

G@VI USER'S MANUAL

PERSONAL COMPUTER

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1. INTRODUCTION

The right choice

Shall we thank our Customer for the trust in Impex Italia, while having chosen a G@VI computer.

Impex Italia rigorously tests every personal computer for granting its quality and stands for high reliability, along with the speed and power requested for the operative systems.

- The G@vi products comply with the EPA Energy Star standards. They take the greatest technology advantage for the lowest use of energy and they reduce the system input, improving the management costs while reducing unnecessary waste of energy.
- The latest PCI, AGP AND PLUG & PLAY structures offer a system, simple to use, at a low cost against high performances.
- The new MMX technology of the Pentium Processors made by Intel and compatible one, it is possible to use every kind of software created for the different operative systems (Windows 98, Windows NT, Unix, Novell, OS/2, etc...) and have a free access to the wide range of products available in the market.
- The Pentium Pro TM and Pentium IITM processors offer the highest performance to the 32 Bit operative systems, keeping the compatibility with the 16 bit applicative systems.

**ALWAYS READ THE MANUAL BEFORE USING THE COMPUTER.
SHALL YOU REQUIRE MORE INFORMATIONS, PLEASE GO THROUGH
THE MANUAL OR THE GUIDE-ON-LINE OF THE OPERATIVE SYSTEM.**

Before starting

Before installing the computer, check the availability of the system's main components:

1. Central Unit
2. Support-base (for the Electa set, only)
3. Keyboard
4. Box containing:
power-supply cable, mouse, user's manual and licence Window 98 or Windows Nt (when included) along with CD-ROM, manuals and driver-disks for the installed peripherals.

This list is submitted to changes according to the computer model.

How to use the manual

The user's manual is subdivided into 6 Chapters:

1. Introduction
2. Installation
3. Connections
4. System Set-up
5. Upgrading and Maintenance
6. Specifications and advice
7. Certifications.

Carefully read the complete manual particularly where you see symbols or words in bold, as follows:

- ① very important information
- ⊖ Information or instruction of main importance.

Carefully read this manual to avoid accident or damages to the computer or to its devices.

Some procedures foresee to press at the same time one or more keys, in this case it appears a “+” symbol among the keys, for instance: you shall press the keys <Ctrl>+<Alt>+<Delete> to reset the system.

This manual refers to both G@vi models.

You find the purchased computer model reading the label placed on the rear of the Personal Computer.

G@VI ENTRY AT

- 10 cd-rom unit
- 09 floppy unit
- 08 switch-on
- 12 switch for reset
- 13 Power supply led (green led)
- 14 Hard-disk led (red led)

- 07 network(system) plug
- 03 Serial ports
- 04 Printer port

- 05 VGA connector
- 02 Mouse port
- 01 Keyboard DIN

G@VI ELECTA AT

CD ROM UNIT	10
Floppy unit	09
Switch-on button	08
Power supply led (green led)	13
Hard-disk-Led	14
Reset-button	12

Main power connector 220V	07
Voltage selector	11
Serial Ports	03
Keyboard port	01
Mouse port	02
Parallel port	04
VGA Connector	05

G@VI ELECTA AT

CD-ROM UNIT	10
FLOPPY UNIT	09
SWITCH-ON BUTTON	08
POWER LED (GREEN)	13
HDD LED	14
RESET-BUTTON	12

MAIN POWER CONNECTOR	07
VOLTAGE SELECTOR	11
SERIAL PORTS	03
PARALLEL PORT	04
VGA CONNECTOR	05
KEYBOARD PORT	01
MOUSE PORT	

G@VI ELECTA ATX

CD-ROM UNIT	10
SWITCH-ON BUTTON	08
FLOPPY UNIT	09
HDD LED (RED)	14
RESET-BUTTON	12
POWER LED (GREEN)	13

MAIN POWER CONNECTOR	07
VOLTAGE SELECTOR	11
KEYBOARD PORT MINI DIN	01
MOUSE PORT	02
USB PORT	06
PRINTER PORT	04
VGA VIDEO CONNECTOR	05
SERIAL PORTS	03

Oi features changes upon case model (minitower or desk top); pay attention to the form and the model of the connector, because their position could change.

g@vi ELECTA ATX

CD-ROM Unit	10
Switch-on-button	08
Floppy unit	09
Hard-disk-Led (red led)	14
Reset-button	12
Power-led (green led)	13
Main power connector 220V	07
Voltage selector	11
Keyboard-port	01
MiniDin	
Mouse-Port	02
USB-port	06
Printer-port	04
Connector for VGA Video	05
Serial-ports	03

● The features can vary depending on the model (Minitower or Desktop) , pay attention to the form and model of the connector, as their position should change.

2. INSTALLATION

In this chapter you find the instructions for installing and connecting the computer. You shall be operative by simply having a sufficient ability of the operative systems and by following these directions.

(-) BEFORE CONNECTING ANY DEVICE, BE SURE THAT THE COMPUTER IS SWITCHED-OFF.

Connection made with computer on shall damage the computer or the card to be put in connection with.

The PC'S Right Location

To assure the PC a correct operation and to avoid risks for the users, the working station receiving the computer must comply with the following electrical and environmental requirements.

Electrical Requirements

(-) The power plug has to be provided with ground connection.

Assure sufficient space between the power plug and the system board, so that it is easy to disconnect the cable, when switching off the computer.

The ON/OFF power-switch is used for operative purposes only.

In case of maintenance or inspection of the computer always remember to disconnect it from the electric system.

Beware of interferences at the electric system: the most common source of interferences are:

Fans and air-conditioners

Equipment with powerful electrical-engines

Copiers

Radio-TV-broadcasting-stations and all sort of signal generators'.

High frequency safety devices.

Small calculators and other office-machines or household appliances shall be connected to the same power-line.

Use the cables given with the computer or cables conform to the pertaining standards (IMQ or equivalent).

Shall you find difficulties in connecting the connector-plug, do not force it, but check if adapters shall apply.

Disregard the use of multiple adapters, cords or adapters not complying with the standards, always check that in the equipment connected to the plugs the range is at 15 A.

Environmental Requirements

- ① Place the computer in a clean and not dusty place.
- ① The temperature and humidity degree have to meet the standard degree required.
Keep the computer away from central-heaters or windows,
Changes of temperature may damage the components.
- ① Keep the computer in an aerated room.
Cooling fans are fitted in the computer to avoid overheating of the System and components.
It is therefore important to check that the fan grid is clean.
The system must have a space of at least 20 cms in the rear, 5 cms On the top and on the sides.
- When choosing the most possibly right computer's layout then consider where keyboard, mouse and video will be placed for using it at a natural position.
Light must not directly reach the video, because the shine should make reading difficult.

Unpacking

Keep the computer's box and its components for future transport or shipping purposes.

Along with the box it is recommended to retain the documentation and manuals related to the computer.

The Electa Tower Models are supplied with a base on which to fix the bottom of the computer with the 4 screws included in the package.

3. CONNECTIONS

Before carrying out any connection, check that the computer is OFF, by taking the plug out of the power connector.

Hereunder the most common external connection devices:

Monitor, keyboard, mouse, parallel printer, external modems and serial printers, multimedial peripherals (power speakers, microphone, joystick) etc.

We will now go through every connection according to the device which it is to be connected to.

Monitor

The computer must be OFF and Disconnected from the electric system, before connecting the monitor.

Keep the monitor at a distance of approxi 45 to 70 cms from your eyes, and check that the top of the monitor is at the same level of your eyes, or slightly underneath .

Connect the cable of the VGA Monitor to the port of the video-card on the back of the computer.

The end-connector of the cable is a 15 Db-pin male (15 pins) , so that the video port is a 15 DB-pin female connector (see connection scheme on the back of the computer, (5).

VGA Connector

Keyboard

Link the keyboard to the connector in the back of the computer.

The keyboard for the computers model ENTRY and ELECTA AT is of the DIN type and MINI-DIN for the ELECTA ATX.

(See connection scheme on the back of the computer, (1)

Keyboard connector
MINI DIN ATX

Keyboard connector
DIN

Mouse

There are two mous-models available according to the connection type, PS/2 or serial.

The PS/2 mouse is to be connected to the mouse-port located on the back of the computer, see the symbol near the connector () (2)

When the mouse is a serial one connect it directly to one of the serial ports. (see serial port connection scheme) (3).

Mouse port.

Printer

The computer has a two-directional port. The pre-setted configuration is usually selected as EPP+ECP (wide performance port) and it allows the data transmission (sending and receipt) from the computer to the external devices, for instance: printer, scanner, back-up unit, or file transferring among computers.

Use the system set-up to modify the parallel port configuration in SPP mode (Standard Parallel Port). Join the Centronic's connector of the cable to the parallel printer or other external equipment and the DB 25 (25 pin) male connector the the female connector (25 holes) on the back of the computer, see symbol near the connector. The standard value for the parallel port is LPT1; this value determines the destination of the printing process. (See connection scheme on the back of the computer) (4).

Connector for AT Printer

Connector for ATX Printer

Serial connection devices

If your equipment has to be connected through a serial interface (serial printers, modems, mouse, scanner, etc.) the connection must be made either at the DB9 (male) or the DB25 (male) serial available, usually configurated as COM1 and COM2. They can be modified by means of the computer's configuration setting-up. (See connections scheme on the back of the PC) (3).

AT Serial Port

ATX Serial Port

Multimedial Peripherals (Upon request)

Is there a sound-card in the system to get sound connect two speakers to the jack "SPK/OUT".

If you have a microphone, connect it to the jack "MIC IN" and if you have a joystick or MIDI device connect it to the port "GAME PORT/MIDI".

For further informations look at the section audio-cards of the manual.

Connection of the Power-cords

⊖ Before connecting the power cord to the computer, check that the voltage selector (11) is rightly set-up (230V).

The voltage selector is on the back of the computer near the power plug, on the power supply.

In Europe the voltage is at 220V, while in USA or Canada is at 110V. In case of use outside the European countries, remember to place the selector on the appropriate voltage.

⊖ A wrong selection of the voltage could seriously damage the system and cause current-shock.

By means of the power cable supplied with the computer connect the female connector to the male Jack, on the back of the computer and the three-pole-plug of the cable to a wall socket connected to the earth.

A stabilized UPS unit is recommended to avoid systems damages due to boost or electrical system's discharge and to avoid loss of data.

Impex Italia has certified some UPS units for the G@VI PC. For informations contact authorized Resellers or Impex Italia.

Connection Scheme on the back of the computer and voltage selectors.

Voltage selector

4. SYSTEM SET-UP

This chapter explains the use of keys, switches, leds, hard-disks, cd-rom, floppy-drive e keyboard.

Frontal Panel

The frontal panel of the computer houses several switches and leds:

- . Switch-on button (8), for switching-off/on the central unit.
- . Reset-button (12), for re-starting the system without switching off the computer.
- . Power-led (green led) (13), it lights up when computer is on.
- . Hard-disk led (red led) (14), it lights up when the hard-disk is reading or writing.

FRONTAL PANEL

ENTRY MODEL

FRONTAL PANEL

ELECTA AT MODEL

FRONTAL PANEL

ELECTA ATX Model

Hard-Disk Unit

It is safely sealed and fixed in the computer, it therefore needs no particular maintenance.

The Hard-disk of the system is normally configurated and formatted by the manufacturer, when not, or a second hard-disk is required, carefully read the instructions attached to the disk, or directly contact a [G@vi](#) Reseller.

An EIDE (Enhanced Integrated Drive Electronic) controller built in the mother-board supports up to four unit type IDE or EIDE (hard-disks, Cd-Rom unit, Backup): two on the primary bus and two on the secondary bus.

Shall you put in a different HDD type (i.e. SCSI), you preferably install a new controller card, too.

For more informations about the mother-board installed read the instructions.

CD-ROM Unit (upon request)

- i When the computer is provided with a CD-ROM unit please always follow up the following recommendations:

The CD-Rom unit must be horizontally placed and the CD-tray shall assure an easy ejection.

Check that the HDD-tray is free.

Do not push nor turn the tray down while introducing or drawing the disk out.

Directions for introducing the CD-Rom Unit into the tray:

The computer must be on, press the pull-out button on the frontal panel of the CD-ROM Unit, put the disk in the centre of the tray with side-up label, press the pull-out button once again or gently push the tray in order to close the unit.

Same operations, but the way round, for drawing-out the disk.

- 1 Jack-headphone for connecting headphones with a 3,5 mm stero-jack
- 2 Low-down Volume's button (button or alike)
- 3 Volume-Up's Button (button or alike)
- 4 Disk-tray to insert or eject disk
- 5 Emergency ejection for manual draw-out of the disk-tray using appropriate device. Operate with COMPUTER OFF.
- 6 Access-led (busy) lights on when reading data from CD
- 7 Ejection button pulls the CD tray out of the unit or close the unit tray.

Follow-up the following instructions to keep the CD-ROM in good conditions :

- do not hit nor let the CD fall down
- do not bend or enlarge the central hole of the CD
- keep the CD away from high temperatures or from the direct sun light
- do not touch the surface and handle it with finger tips
- to clean the CD use a cleaning kit or a dry and clean cloth, startting from the center to the end of the CD.
- when not in use, keep it in its box.

Floppy Unit

The unit is provided with a high density floppy unit at 3.5" and 1,44 Mb, for reading and writing; floppy disk at 720Kb and 1,44Mb.

It is possible to install a 2,88 Mb unit and the latest high capacity drive at 120 Mb (LS)

The picture shows: (1) the busy-led which lights up during reading or writing on floppy drive and (2) the floppy ejection button.

Qi To avoid damages to the floppy disks remember to:

- 1) never draw out CD when the drive's busy led lits up
- 2) keep disks in their box to preserve them from dirty
- 3) keep disks away from magnetic sources such as phones, loudspeakers and never let them on the top of your monitor.
- 4) Avoid to place them in heat or humid places.

The keyboard

Keyboard working under Windows95 at 104 keys, with 5 keys type:

1. Letter keys
2. Numeric keys
3. Slider keys
4. Function Keys
5. Special Keys
6. Windows 95 function Keys

The keys for letter, numbers and slider are like those of a normal typing machine; the functions keys (F, F2.....F12) have different functions and use according to the software employed.

For instance: F1 key, when working under Windows is an on-line helping key; F3 key, when working under DOS, re-writes the last digitized control;

It is therefore suggested to refer to the specific software user's guide.

A particular attention is to be paid to the special keys for the useful operations they allow, some of which are given hereunder.

ESC its functions changes depending on the software employed.
It generally allows to come back to the main menu of the different under-Menus.

PRINT **(Print screen)**
Printing of the video's content

SCROLL
LOCK related to the programme in use, you can scroll datas on video

PAUSE stops the video text's consulting. Press any key to continue reading.

The special keys at the side of the numeric keyboard: INS, END, DEL, PGUP, PGDN, and the four directions keys are used for shifting from one page or document or database to another.

WIN95 Keys: they are aside the space bar; the right key opens the advanced menu, the link key opens the starting menu.

Further informations are to be found in the Windows95 guide.

5. UPGRADING AND MAINTENANCE

Internal Installation

Shall you have to fit-up the computer with optional components (i.e.: RAM memories, optional units for disks or additional cards), it is recommended to apply to Authorized G@VI Resellers or to qualified centres, because it is necessary to take the computer's case out; nevertheless, if you wish to upgrade your computer, you have to strictly keep to the under mentioned disassembling and assembling procedures, in order to avoid risks and damages to the computer.

- i Switch the computer off and unplug the power supply cable.
Take all the cables out of the computer's rear panel.
Before installing or moving the printed-circuit cards, computers' components, integrated devices or other electrical devices, get in touch with a metal surface, i.e. the computer's frame, to avoid electrostatic charges which could damage the components.

Removal and Reinstalling of the external covering

To remove the computer's covering unscrew the 4 fixing screws on the rear of the computer, pull the cover backwards by lifting it up and carefully getting it out of the way.

To reinstall the covering act exactly the way round and be carefull that nothing (cables, devices, etc.) is left out.

Properly fix the covering, making yourself sure of its perfect sealing.

The computer must only work when closed and fixed. In case of damage to the covering or of defective sealing, get in contact with your Reseller for aid.

DEVICES' INSTALLATION

It is possible to add or change different devices to improve and tailor the system up to one's need.

ISA or PCI cards shall be installed, as well as advanced-graphic-accelerator, net cards, internal modems, audio-cards, SCSI cards, etc.

It is possible to add or change internal peripherals or external such as hard-disks, CD-Roms, floppy-unit, backups; it is also possible to extend memory (RAM) and the system's microprocessor.

Always refer to the device's instructions for installing card and peripherals, and, if necessary, contact the technical service of the Reseller.

If you want to extend the system's memory, you have to consider the installed memory, type and speed of the memory itself.

For more detailed and technical informations, contact your G@vi Reseller or read the card-system's manual of the computer.

To update your microprocessor (CPU) get in contact with the G@vi Reseller or read the card system's manual in order to identify which processor is compatible with your computer.

Once you have find out the CPU you shall start upgrading by following the instructions given on the mother-board's manual (CPU connection, bus frequency, voltage)

Oi **CONSULT YOUR OWN RESELLER FOR THIS KIND OF OPERATIONS.**

6. SPECIFICATIONS AND ADVICE

O- User's Safety

- . Do not operate on the computer's areas reserved to the installation of additional parts or not clearly mentioned in the documentation.
- . Keep computer away from fluids.
- . Disconnect the computer, before cleaning it.
- . When disconnecting the computer, do not only press the switch-off button, but disconnect the power supply cable's plug from the power plug.
- . Before carrying out any operation inside the computer, be sure that the peripherals devices as monitors and printers are disconnected.

O- Safety and Maintenance of the Computer

Gravvi computer's realization and planning stands for reliability and endurance.

We also recommend a regular maintenance and cleaning.

- . Do not use the computer over or near heating sources (i.e. radiators)
- . Before cleaning the computer, disconnect it from the power-line; for cleaning use a damp cloth, avoid corrosive liquids or solvents.
- . Take care that computer does not store much dust up, particularly in the rear panel housing the fan's cooling openings, in the front panel (if available) remove the (strainer) filter and clean it.
- . Carry out maintenance only at those computer's components clearly mentioned in the pertaining literature.
- . Do not touch with fingers the computer's connectors or pins nor optional devices, as it would change the electrical resistance of the contacts.
- . Avoid that the computer and its accessories (disks, cards, etc.) get in touch with liquids or dust .
- . To protect the computer against virus never carry out boot-strap from diskettes the origin of which is not certified.

Do not use programme of unknown or doubtful origin.

- . Protect disks and cards against heating sources or magnetic fields.
- . To avoid damages caused by high voltage, it is recommended the use of a stabilized UPS unit (contact Impex Italia for more informations) either for the computer and for the main peripheral devices such as monitor and printer.
- . Do not disconnect the power cable or the plug, when the system is on, otherwise remember to stop the system.

7. CERTIFICATIONS

Safety Approvals and Radio Interferences

This equipment meets the relevant requirements of the Electromagnetic Compatibility and Safety as per following Directives:

- . 89/336/EEC 3.05.1989 and further amendments thereto (92/31/EEC Directive dated 28.04.1992 and 93/68/EEC Directive dated 22.07.1993);
- . 73/23/EEC 19.02.1973 and further amendments thereto (93/68/EEC Directive dated 22.07.1993);

The project is carried out in conformity with the following Harmonized Standards:

- . EN 55022 Limits and methods of measurements of radio interference characteristics of information technology equipment.
- . EN 50082-1 Electromagnetic compatibility- Generic immunity standard-Part 1: Residential, commercial and light industry.
- . EN 61000-3-2 Electromagnetic compatibility (EMC)- Part 3: Limots.
- Section 2: Limits for harmonic current emissions (equipment input current 16A per phase).
- . EN 61000-3-3 Electromagnetic compatibility (EMC) – Part 3: Limits.
- Section 3: Limitation of voltage fluctuations and flicker in low-voltage supply Systems for equipment with rated current 16A.

The conformity with the above mentioned relevant requirements is certified by the CE Mark printed on the product.

We are not responsible for:

- . Unproper storage, transport, installing, or for modifications or usage made, in contrast with the directions given in the pertaining literature.
- . Use of the computer at different conditions as those mentioned in the documents.
- . reparations carried out by unauthorized personnel;
- wear damages, force-majeure and/or connection to non-original devices.

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