

User Manual

MagniLink ZIP DUO

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In the interest of continued product development, LVI reserves the right to make improvements in this manual and the products it describes at any time, without notice or obligation.

1. General information

MagniLink ZIP DUO is a video magnifier with both a reading camera and a distance camera. It is possible to fold MagniLink ZIP DUO when the system is not in use or being transported.

The screen is a 17" TFT wide-screen, integrated with the camera and the reading table.



The equipment complies with requirements for CE-approval of medical devices according to 93/42/EEG directives.

2. Safety information

MagniLink ZIP DUO is only intended for use as a reading aid in school, home or office environments.

Before connecting, check the system, the power supply and the mains cord to make sure nothing is damaged. The enclosed power supply is only intended for use with the MagniLink ZIP DUO. Never operate the MagniLink ZIP DUO if the unit has been exposed to water, rain or other liquids. Damaged mains cord or plugs may result in a shock or a fire hazard.

Do not allow anything to rest or roll over the mains cord. The power supply emits heat and must therefore not be covered.

If cleaning is required, unplug the MagniLink ZIP DUO, use a slightly damp (not wet) cloth. Only use water or some detergent specially made for cleaning monitors and computers. Do not use aerosol cleaners directly on the MagniLink ZIP DUO since it may overspray and cause an electrical shock.

When operating the reading table, do not place hands under or behind the reading table. It could get one's finger caught between the reading table and the stand or the slides. The MagniLink ZIP DUO has to be placed at least 10 cm from the edge of the table.

Warning! MagniLink ZIP DUO has a low total weight, which means that it is important to place the system correctly so it always remains stable, especially if the reading table is in its most extended position. An overload in this position may cause the system to turn over which could lead to personal injuries.

If the MagniLink ZIP DUO is to be transported, do not lift the unit by the screen or the reading table, as they are movable parts. When folding or unfolding the product make sure that both push-pull buttons at the joint are in their inner position. Be careful not to squeeze your fingers when folding the product.

If you are unable to restore normal operation by following the operation instructions, do not attempt any further adjustments. Unplug the set and call your dealer or service technician. Only use replacement parts specified by LVI.

If you are unsure, contact your dealer or service technician.



Warning! Plastic bags in the packing material can be dangerous. To avoid danger or suffocation keep bags away from babies and children.

To prevent fire or shock hazard, do not expose the equipment to rain or moisture.

To reduce the risk of electric shock, do not remove the cover. No user serviceable parts inside. Refer service to qualified service personal.

3. Unpacking

The equipment is delivered in two boxes containing the video magnifier (reading camera and distance camera), the power supply, the footswitch, the carrying case and the user's manual.



Inspect the package for exterior damages. Note that severe damages should be directed to the transport company.

Open the box and take out the carrying case that contains MagniLink ZIP DUO. Remove the packaging and place the carrying case on the table with the LVI logotype facing up. Open the zipper and release straps. Lift the unit from the carrying case by holding the round bar closest to the screen. Place the system on a table and remove packaging between the screen and the reading table. Power supply and mains cord are placed in the side pockets of the carrying case.

See the section "Installation" for unfolding and installation of MagniLink ZIP DUO.

3.1 Packaging

The packaging of the unit contains the following:

- cellular plastic (EPP)
- corrugated cardboard
- polyethylene (LDPE4)

LVI recommends the user to keep all packaging material, to be reused in case of future shipping.

4. Packing

(See pictures on pages 10-12, but in reverse order).

Lock the table in transport position (see page 16), then pull out the net cable, the cable for the distance camera and the cable for the footswitch. Loosen the knobs of the distance camera and remove the unit. Hold the reading camera and pull out the pull-push button at the joint closest to the screen. Fold the camera backwards until it locks. Make sure the pull-push button is in its inner position.

Grab the screen and fold it backwards as far as it goes.

Grab the screen under the front panel and hold the weight of the screen in your hand. Pull out the back pull-push button. Fold the screen and let go of the pull-push button. Keep folding the screen until it locks. Make sure the pull-push button is in its inner position. Be careful not squeeze your fingers when you fold the unit.

If the unit has to be moved or sent back, note the following:

Put cellular plastic parts or some soft material between the reading table and the screen. Put the product and power supply into your carrying case, then, put some more cellular plastic parts on the carrying case and place it in the cardboard carton.



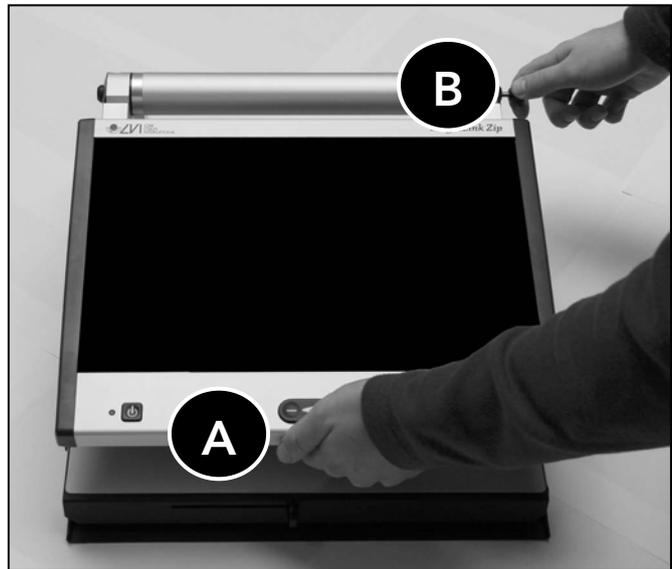
Be careful not squeeze your fingers when you fold the unit.

5. Installation

Place the unit on a table. The MagniLink ZIP DUO has to be placed at least 10 cm from the edge of the table. Notice that the system's reading table can be moved up to 30 cm in three directions. MagniLink ZIP DUO has a low total weight, which means that it is important to place the system correctly so it always remains stable, especially if the reading table is in its most extended position. An overload in this position may cause the system to turn over.

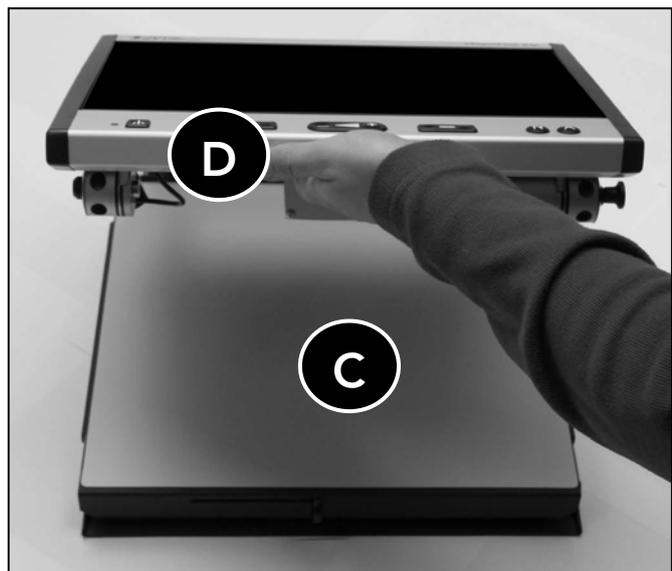
Grab the screen under the front panel (A) and lift it so you can feel the weight of the screen in your hand (the screen should not move).

Pull out the pull-push button (B) in the back of the unit and start lifting the screen, approximately 5 cm.

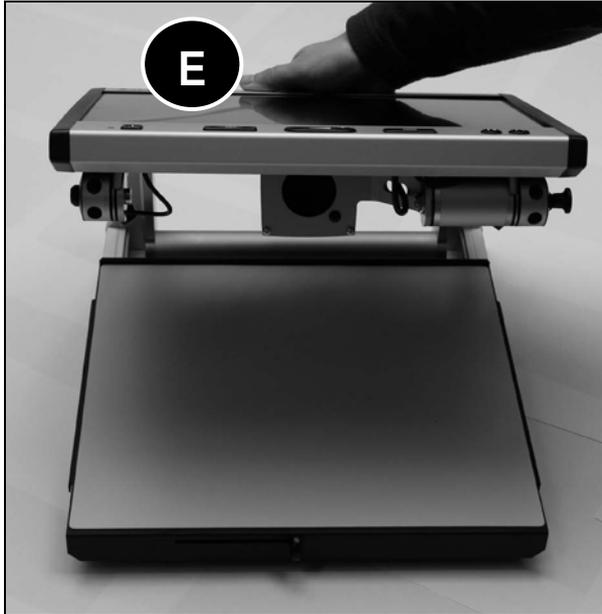


Let go of the pull-push button and continue lifting the screen (C) until it flicks on both sides. The pull-push button should be in its inner position.

If necessary, jiggle the screen up and down (D) until it comes to the right position. The arms are now in their upfolded position.

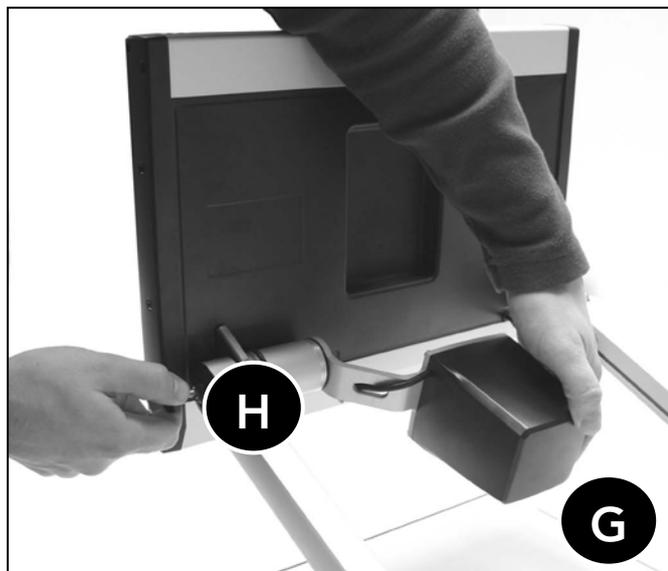


Take the screen (E) and tilt it towards you until it stands in a vertical position (F). The screen is now in its upfolded position.



The camera is placed at the back of the screen. Lift the camera (G) so you can feel its weight in your hand (the camera should not move).

Pull out the pull-push button (H) on the side of the unit, which is placed just slightly behind the screen. Fold the camera up, approximately 5 cm, and then let go of the pull-push button. Keep on folding the camera until it flicks.



The camera is now in its top position.

Attach the distance camera on the upper aluminium profiles of the screen by using the two silver knobs (I). Tighten the knobs.

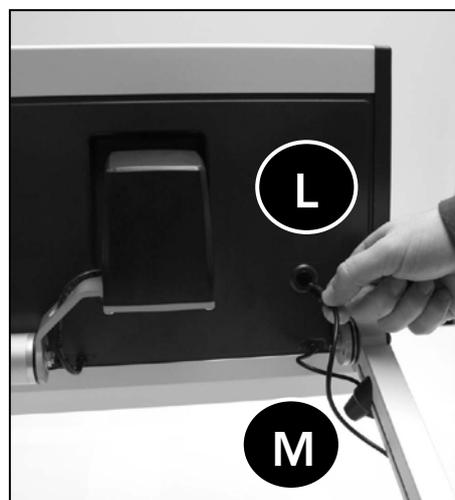
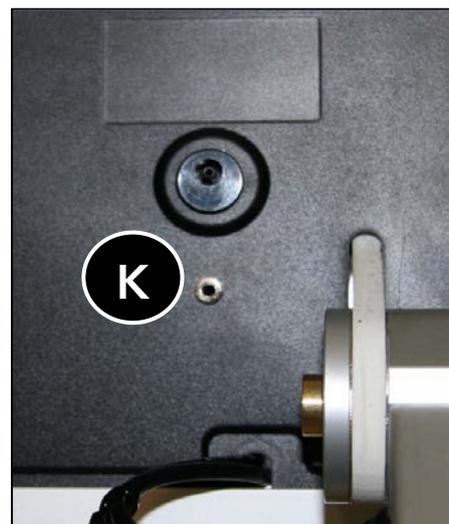
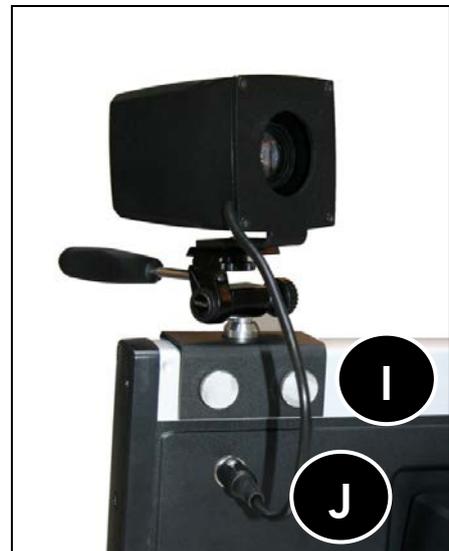
Connect the cord for the distance camera to the upper socket on the left backside of the unit (J).

Connect the footswitch to the lower socket on the right backside of the unit (K) and place the footswitch on the floor.

Connect the power supply to the connector at the back of the screen (L). Press the cable into the slit at the bottom of the arm (M). To keep the cable from pulling out when the screen is tilted, give it some length so it can stretch out sufficiently.

The power supply emits heat and must therefore not be covered.

The unit is now ready to be used. The screen can be tilted 5 degrees forward and 10 degrees backwards, counting from a vertical position. Take both sides of the screen and tilt it forward/backward to obtain the desired position.



5.1 Height adjustment (Optional)

Height adjustment of the screen is available as an option. This upgrade makes it possible to lower the screen 5 cm from the original height. To lower the screen, press down on top of the screen with one hand (F) to preferred height. To raise it, use both hands and press it upwards using the screen support as a counterstay, or fold the unit and press the bottom of the screen.

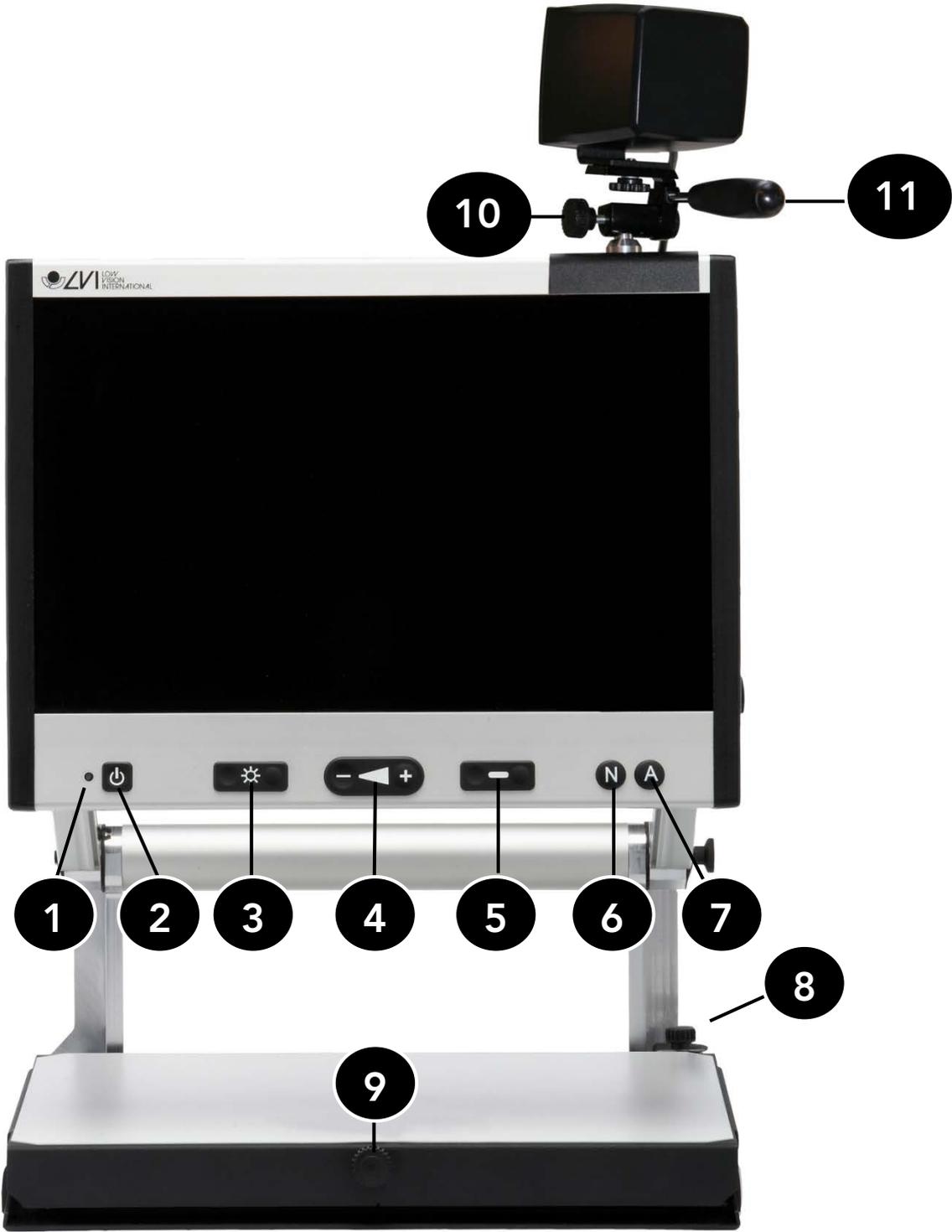
NB! To fold and transport the unit, place the screen in the highest position.

5.2 Work place

A comfortable work place around your MagniLink is important. It could be useful to keep the following in mind:

- The chair should have a back rest.
- The seat of the chair should be of a height which does not make your legs become numb.
- Let your feet rest on the floor.
- The reading table should be at a height that allows your forearm to rest horizontally on the table.
- Shield off daylight. Lights from ceiling lamps, table lamps and windows can be reflected on the monitor.

6. Overview



6.1 Features, camera unit

- 1) Led
- 2) Main switch on/off
- 3) Brightness control
- 4) Magnification lever
- 5) Control for guiding line
- 6) Button for colour picture mode
- 7) Button for high contrast mode with artificial colours
- 8) Depth direction friction adjustment
- 9) Sideway direction friction adjustment
- 10) Friction brake
- 11) Handle for control and lock

1) Led

Green light indicates that the unit is on. Red light indicates that something in the system is wrong, see section "Troubleshooting".

2) Main switch on/off

Press the button to switch on or off the unit.

3) Brightness control

By turning the control it is possible to adjust brightness. This way best readability in different situations can be achieved.

4) Magnification lever

Lever for adjustment of the magnification. To decrease the magnification, push the left side of the button and to increase the magnification, push right side of the button.

5) Control for guiding line

Controls the position of the guiding line. Press the left side of the button to move the guiding line horizontally upwards. Continue to press and the guiding line switches from horizontal to vertical position and the guiding line will be moved from right to left. The right side of the button makes the guiding line go in opposite direction.

6) Button for colour picture mode

When pushing the button it will show natural colours.

7) Button for high contrast mode with artificial colours

Press the button to switch between different combination of colours.

background / text

white / black

black / white

yellow / black

black / yellow

green / black

black / green

background / text

red / black

black / red

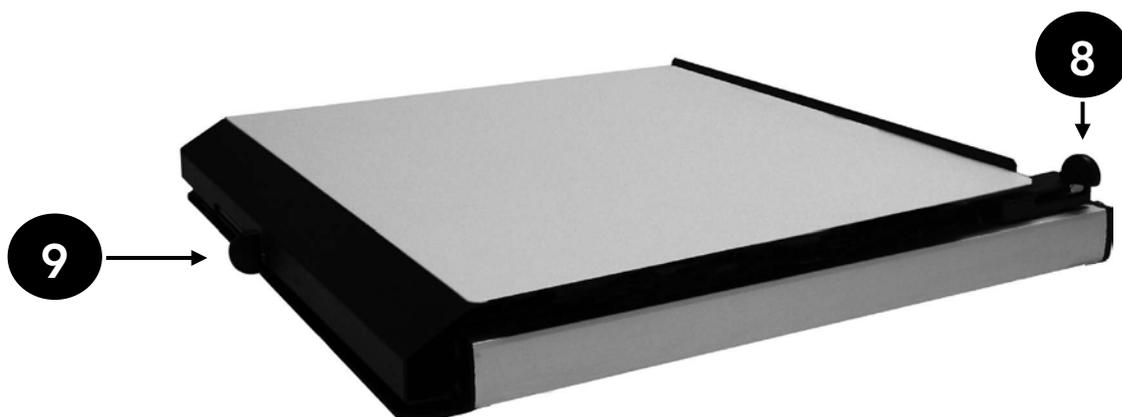
yellow / blue

blue / yellow

white / blue

blue / white

6.2 Features, reading table



8) Depthway brake

It is used to set the depthway friction.

With the brake in near end position, the reading table is unlocked.

To increase friction, push the depthway brake towards the back.

9) Sideway brake

Is used to set the sideway friction.

With the brake in the left end position, the reading table is unlocked.

To increase friction, push the sideway brake to the right.

Writing position

Place the reading table in desired position. Lock the table by pushing the sideway brake to the right end position and the depthway brake to the far end position (towards the back).

Transport position

Place the table in the middle position and push it back as far as possible. Lock the table by pushing the sideway brake.

6.3 Features, distance camera



10) Friction brake

Used to adjust the inertia of the friction of the distance camera.

11) Handle for control and lock

The control handle is used to adjust the desired inertia of the tilting of the distance camera (clockwise twist of the lever is increasing friction) and also to control the distance viewing.

6.4 Features, footswitch

Press the footswitch once to change between reading and distance mode.

7. Trouble shooting

If nothing happens when turning the system on, check that all connections are correct according to the section "Installation".

If the led to the left of the main switch is solid red, something is wrong with the equipment and it can not be used. Press once on the main switch and MagniLink ZIP DUO will make three attempts to restart. If the light still indicates a solid red, turn off the equipment and contact an authorised service technician. If the light is flashing red, it means wrong voltage from the power supply is being used.

Make sure to use the power supply that belongs to MagniLink ZIP DUO.

If the problem remains, pull out the net cable and contact an authorised service technician. Never disassemble any covers to try to repair the system yourself.

8. Technical specifications

Magnification range reading mode	2,8 - 40 x
Magnification range distance mode	0,3 - 4,5 x (3 m. distance)
Monitor	17" TFT wide-screen
Focusing distance, reading mode	0 - 55 mm (at max magnification)
Focusing distance, distance mode	1m – 00
Luminance	200 cd/m ²
Contrast	300:1
Lamp type	led
Free space distance	175 mm
Refresh rate	60 Hz
Size of reading table	390 x 350 mm (W x D)
Mains voltage	100-240 V, 50-60 Hz
Power consumption	32,5 W
Weight	9,7 kg (10 kg incl. netpower supply)
Dimensions in use	400 x 430 x 530 mm (W x D x H)
Dimensions of packing	260 x 460 x 560 mm (W x D x H)
Temperature limit	Transportation and storing -20°C to +60°C, operation +5°C to +35°C
Rel. air humidity	<80%



Disposal of old Electrical & Electronic Equipment (Applicable throughout the European Union and other European countries with separate collection programs).

Disposal of old Electrical & Electronic Equipment (Applicable throughout the European Union and other European countries with separate collection programs) This symbol, found on your product or on its packaging, indicates that this product should not be treated as household waste when you wish to dispose of it. Instead, it should be handed over to an applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences to the environment and human health, which could otherwise be caused by inappropriate disposal of this product. The recycling of materials will help to conserve natural resources. For more detailed information about the recycling of this product, please contact your local city office, household waste disposal service or the retail store where you purchased this product.

9. FCC statement (USA and Canada only).

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept interference received, including interference that may cause undesired operation.

Class B Digital Device. This equipment has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult LVI or an experienced radio/TV technician for help.

Caution to the user: The Federal Communications Commission warns the user that changes or modifications of the unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

To comply with the FCC rules the system shall only be used with the enclosed LVI power supply.

