

**GALILEO *PLUS***  
**&**  
**GALILEO *USB***

**digicom**

**USER'S MANUAL**  
rev. 2.0 04/98



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## PRECAUTIONARY MEASURES

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*Every possible care has been taken in testing and putting together all the documentation contained in this booklet, however Digicom can not take any responsibility brought by the use of this booklet.*

The following instructions must be followed during installation, in order to guarantee the users safety and ensure good working of the product:

### Required Environmental Conditions:

#### Room Temperature

from -5 to +45 °C

#### Relative Humidity

from 20% to 80% non condensing.

Avoid rapid changes in temperature and humidity (0,03°C/min.)

The product and all cables must be installed in a place free of:

- Dust, humidity, high temperatures and direct exposure to sunlight.
- Liquids or corrosive chemical substances

The product and cables must not be placed close to:

- Objects emitting heat. Such heat may damage the box or cause other problems.
- Objects generating a strong electro-magnetic field (e.g. Hi-Fi speakers etc.)

To clean the box use a dry, soft cloth. Dampen the cloth with water to remove any stains.

Never use insecticides or chemical products such as gasoline.

Take care to avoid subjecting the product to heavy vibrations or crashes.

## 1. GENERAL REMARKS

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This user's manual describes the functioning of the video-conferencing and video-telephony system GALILEO, when used with a computer running Windows 95 and NT.

Galileo's applications are countless, including both personal and business use. It is a solution within the reach of everybody to achieve videocommunication through the Internet or other means such as point-to-point connections on the PSTN or ISDN, Local or Wide Area Networks with TCP/IP protocol.



Galileo allows connectivity to one of the above networks, i.e. an analog modem, an isdn modem or terminal adapter, or an ethernet card or token ring card or similar for connection to a LAN.

### 1.1. PRODUCT DESCRIPTION

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Inside Galileo's package you will find the following:

- a) a high definition colour digital camera to be connected to your pc parallel port (Galileo Plus) or USB port (Galileo USB).

**Note:**

***Note that the parallel port must be bi-directional. (for some years personal computers have been thus equipped.) If the parallel port is already used by a printer you should purchase an additional parallel port card, configure it as LPT2 and connect the printer to it. Such cards are low in cost and are available from most computer re-sellers.***

- b) a CD ROM with the software drivers for Windows 95 and NT enabling a frame captured by the camera to be used by application programs in conformity with Video For Windows standards.
- c) inside the CD you will find Microsoft NetMeeting. This software allows the management of video-conferencing or video-phone applications, and it complies with the following means of communication:
  - connections through Internet in dial-up mode with SLIP or PPP protocol via modem or ISDN

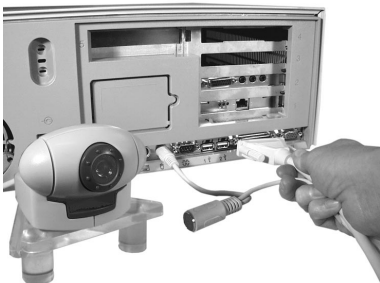
- connections through Internet in leased line mode with routers
  - connections through Internet in ISDN mode with ISDN routers
  - local area networks with TCP/IP protocol inside business buildings and in a campus environment
  - wide area networks consisting of LANs interconnected with TCP/IP protocol geographically, with bridges/routers on different lines. (These are usually already installed for normal business data transmission.
- d) a cable to use power from the mouse port of the PC for the camera. (Galileo plus version only).
- e) another cable for the alternative use of the keyboard port for the same purpose. (Galileo Plus version only).
- f) an USB cable to connect the videocamera to the USB port.
- g) a stereo audio headset with microphone incorporated to be used if required. It is foreseen that most frequently Galileo will be used in conjunction with external speakers and a microphone or with multimedia video monitors. These devices are usually supplied with audio cards and are inexpensive. The headset with microphone included with Galileo is not just for convenience. It allows a much greater degree of privacy. In addition, for users operating with SVD modems (simultaneous voice & data for applications such as tele-maintenance or tele-instruction to closed user groups, etc...) the headset with microphone can be a useful and practical device.
- All the hardware components of Galileo can be used with other software applications managing digitalized images in Video For Windows format with the input/output device on a parallel port, for example Microsoft NetMeeting, Intel VideoPhone, CuSeeMe, Enhanced CuSeeMe...

## 1.2. INSTALLATION

To install Galileo proceed as follows:

- 1) Turn off the PC and disconnect from the power supply socket.
- 2) Open the box of Galileo and remove the components from their packaging.

- 3) If your pc has a mouse bus port (the one with a microdin connector) use this one for the power supply of the digital camera, otherwise use the keyboard port and use the appropriate cable adapter provided. Connect the adapter you chose to your PC port. These two adapters are equipped with a male connector to be inserted into the pc jack and with a female connector to re-connect the mouse or the keyboard. Use this female connector to re-connect the chosen device.



- 4) Connect the videocamera to your PC USB port using the special cable supplied into the package.



- 5) Put the camera on the monitor of your PC.

- 6) Open the lens of the camera and turn the camera upwards.

- 7) Take the cable of Galileo's digital camera and connect the parallel port adapter to the parallel port of your PC. This parallel port must be bi-directional EPP (enhanced parallel port) or ECP (enhanced capabilities port).

If the parallel port is used for connection of a printer, it is necessary to buy a parallel port switch or an additional parallel port card configured as LPT2, in order to connect the printer again. (Do not use an electronic double of LPTxx port to avoid any possible contention of IRQ and I/O addresses and software/hardware incompatibility with a double electronic switch.

- 8) Now you can switch on your personal computer to install the camera drivers and the software. Be sure that the audio device (Sound Blaster or similar) is installed and in working order and the speakers and microphone or the headset with microphone supplied with Galileo are connected to it. At this point the hardware installation of GALILEO is completed.
- 9) Insert the DRIVER diskette into the floppy drive and select the directory of your product and operating system (Win95 or NT). Run the program stored on the diskette. At this point, follow the procedure to install the drivers.
- 10) You are ready to install the videoconferencing software. Follow the installation instructions you find into the software inside the package.



**Note:** *Galileo Plus and Galileo USB can be used with the videoconferencing software using the Video for Windows format for the management of the videocamera. (i.e. Microsoft NetMeeting, VDOPhone, VideoLink, ecc.)*

### 1.3. UPGRADE

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For any information concerning new drivers, you can connect to our web site at <http://www.digicom.it>

As for upgrades concerning the videoconferencing software, connect to the software manufacturer website.

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## DECLARATION OF CONFORMITY

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**Digicom S.p.A. via Alessandro Volta 39 21010 Cardano al Campo -Varese-**  
declares that this product satisfies the basic requirements of  
Electromagnetic Compatibility and Safety of the below indicated Directive:

- **89/336/EEC** of 3 may 1989 with subsequent modifications (Directive 92/31/EEC of april 28, 1992, Directive 93/68/EEC of july 22,1993 and Directive 93/97/EEC of 29 october 1993).

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## WARRANTY

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### WARRANTY CLAUSES

- The equipment has a warranty which covers manufacturing and operating faults for the period indicated on the inside back cover of the user's manual.
- The warranty is to be considered freight forward and the goods must reach the address indicated below at customer's expences.
- Warranty means the substitution or repairing of fault products. Working hours used for repairing included in the warranty.
- The estetic and the separable parts are not included in the warranty.
- The warranty is not extended to equipments which have been subject to misuse, improper installation, electric discharge or repaired by unauthorized staff.

