

# **Gryphon™ GFS4XXX**

## **Fixed Mount Linear Imager Bar Code Reader**



## **Quick Reference Guide**

## **Datalogic Scanning, Inc.**

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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.

Additional patents pending.

# Table of Contents

|  |    |
|--|----|
| Setting Up the Reader .....            | 6  |
| Select Interface - USB Interface ..... | 6  |
| Mounting Bracket .....                 | 8  |
| Programming .....                      | 10 |
| Operating Modes .....                  | 10 |
| Exposure Modes .....                   | 11 |
| Technical Features .....               | 12 |
| RS-232 Electrical Connections .....    | 14 |
| LED and Beeper Indications .....       | 16 |
| Button and LED Status .....            | 16 |
| Ergonomic Recommendations .....        | 17 |
| Regulatory Information .....           | 18 |
| Reader Labeling .....                  | 18 |

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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

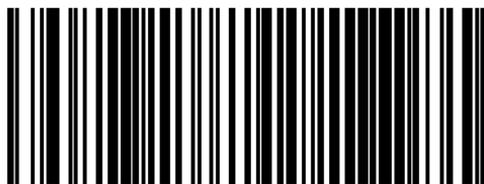
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## Setting Up the Reader

### 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:



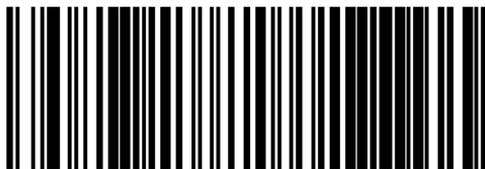
Interface Selection: USB-COM (GFS4170 Model only)



**IMPORTANT**

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

Select USB Keyboard with alternate key encoding:



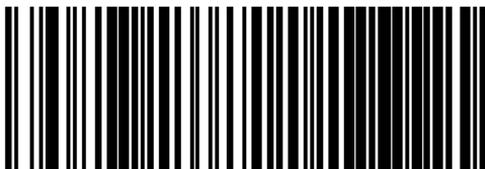
USB Alternate Keyboard

Select USB Keyboard for Apple computers:



USB-KBD-APPLE

Select RS-232 Wincor-Nixdorf:

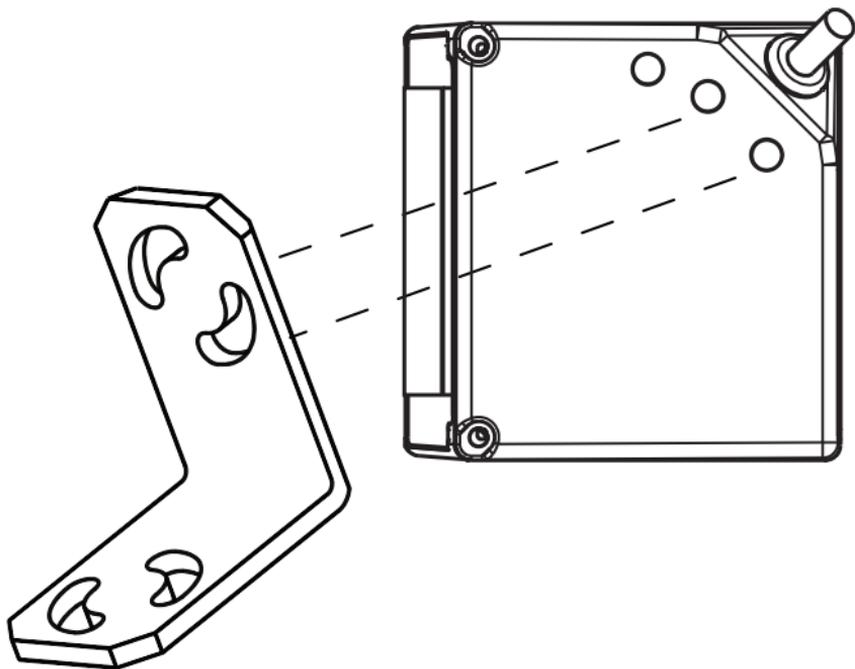


RS-232 Wincor-Nixdorf

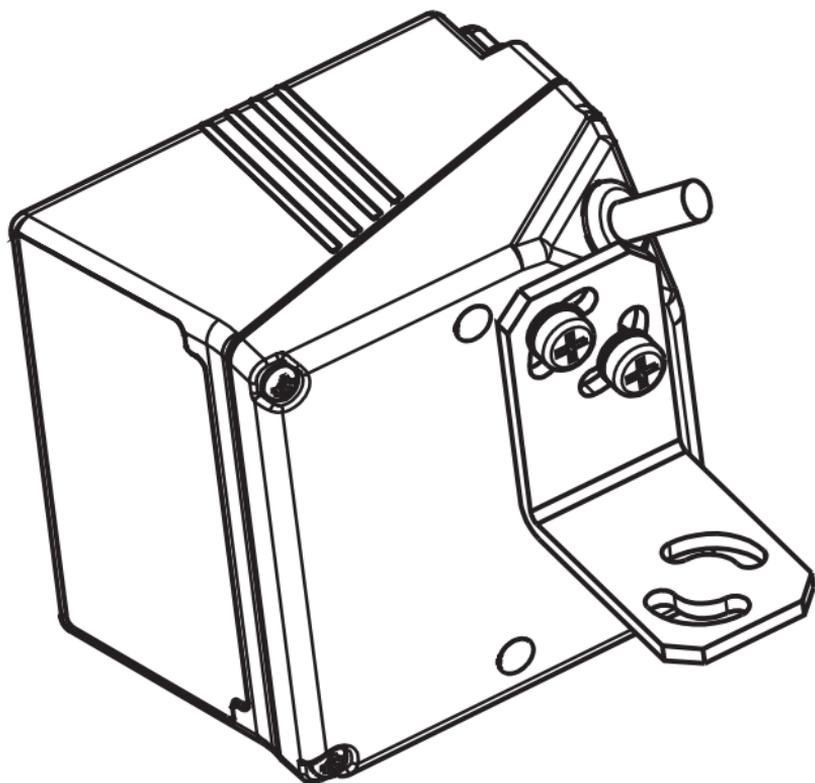
## Mounting Bracket

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**



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## 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.

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## Operating Modes (continued)



Operating Mode = On Line



Operating Mode = Automatic



Operating Mode = Automatic (Object Sense)

## Exposure Modes



Continuous



Strobed

## Technical Features

| Item                                       | Description   |
|--|---|
| <b>Physical Characteristics</b>            |   |
| <b>Color</b>                               | Grey  |
| <b>Dimensions</b>                          | Height 1.54" / 39mm<br>Length 2.24" / 57mm<br>Width 2.28" / 58 mm               |
| <b>Weight (without cable and brackets)</b> | USB model - Approx. 5.0 ounces/140 g<br>RS-232 model - approx. 6.0 ounces/170 g |
| <b>Electrical Characteristics</b>          |   |
| <b>Input Voltage</b>                       | 5 VDC $\pm$ 5%  |
| <b>External Trigger Input</b>              | 5 $\div$ 30 VDC (Only GFS4150-9)  |
| <b>Output</b>                              | V <sub>max</sub> = 30VDC (Only GFS4150-9)                                       |
| <b>Current &amp; Power Consumption</b>     | Input current at 5V = 390 mA (max)<br><2.5 mA (GFS4170 model in USB suspend)    |
| <b>Performance Characteristics</b>         |   |
| <b>Scan rate</b>                           | 320 scans/s (max)   |
| <b>Light Source</b>                        | Dual LEDs (Red Light, $\lambda$ =620 nm)  |
| <b>Roll Angle Tolerance</b>                | $\pm$ 35°   |
| <b>Pitch Angle Tolerance</b>               | $\pm$ 65° (Avoid zero angle, $\pm$ 6°)  |
| <b>Skew Angle Tolerance</b>                | $\pm$ 65°   |

| Item                            | Description   |
|---------------------------------|---|
| <b>Depth of Field (Typical)</b> | 5 mil - 2" to 6.3" (5cm to 16cm)<br>8 mil - 1.2" to 10.6" (3cm to 27cm)<br>13 mil* - 1.2" to 15.7" (3cm to 40 cm)<br>20 mil - up to 23.6" (up to 60 cm)   |
| <b>Minimum Element Width</b>    | 3 mil   |
| <b>Print Contrast Minimum</b>   | 15% minimum reflectance   |
| <b>Decode Capability</b>        | 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). |
| <b>Interfaces Supported</b>     | GFS4150-9 model: RS-232 Standard<br>GFS4170 model:USB COM Standard, USB Keyboard  |
| <b>User Environment</b>         |   |
| <b>Operative Temperature</b>    | 32° to 122° F (0° to 50° C)   |
| <b>Storage Temperature</b>      | -13° to 158° F (-25° to 70° C)  |
| <b>Humidity</b>                 | Operating: 5% to 90% relative humidity, non condensing  |
| <b>Drop specifications</b>      | 5 drops from 30 inches (0.76 mt.) to concrete   |
| <b>Ambient Light immunity</b>   | Up to 100,000 Lux   |

| Item                      | Description   |
|---------------------------|---|
| <b>Contaminants</b>       | IP54  |
| <b>ESD Level</b>          | 16 KV   |
| <b>Regulatory</b>         |   |
| <b>Led Emission Class</b> | (IEC-62471:2006-07) Exempt (No Risk)  |
| <b>Electrical Safety</b>  | IEC 60950-1 , CAN/CSA-C22.2 No. 60950-1-03; UL 60950-1  |
| <b>EMI/RFI</b>            | North America (FCC) : Part 15 Class B, Canada ( IC ) : ICES-003 Class B, European Union EMC Directive, Australian (C-tick), Russia (Gost) |

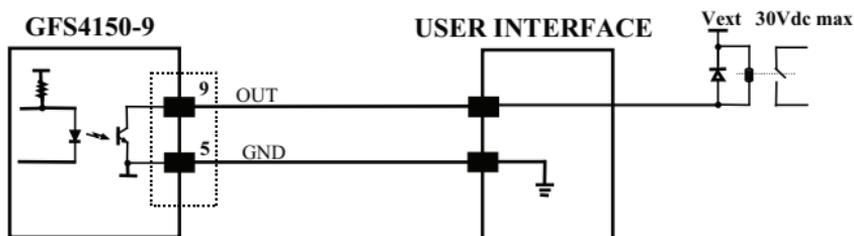
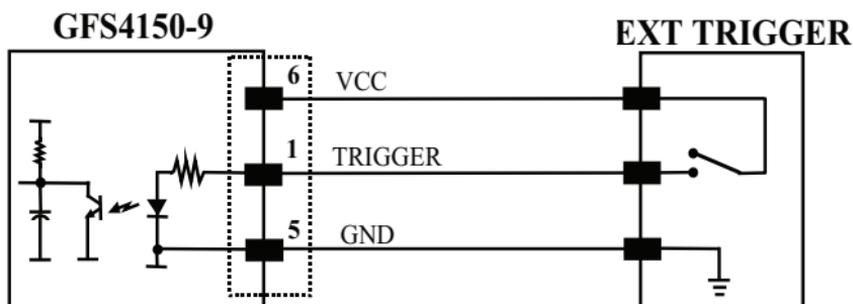
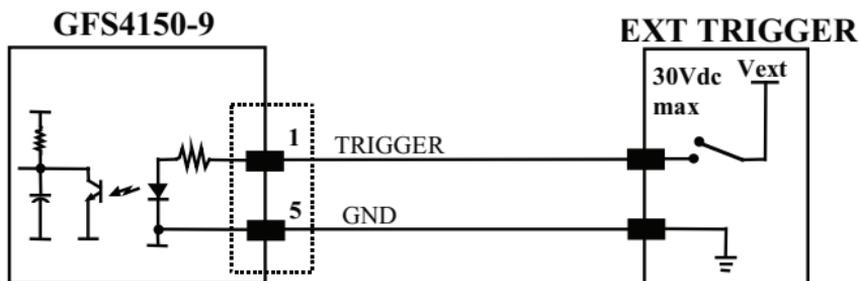
\* (13 mils DOF based on EAN. All others are Code 39. All labels grade A, minimum illumination 100 lux, 20°C, label inclination 10°, static reading).

## RS-232 Electrical Connections

### 9-pin connector

|   |         |   |
|---|---------|---|
| 1 | Trigger | Trigger signal input (see <a href="#">Figure 4</a> and <a href="#">Figure 5</a> 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 <a href="#">Figure 3</a> )   |

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

## Ergonomic Recommendations



**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.**

**CAUTION**

- 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

Labels are shown here to illustrate their location only. Please view the labels on your product for actual details.



**Waste Electrical and Electronic Equipment (WEEE) Statement****English**

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

**Italian**

Per informazioni sullo smaltimento delle apparecchiature elettriche ed elettroniche consultare il sito Web [www.scanning.datalogic.com](http://www.scanning.datalogic.com).

**French**

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

**German**

Informationen zur Entsorgung von Elektro- und Elektronik- Altgeräten (WEEE) erhalten Sie auf der Webseite [www.scanning.datalogic.com](http://www.scanning.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.scanning.datalogic.com](http://www.scanning.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.scanning.datalogic.com](http://www.scanning.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: <http://www.scanning.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.scanning.datalogic.com](http://www.scanning.datalogic.com) をご参照下さい。

## Warranty

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. This warranty does not extend to batteries and cables. As consumable items batteries and cables carry a 90 day warranty from time of purchase for DOA (dead on arrival) defects. In order to obtain service under this Warranty, Customer must notify Datalogic of the claimed defect before the expiration of the Warranty period and obtain from Datalogic a return authorization number for return of the product to 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.

Warranty is subject to the limitations and exclusions set forth in the paragraphs that follow.

WARRANTY SET FORTH ABOVE IS IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY AND FITNESS.

## Exclusions

Warranty coverage shall not apply to any claimed defect, failure or damage which Datalogic determines was caused by: improper use of product; failure to provide product maintenance, including but not limited to cleaning of the upper window in accordance with product manual; installation or service of product by other than Datalogic representatives; use of product with any other instrument, equipment or apparatus; modification or alteration of product. External cables and replacement of upper window/cartridge due to scratching, stains or other degradation will not be covered under the Warranty. External power supplies returned for service must be accompanied by the original product for performance of service.

## Limitation of Liability

Datalogic's REPAIR OR REPLACEMENT OF DEFECTIVE PRODUCT AS SET FORTH ABOVE IS THE CUSTOMER'S SOLE AND EXCLUSIVE REMEDY ON ACCOUNT OF CLAIMS OF BREACH OF WARRANTY OR PRODUCT DEFECT. 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.

## Assignment

Customer may not assign or otherwise transfer its rights or obligations under 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.

## 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 or product being returned to Customer by Datalogic, except such loss or damage as may be caused by the negligence of Customer, its agents or employees. 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.

# NOTES



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

*dichiara che*  
*declares that the*  
*déclare que le*  
*bescheinigt, daß das Gerät*  
*declare que el*

**Gryphon 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**

*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.*

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*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 B ITE), SEPTEMBER 2006:

*LIMITS AND METHODS OF MEASUREMENTS OF RADIO DISTURBANCE CHARACTERISTICS OF INFORMATION TECHNOLOGY EQUIPMENTS*EN 55024, SEPTEMBER 1998:  
AMENDMENT A1:2001+A2:2003*INFORMATION TECHNOLOGY EQUIPMENT  
IMMUNITY CHARACTERISTICS  
LIMITS AND METHODS OF MEASUREMENT*

Lippo di Calderara, November 9th, 2010

Ruggero Cacioppo  
Quality Assurance Manager

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