



Gryphon™ GFS41XX

Fixed Mount Linear Imager
Bar Code Reader



Quick Reference Guide

Datalogic ADC, Inc.

959 Terry Street
Eugene, OR 97402
USA

Telephone: (541) 683-5700

Fax: (541) 345-7140

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Patents

This product is covered by one or more of the following patents.

US Pat.: 5,311,000; 5,481,098; 5,929,421; 5,992,740; 6,098,883; 6,260,764;
6,443,360 B1; 6,808,114 B1; 6,997,385 B2; 7,075,663 B2; 7,387,246 B2.

European Pat.: 789,315 B1; 926,620 B1; 997,760 B1; 1,128,315 B1; 1,217,571 B1;
1,396,811 B1; 1,413,971 B1; 1,804,089 B1.

Chinese Pat.: CN ZL200680050007,8

Additional patents pending.

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NOTES

Datalogic ADC, Inc.

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To arrange for a Software Maintenance and Support Agreement please contact your Datalogic sales person.

Gryphon GFS4XXX

Fixed Mount Linear Imager

Bar Code Reader

The Gryphon GFS4XXX is a fully self-contained standard range 1D bar code scanning module for use in self service kiosks or other semi automated equipment requiring the ability to read a bar code. It is intended to be an easy integration by system designers with little expertise in scanning technology. Unlike currently available products, the GFS4XXX uses the latest and fastest imaging technology and offers Datalogic's Green Spot for targeting and good read feedback.

The scanning technology is essentially the same as the Gryphon I 4100 family of linear imagers, with some adjustments made for read range and improved motion tolerance. The enclosure is designed for ease of integration, is sealed to IP54 for cleaning, and is constructed of a solvent- and disinfectant-tolerant resin for health care applications.

The GFS4XXX is a linear CCD Scanner for OEM applications. It is available in two different models:

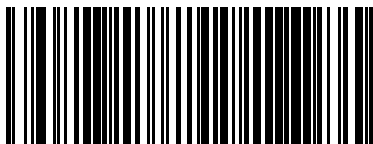
- GFS4170 Gryphon Fixed Scanner imager USB
- GFS4150-9 Gryphon Fixed Scanner imager RS-232 9 pin connector

Setting Up the Reader

Select Interface - USB Interface

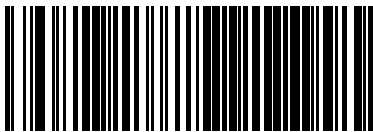
The reader (GFS4170 model only) attaches directly to a USB host or a powered USB hub, and is powered by it. No additional power supply is required. The reader auto-detects the USB and defaults to the HID keyboard interface.

To simulate a Keyboard, scan the bar code below:



Interface Selection: USB-KBD (GFS4170 model only)

To simulate an RS-232 Standard Interface scan the bar code below:



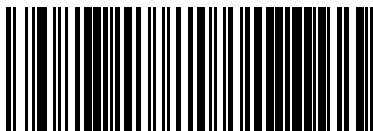
Interface Selection: USB-COM (GFS4170 Model only)



IMPORTANT

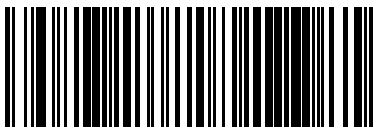
Download the correct USB COM driver from:
<http://www.datalogic.com>.

Select USB Keyboard with alternate key encoding:



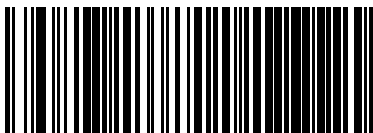
USB Alternate Keyboard

Select USB Keyboard for Apple computers:



USB-KBD-APPLE

Select RS-232 Wincor-Nixdorf:



RS-232 Wincor-Nixdorf

Mounting Bracket

The GFS4XXX can be mounted to a stationary surface using a bracket as shown below. Just attach to the bottom of the reader using screws, as shown in the next two figures.

Figure 1. Mounting the bracket

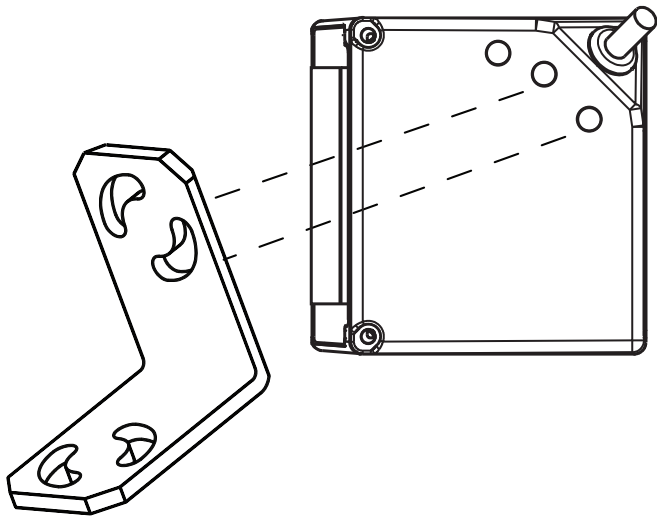
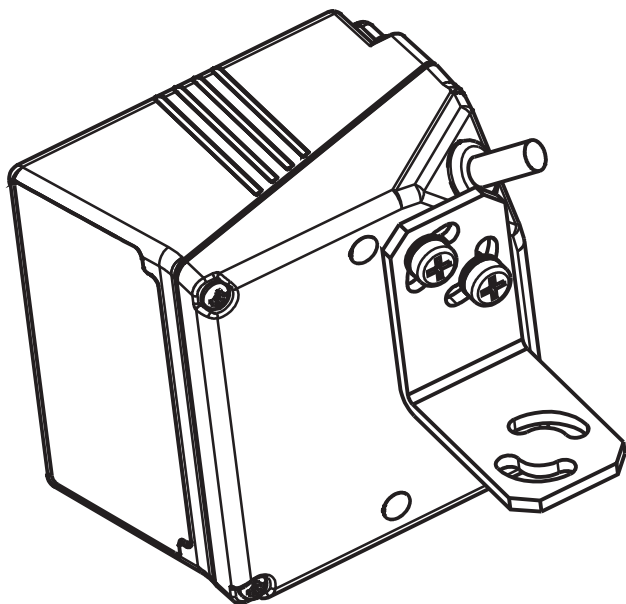


Figure 2. Bracket Attached



Programming

For your convenience, this guide includes the programming bar codes required to configure the reader.

If you aren't sure what programming options are in your reader, or you've changed some options and want the factory settings restored, scan the bar code below:



Restore Default Settings

Operating Modes

The reader can operate in one of several scanning modes:

On Line — Scanning is activated when the button is pushed or through an external trigger (GFS4150-9 only).

Automatic — Scanning is continually on.

Automatic (Object Sense) — Scanning is turned on automatically when an item is placed in reader's field of view.

Strobe Exposure Mode — For any selectable scanning mode, performance on moving bar codes can be improved by flashing the scanner's lighting (strobe mode). The scanner strobes at a very high frequency, so the change in lighting may not be apparent. When enabled, the scanner can read codes moving at up to 1m/sec, depending on the bar size and direction the code is moving.

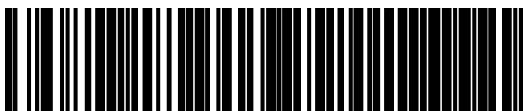
Operating Modes (continued)



Operating Mode = On Line



Operating Mode = Automatic



Operating Mode = Automatic (Object Sense)

Exposure Modes



Continuous



Strobed

Technical Features

Item	Description
Physical Characteristics	
Color	Grey
Dimensions	Height 1.54" / 39mm Length 2.24" / 57mm Width 2.28" / 58 mm
Weight (without brackets)	USB model - Approx. 5.0 ounces/140 g RS-232 model - approx. 6.0 ounces/170 g
Electrical Characteristics	
Input Voltage	5 VDC \pm 5%
External Trigger Input (Only GFS4150-9)	
Voltage	5 \div 30 VDC
Current Consumption	10 mA max
Minimum Pulse Duration	5 ms
Output (Only GFS4150-9)	
Vce	30 Vdc max
Collector Current	40 mA continuous max.
Vce Saturation	1V max at 10 mA
Power Dissipation	80 mW max at 50 °C (ambient temperature)
Current & Power Consumption	Input current at 5V = 390 mA (max) <2.5 mA (GFS4170 model in USB suspend)

Item	Description
Performance Characteristics	
Scan rate	320 scans/s (max)
Light Source	Dual LEDs (Red Light, ≈ 620 nm)
Roll Angle Tolerance	$\pm 35^\circ$
Pitch Angle Tolerance	$\pm 65^\circ$ (Avoid zero angle, $\pm 6^\circ$)
Skew Angle Tolerance	$\pm 65^\circ$
Depth of Field (Typical)	5 mil - 2" to 6.3" (5cm to 16cm) 8 mil - 1.2" to 10.6" (3cm to 27cm) 13 mil* - 1.2" to 15.7" (3cm to 40 cm) 20 mil - up to 23.6" (up to 60 cm)
Minimum Element Width	3 mil
Print Contrast Minimum	15% minimum reflectance
Decode Capability	UPC/EAN/JAN A, E, 13, 8 (including P2 /P5, ISBN / Bookland & ISSN); Code 39 (including full ASCII); Code 39 CIP (French Pharmaceutical); Code 128; I 2 of 5; Standard 2 of 5; China Post Code (DLS 2 of 5); IATA Industrial 2 of 5 Air Cargo Code; Codabar; ABC Codabar; GS1 - 128; Code ISBT 128; MSI; Plessey; DATABAR-14; DATABAR Limited; DATABAR-14 Stacked; DATABAR Expanded Stacked; Code32 (Italian Pharmacode); China Post (DLS 2 of 5).
Interfaces Supported	GFS4150-9 model: RS-232 Standard GFS4170 model: USB COM Standard, USB Keyboard

Item	Description
User Environment	
Operative Temperature	32° to 122° F (0° to 50° C)
Storage Temperature	-13° to 158° F (-25° to 70° C)
Humidity	Operating: 5% to 90% relative humidity, non condensing
Drop specifications	5 drops from 30 inches (0.76 mt.) to concrete
Ambient Light immunity	Up to 100,000 Lux
Contaminants	IP54
ESD Level	16 KV
Regulatory	
LED Emission Class	(IEC-62471:2006-07) Exempt (No Risk) IEC 60825-1:1993 + A1:1997 + A2:2001
Electrical Safety	IEC 60950-1 , CAN/CSA-C22.2 No. 60950-1-03; UL 60950-1
EMI/RFI	North America (FCC) : Part 15 Class B, Canada (IC) : ICES-003 Class B, European Union EMC Directive, Australian (C-tick), Russia (Gost)

* (13 mils DOF based on EAN. All others are Code 39. All labels grade A, minimum illumination 100 lux, 20°C, label inclination 10°, static reading).

RS-232 Electrical Connections

9-pin connector

1	Trigger	Trigger signal input (see Figure 4 and Figure 5 on next page)
2	TX	Transmit Data
3	RX	Receive Data
4	NC	Not connected
5	GND	Ground
6	VCC	+5Vdc
7	CTS	Clear To Send
8	RTS	Request To Send
9	OUT	Output signal (see Figure 3)

Default configuration RS-232: 9600, 8, N, 1, no handshaking, ACK/NAK disabled.

Figure 3. Output Connection

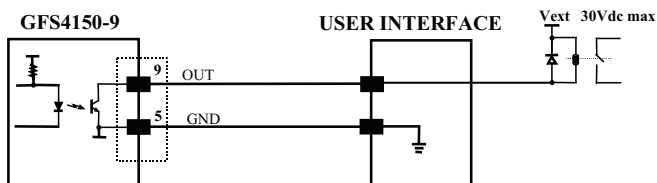


Figure 4. Using GFS4150-9 Power

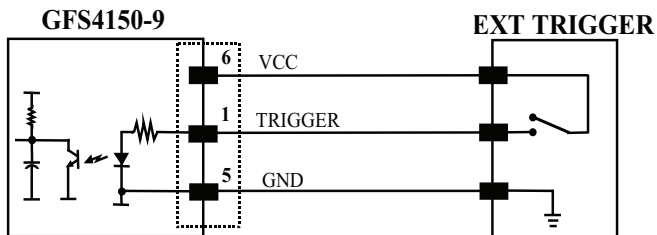
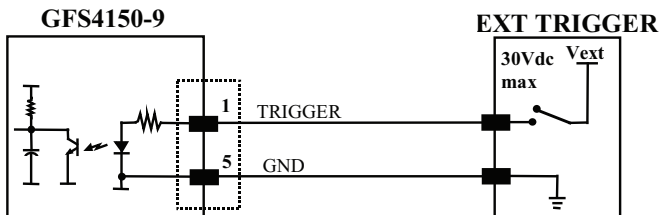



Figure 5. Using External Power Supply



LED and Beeper Indications

Button and LED Status

The top of the product has a button and three indicator LEDs:

	POWER (yellow LED)	ON = Power ON
		OFF = Power OFF or standby (only USB model)
	GOOD (green LED)	ON = Good Read
		Blinks = USB enumeration or interface inactive or waiting for change of configuration
	TRIGGER (blue LED)	ON = external trigger or button pressed or phase active
	Button	Press for manual trigger

Ergonomic Recommendations



CAUTION In order to avoid or minimize the potential risk of ergonomic injury follow the recommendations below. Consult with your local Health & Safety Manager to ensure that you are adhering to your company's safety programs to prevent employee injury.

- Reduce or eliminate repetitive motion
- Maintain a natural position
- Reduce or eliminate excessive force
- Keep objects that are used frequently within easy reach
- Perform tasks at correct heights
- Reduce or eliminate vibration
- Reduce or eliminate direct pressure
- Provide adjustable workstations
- Provide adequate clearance
- Provide a suitable working environment
- Improve work procedures.

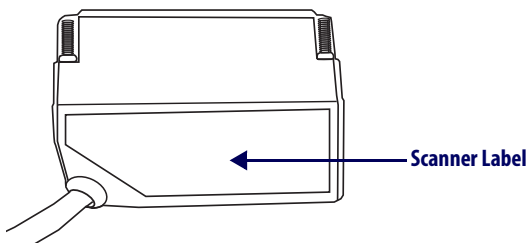
Regulatory Information

All models are designed to be compliant with rules and regulations in locations they are sold and will be labeled as required.

Any changes or modifications to equipment not expressly approved by Datalogic could void the user's authority to operate the equipment.

Reader Labeling

Sample labels are shown for illustrative purposes only. Please view the labels on your product for actual details, as they may vary.



China RoHS Statement



China RoHS

PART	部件名称	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Hexavalent Chromium (Cr(VI))	Polybrominated biphenyls (PBB)	Polybrominated diphenyl ethers (PBDE)
		铅	汞	镉	六价铬	多溴联苯	多溴二苯醚
Printed Circuit Board Assembly	电路板组件	X	O	O	O	O	O
Assy, Optics Block	光学组件	X	O	O	O	O	O
Assy, Module	光学组件	X	O	O	O	O	O
<p>O: 代表此种部件的所有均质材料中所含的该种有毒有害物质均低于中华人民共和国信息产业部所颁布的《电子信息产品中有害物质的限量要求》(SJ/T 11363-2006) 规定的限量。</p> <p>X: 代表此种部件所用的均质材料中, 至少有一类材料其所含的有毒有害物质高于中华人民共和国信息产业部所颁布的《电子信息产品中有害物质的限量要求》(SJ/T 11363-2006) 规定的限量</p>							



RoHS TABLE CHINA

REV. C

WEEE Statement

English

For information about the disposal of Waste Electrical and Electronic Equipment (WEEE), please refer to the website at www.datalogic.com.

Italian

Per informazioni sullo smaltimento delle apparecchiature elettriche ed elettroniche consultare il sito Web www.datalogic.com.

French

Pour toute information relative à l'élimination des déchets électroniques (WEEE), veuillez consulter le site internet www.datalogic.com.

German

Informationen zur Entsorgung von Elektro- und Elektronik- Altgeräten (WEEE) erhalten Sie auf der Webseite www.datalogic.com.

Spanish

Si desea información acerca de los procedimientos para el desecho de los residuos del equipo eléctrico y electrónico (WEEE), visite la página Web www.datalogic.com.

Portuguese

Para informações sobre a disposição de Sucatagem de Equipamentos Elétricos e Eletrônicos (WEEE -Waste Electrical and Electronic Equipment), consultar o site web www.datalogic.com.

Chinese

有关处理废弃电气电子设备（WEEE）的信息，请参考 Datalogic 公司的网站 www.datalogic.com/。

Japanese

廃電気電子機器 (W E E E) の処理についての関連事項は Datalogic のサイト www.datalogic.com をご参照下さい。

Datalogic ADC Limited Factory Warranty

Warranty Coverage

Datalogic warrants to Customer that Datalogic's products will be free from defects in materials and workmanship for a period of one (1) year from product shipment. Datalogic ADC ("Datalogic") hardware products are warranted against defects in material and workmanship under normal and proper use. The liability of Datalogic under this warranty is limited to furnishing the labor and parts necessary to remedy any defect covered by this warranty and restore the product to its normal operating condition. Repair or replacement of product during the warranty does not extend the original warranty term. Products are sold on the basis of specifications applicable at the time of manufacture and Datalogic has no obligation to modify or update products once sold.

If Datalogic determines that a product has defects in material or workmanship, Datalogic shall, at its sole option repair or replace the product without additional charge for parts and labor, or credit or refund the defective products duly returned to Datalogic. To perform repairs, Datalogic may use new or reconditioned parts, components, subassemblies or products that have been tested as meeting applicable specifications for equivalent new material and products. Customer will allow Datalogic to scrap all parts removed from the repaired product. The warranty period shall extend from the date of shipment from Datalogic for the duration published by Datalogic for the product at the time of purchase (Warranty period). Datalogic warrants repaired hardware devices against defects in workmanship and materials on the repaired assembly for a 90 day period starting from the date of shipment of the repaired product from Datalogic or until the expiration of the original warranty period, whichever is longer. Datalogic does not guarantee, and it is not responsible for, the maintenance of, damage to, or loss of configurations, data, and applications on the repaired units and at its sole discretion can return the units in the "factory default" configuration or with any software or firmware update available at the time of the repair (other than the firmware or software installed during the manufacture of the product). Customer accepts responsibility to maintain a back up copy of its software and data.

Warranty Claims Process

In order to obtain service under the Factory Warranty, Customer must notify Datalogic of the claimed defect before the expiration of the applicable Warranty period and obtain from Datalogic a return authorization number (RMA) for return of the product to a designated Datalogic service center. If Datalogic determines Customer's claim is valid, Datalogic will repair or replace product without additional charge for parts and labor. Customer shall be responsible for packaging and shipping the product to the designated Datalogic service center, with shipping charges prepaid. Datalogic shall pay for the return of the product to Customer if the shipment is to a location within

the country in which the Datalogic service center is located. Customer shall be responsible for paying all shipping charges, duties, taxes, and any other charges for products returned to any other locations. Failure to follow the applicable RMA policy, may result in a processing fee. Customer shall be responsible for return shipment expenses for products which Datalogic, at its sole discretion, determines are not defective or eligible for warranty repair.

Warranty Exclusions

The Datalogic Factory Warranty shall not apply to:

- (i) any product which has been damaged, modified, altered, repaired or upgraded by other than Datalogic service personnel or its authorized representatives;
- (ii) any claimed defect, failure or damage which Datalogic determines was caused by faulty operations, improper use, abuse, misuse, wear and tear, negligence, improper storage or use of parts or accessories not approved or supplied by Datalogic;
- (iii) any claimed defect or damage caused by the use of product with any other instrument, equipment or apparatus;
- (iv) any claimed defect or damage caused by the failure to provide proper maintenance, including but not limited to cleaning the upper window in accordance with product manual;
- (v) any defect or damage caused by natural or man-made disaster such as but not limited to fire, water damage, floods, other natural disasters, vandalism or abusive events that would cause internal and external component damage or destruction of the whole unit, consumable items;
- (vi) any damage or malfunctioning caused by non-restoring action as for example firmware or software upgrades, software or hardware reconfigurations etc.;
- (vii) the replacement of upper window/cartridge due to scratching, stains or other degradation and/or
- (viii) any consumable or equivalent (e.g., cables, power supply, batteries, key-pads, touch screen, triggers etc.).

No Assignment

Customer may not assign or otherwise transfer its rights or obligations under this warranty except to a purchaser or transferee of product. No attempted assignment or transfer in violation of this provision shall be valid or binding upon Datalogic.

DATALOGIC'S LIMITED WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, ORAL OR WRITTEN, STATUTORY OR OTHERWISE, INCLUDING, WITHOUT LIMITATION, ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PAR-

TICULAR PURPOSE, OR NONINFRINGEMENT. DATALOGIC SHALL NOT BE LIABLE FOR ANY DAMAGES SUSTAINED BY CUSTOMER ARISING FROM DELAYS IN THE REPLACEMENT OR REPAIR OF PRODUCTS UNDER THE ABOVE. THE REMEDY SET FORTH IN THIS WARRANTY STATEMENT IS THE CUSTOMER'S SOLE AND EXCLUSIVE REMEDY FOR WARRANTY CLAIMS. UNDER NO CIRCUMSTANCES WILL DATALOGIC BE LIABLE TO CUSTOMER OR ANY THIRD PARTY FOR ANY LOST PROFITS, OR ANY INCIDENTAL, CONSEQUENTIAL IN-DIRECT, SPECIAL OR CONTINGENT DAMAGES REGARDLESS OF WHETHER DATALOGIC HAD ADVANCE NOTICE OF THE POSSIBILITY OF SUCH DAMAGES.

Risk of Loss

Customer shall bear risk of loss or damage for product in transit to Datalogic. Datalogic shall assume risk of loss or damage for product in Datalogic's possession. In the absence of specific written instructions for the return of product to Customer, Datalogic will select the carrier, but Datalogic shall not thereby assume any liability in connection with the return shipment.

Ergonomic Recommendations



CAUTION

In order to avoid or minimize the potential risk of ergonomic injury follow the recommendations below. Consult with your local Health & Safety Manager to ensure that you are adhering to your company's safety programs to prevent employee injury.

- Reduce or eliminate repetitive motion
- Maintain a natural position
- Reduce or eliminate excessive force
- Keep objects that are used frequently within easy reach
- Perform tasks at correct heights
- Reduce or eliminate vibration
- Reduce or eliminate direct pressure
- Provide adjustable workstations
- Provide adequate clearance
- Provide a suitable working environment
- Improve work procedures.

Services and Support

Datalogic provides several services as well as technical support through its website. Log on to **www.datalogic.com** and click on the links indicated for further information.

Products

Search through the links to arrive at your product page where you can download specific **Manuals** and **Software & Utilities**, including:

- **Datalogic Aladdin™**, a multi-platform utility program that allows device configuration using a PC. It provides RS-232 interface configuration as well as configuration bar code printing.

Service & Support

- **Technical Support** - Product documentation and programming guides and Technical Support Department in the world
- **Service Programs** - Warranty Extensions and Maintenance Agreements
- **Repair Services** - Flat Rate Repairs and Return Material Authorization (RMA) Repairs
- **Downloads** – Manuals & Documentation, Data Sheets, Product Catalogs, etc.

Contact Us

- Information Request Form and Sales & Service Network.

NOTES



DECLARATION OF CONFORMITY



**Datalogic ADC Srl, Via S. Vitalino, 13
Lippo di Calderara di Reno (BO) 40012 Italy**

EC-064
Rev.: 3
Pag.: 1 di 1

*La presente dichiarazione di conformità è rilasciata sotto la responsabilità esclusiva di Datalogic ADC Srl per:
This Declaration of Conformity is issued under the sole responsibility of Datalogic ADC Srl for:
Cette déclaration de conformité est établie sous la seule responsabilité de Datalogic ADC pour:
Diese Konformitätserklärung wird unter der alleinigen Verantwortung des Datalogic ADC Srl erteilt für:
Esta declaración de conformidad se expide bajo la exclusiva responsabilidad de Datalogic ADC Srl para:*

GFS41xx

*e tutti i suoi modelli
and all its models
et tous ses modèles
und seine Modelle
y todos sus modelos*

*sono conformi alle Direttive del Consiglio Europeo sottoelencate:
are in conformity with the requirements of the European Council Directives listed below:
sont conformes aux spécifications des Directives de l'Union Européenne ci-dessous:
den nachstehenden angeführten Direktiven des Europäischen Rats:
cumple con los requisitos de las Directivas del Consejo Europeo, según la lista siguiente:*

2004/108/EC EMC Directive 2011/65/EC RoHS Directive

Basate sulle legislazioni degli Stati membri in relazione alla compatibilità elettromagnetica ed alla sicurezza dei prodotti.

On the approximation of the laws of Member States relating to electromagnetic compatibility and product safety.

Basée sur la législation des Etats membres relative à la compatibilité électromagnétique et à la sécurité des produits.

Über die Annäherung der Gesetze der Mitgliedsstaaten in bezug auf elektromagnetische Verträglichkeit und Produktsicherheit entsprechen.

Basado en la aproximación de las leyes de los Países Miembros respecto a la compatibilidad electromagnética y las Medidas de seguridad relativas al producto.

*Questa dichiarazione è basata sulla conformità dei prodotti alle norme seguenti:
This declaration is based upon compliance of the products to the following standards:
Cette déclaration repose sur la conformité des produits aux normes suivantes:
Diese Erklärung basiert darauf, daß das Produkt den folgenden Normen entspricht:
Esta declaración se basa en el cumplimiento de los productos con las siguientes normas:*

**EN 55022 (CLASS A ITE), SEP-
TEMBER 2006 + A1, 2007:** *LIMITS AND METHODS OF MEASUREMENTS OF RADIO DISTURBANCE
CHARACTERISTICS OF INFORMATION TECHNOLOGY EQUIPMENT*

EN 61000-6-2, AUGUST 2005: *ELECTROMAGNETIC COMPATIBILITY (EMC)
PART 6-2: GENERIC STANDARDS - IMMUNITY FOR INDUSTRIAL ENVIRONMENTS*

EN 50581, SEPTEMBER 2012: *TECHNICAL DOCUMENTATION FOR THE ASSESSMENT OF ELECTRICAL AND ELECTRONIC PRODUCTS
WITH RESPECT TO THE RESTRICTION OF HAZARDOUS SUBSTANCES*

Lippo di Calderara,
March 29th, 2013

Ruggero Cacioppo
Quality & Reliability MGR - Europe

Ruggero Cacioppo



www.datalogic.com

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Datalogic ADC, Inc.

959 Terry Street | Eugene | OR 97402 | USA
Telephone: (1) 541-683-5700 | Fax: (1) 541-345-7140



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