GD4590: 4.5 - 14.0 VDC
ENVIRONMENTAL	
Ambient Light	0 - 100,000 lux
Drop Resistance	Withstands repeated drops from 1.8 m / 6.0 ft onto a concrete surface.
ESD Protection (Air Discharge)	16 kV
Humidity (Non-Condensing)	0 - 95%
Particulate and Water Sealing	IP52
Temperature	Operating: 0 to 50 °C / 32 to 122 °F Storage/Transport: -40 to 70 °C / -40 to 158 °F
INTERFACES	
Interfaces	GD4520: USB only GD4590: RS-232 / USB / Keyboard Wedge Multi-Interface
PHYSICAL CHARACTERISTICS	
Colors Available	Black; White
Dimensions	16.6 x 6.8 x 10.9 cm / 6.5 x 2.7 x 4.3 in In Stand: 21 x 7.5 x 10.9 cm / 8.2 x 2.9 x 4.2 in
Weight	161.0 g / 5.7 oz In Stand: 374 g / 13.2 oz
WARRANTY	
Warranty	5-Year Factory Warranty

READING PERFORMANCE	
Image Capture	Graphic Formats: BMP, JPEG, TIFF; Greyscale: 256, 16, 2
Image Sensor	1 Megapixel: 1280 x 800 pixels
Light Source	Aiming: Red Laser 650 nm Illumination: Warm White; Hyper Red LED for Digimarc
Motion Tolerance	35 IPS
Print Contrast Ratio (Minimum)	15%
Reading Angle	Pitch: +/- 65°; Roll (Tilt): 360°; Skew (Yaw): +/- 65°
Reading Indicators	Beeper (Adjustable Tone); Datalogic Three Green Lights (3GL) Good Read Feedback: Datalogic 'Green Spot' on the Code, Dual Good Read LEDs
Resolution (Maximum)	High Density (HD): 1D Linear: 0.077 mm / 3 mils; PDF417: 0.077 mm / 3 mils; Data Matrix: 0.102 mm / 4 mils Standard Range (SR): 1D Linear: 0.102 mm / 4 mils; PDF417: 0.127 mm / 5 mils; Data Matrix: 0.195 mm / 7.5 mils
READING RANGES	
Typical Depth of Field	Minimum distance determined by symbol length and scan angle. Printing resolution, contrast, and ambient light dependent.

GD4500 Standard Range (SR)	*GD4500 High Density (HD)*
Code 39: 5 mils: 7.0 to 38.0 cm / 2.7 to 14.9 in	Code 39: 3 mils: 5.0 to 15.0 cm / 2.0 to 5.9 in
Code 39: 10 mils: 2.2 to 58.0 cm / 0.8 to 22.8 in	Code 39: 5 mils: 0.5 to 25.0 cm / 0.2 to 9.8 in
Data Matrix: 10 mils: 5.5 to 27.0 cm / 2.2 to 10.6 in	Data Matrix: 5 mils: 5.5 to 9.0 cm / 2.2 to 3.5 in
Data Matrix: 15 mils: 2.8 to 41.0 cm / 1.1 to 16.1 in	Data Matrix: 10 mils: 2.0 to 27.0 cm / 0.8 to 10.6 in
EAN/UPC: 13 mils: 1.0 to 71.0 cm / 0.4 to 27.9 in	EAN/UPC: 7.5 mils: 2.0 to 23.5 cm / 0.8 to 9.3 in
PDF417: 10 mils: 2.5 to 41.0 cm / 1.0 to 16.1 in	EAN/UPC: 13 mils: 1.0 to 40.0 cm / 0.4 to 15.7 in
QR Code: 10 mils: 5.5 to 24.0 cm / 2.2 to 9.5 in	PDF417: 4 mils: 3.0 to 12.0 cm / 1.2 to 4.7 in
	PDF417: 10 mils: 0.5 to 31.0 cm / 0.2 to 12.2 in
	QR Code: 10 mils: 2.0 to 25.0 cm / 0.8 to 9.8 in

SAFETY & REGULATORY	
Agency Approvals	The product meets necessary safety and regulatory approvals for its intended use. The Quick Reference Guide for this product can be referred to for a complete list of certifications.
Environmental Compliance	Complies to China RoHS; Complies to EU RoHS
Laser Classification	Caution Laser Radiation - Do not stare into beam; IEC 60825 Class 2
UTILITIES	
Datalogic Aladdin™	Datalogic Aladdin configuration program is available for download at no charge.
OPOS JavaPOS	JavaPOS and OPOS Utilities are available for download at no charge.
Remote Host Download	Remote Host Download Lowers service costs and improves operations

ACCESSORIES

Mounts/Stands

11-0360 Holder, Multi-Purpose, Black
11-0362 Holder, Multi-Purpose, Grey
HLD-G041-BK Desk/Wall Holder, G041, Black
HLD-G041-WH Desk/Wall Holder, G041, White
STD-G041-BK Basic Stand, G041, Black
STD-G041-WH Basic Stand, G041, White
STD-G042-BK Space Saver Stand, G042, Black



DATALOGIC PRODUCT OFFERING



Sensors | Hand Held scanners | Mobile Computers | Laser Marking Systems | Safety Laser Scanner | Vision Systems | Stationary Industrial Scanners | Safety Light Curtains

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