

ClearNote

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User manual

ClearNote

Part 2

Software Installation and Instructions

Rev. 2.0, December 2005

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Every effort has been made to ensure that the information contained in this user manual is correct at the time of issue. Neither Optelec, nor its agents, assume any responsibility for errors or damages resulting from use other than described in this manual.

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1 Introduction

This software instruction manual contains the instructions on how to install and use the ClearNote software to enable you to use the ClearNote in combination with a Laptop or Desktop PC. Before installing and using the ClearNote software, please ensure that you read the ClearNote hardware manual so that you are aware of the basic functions and safety instructions of the ClearNote, before you start reading and executing the software instructions.

Using the ClearNote in combination with a PC extends the functionality and makes operation of the ClearNote possible via the computer keyboard. The installation software CD is included with your ClearNote and is suitable for use with the Windows operating system XP. The ClearNote system must be operated via a USB 2.0-Bus as a minimum.

Keep this manual in a safe place for future reference. If you have any further questions or requirements after reading this manual, do not hesitate to contact us or your local distributor.

2 General

The ClearNote enables real-time video stream to be viewed on a separate screen. The video data is processed via a USBcapable adapter using DirectShow® and DirectDraw® in the Microsoft® DirectX® library (Version 9.0c). Operation of the ClearNote is possible using the keyboard of your PC.

The following functions can be executed on the keyboard:

- Resizing and relocating the ClearNote application window in any place of your PC screen;
- Ability to view multiple windows on the screen;
- Save up to 10 pictures (images) which can be loaded instantly;
- Save more pictures on your PC as jpg-images;
- Video image adjustment: contrast, brightness, color saturation, hue;
- Image presentation adjustment (interlaced, de-interlaced);
- Switching between monochrome and color;
- View images using a range of semi-color combinations;
- Add an adjustable reading guide line to make reading text much easier;
- Defining personal preferred Hot-keys.

All ClearNote settings are stored in the configuration file "ClearNote.ini". This file can be found in the application folder C:/Program files/ClearNote.

© The **ClearNote** software is only to be used in conjunction with the hardware supplied by Optelec, member of the Tieman Group!

3 Installation

The ClearNote software CD is only required if you wish to connect the ClearNote to a PC or Laptop.

The driver software and image reproduction program must be installed on your laptop or desktop PC.

1. Switch the ClearNote off and make sure the USB cable is disconnected.
2. Insert the supplied ClearNote-CD in the CD-drive.
3. The Auto-start function should normally start the ClearNoteInstaller; If this does not occur, you can manually start the ClearNote Installer. Go to C:/My computer/ CD drive and double click the setup icon. .. Successively you will go to the screens:
 - "Choose your language". Select a language and click "Next";
 - "Welcome to Setup Wizard". Click on "Next";
 - "Installation destination selection"; Choose the destination folder and click "Next";
 - "Select Start menu folder". Click "Next";
 - "Select additional tasks". Select "Install the camera driver". Choose also your personally preferred desktop icons;
 - "Ready to install". Click on "Install";
 - "Completing Setup". Click on "Finish".
4. Now connect the USB cable to the laptop and ClearNote;
5. The screen will say "new hardware found". Install the USB driver by selecting "do not look for updates" when asked on the screen. In the next screen choose for "automatic installation of the USB driver."
6. Restart the computer after installation.
7. Switch the ClearNote on.

4 Starting the software

During installation, you can place a start-icon on your desktop and make an entry in the start menu. You can start the ClearNote software from here. When carrying out the standard installation, you will find the start-icon under C:\Program Files\ClearNote\ClearNote.exe

You can terminate the ClearNote application with “Alt+F4” or by pressing the keys “Alt+arrow down” (this opens a text menu and select “Close” with the cursor keys).

5 Important Functions

In this chapter, you learn how to use the major ClearNote software functions. This is done by “Hotkeys” on your PC. Additional functionality is included in the “Commands List” (Chapter 7).

Resizing and moving the application window

The size of the ClearNote window can be adjusted using the mouse or hotkeys. If you change the window size, you can move it to each corner of the screen pressing the “Space bar” successively.

Press “F11” to maximize the ClearNote window to full screen or to minimize the ClearNote window.

The size can be increased and decreased in small steps by pressing “Shift+arrow right” and “Shift+arrow left”.

The ClearNote window can be moved in either direction of your screen with the four arrow keys.

The ClearNote window can be placed on the foreground or background of your active applications by pressing “Alt-Tab” successively.

Reading guidance line

A reading line can be added to the ClearNote image for better orientation or as a reference line when using the ClearNote: Press “L” to add a line. If the line is visible, it can be moved up and down with “Shift+arrow up” and “Shift+arrow down”. For advanced users both the line width and the line color can be changed in the configuration file (see appendix 2).

Save images

Your ClearNote software enables you to save images.

This can be done in 2 ways:

1. Save images in “Automatic Mode”
2. Save images in “Manual Mode”

Ad 1:

Adjust the image to the size that you wish to save it in. By pressing Shift and the number keys “Shift-0/9”, you can save up to 10 images in the ClearNote installation directory. (C:\Program files\ClearNote\...) in a JPG format. These are automatically named according to the pressed number key (e.g. pic_1.jpg). These pictures will be overwritten when saving a new picture with “Shift+...”. The image can be opened with “Control+ 0/9”.

Ad 2:

Save images in a pre-defined file as .JPG (or .BMP) and name them yourself. Adjust the image to the size required and press “Contr+S”. The image can be saved in any file you wish using the standard Windows saving process and provide a name yourself. Standard settings are current date and time. In this mode multiple images can be stored. Open the stored images again with “Control+O”. By pressing “F12” the streaming video image appears again. Pressing “Shift+F12” will freeze the video image.

Image rotation

You can rotate the video image 180° by pressing the “M” key. Semi-colors You may choose to display text using a range of high-contrast semi-color combinations. These can be activated by pressing “F3”. With “Shift+F3” one can cycle through each of the 9 different foreground and background colors. The color combinations can be inverted pressing “Control+F3”.

Color and contrast of the image

In order to optimise the displayed image of the ClearNote, you can make the following adjustments:

- Increase brightness “F1”
- Reduce brightness “Shift+F1”
- Increase contrast “F2”
- Reduce contrast “Shift+F2”
- Increase color saturation “Numpad+1”
- Reduce color saturation “Numpad+2”
- Color image on ` “Numpad+3”
- Color image off “Numpad+4”
- Increase hue “Numpad+5”
- Reduce hue “Numpad+6”

6 Reset

The changed image settings can be reset to default values by pressing “Control+R”.

7 List of commands

The Hotkey control functions are referred to as “Commands”. This list enables you to gain fast access to your control commands. For experienced users, these commands can be changed in the “ClearNote.ini” file in C:/Program files/ClearNote, if required (See Appendix on the CD) . Be aware: only the default values can be changed. The PC system used defines which settings will have the best results;

| Command | Default |
|---|----------------|
| Increase the brightness | F1 |
| Reduce the brightness | SHIFT+F1 |
| Increase the contrast | F2 |
| Reduce the contrast | SHIFT+F2 |
| Increase the colour saturation | NUMPAD1 |
| Reduce the colour saturation | NUMPAD2 |
| Increase the hue | NUMPAD5 |
| Reduce the hue | NUMPAD6 |
| Reset brightness-, hue-, contrast- and colour saturation values to default | CONTROL+R |
| Activate the colour mode | NUMPAD3 |
| Activate monochrome mode | NUMPAD4 |
| Change the position of the application window over the four corners of the screen | SPACE |
| Rotate the image by 180° | M |
| Save the current image in selected directory and file (standard file selection) | CONTROL+S |
| Open a stored image of the selected directory (standard file selection dialog) | CONTROL+O |
| Save the current video image. A maximum of 10 images can be saved | SHIFT+1 |
| Load a previously saved image with a maximum of 10 images | CONTROL+1 |
| Start streaming video | F12 |

| Command | Default |
|--|----------------|
| End streaming video | SHIFT+F12 |
| Fade in/out a horizontal reference line in the window | L |
| Move horizontal line up | SHIFT+UP |
| Move horizontal line down | SHIFT+DOWN |
| Maximize or minimizes the ClearNote window | F11 |
| Increase the ClearNote window proportional to the video resolution | SHIFT+RIGHT |
| Decrease the ClearNote window proportional to the video resolution | SHIFT+LEFT |
| Move the ClearNote window to the left | LEFT |
| Move the ClearNote window to the right. | RIGHT |
| Move the ClearNote window up | UP |
| Move the ClearNote window down | DOWN |
| Activate and de-activate Semi-colours | F3 |
| Cycle through the semi-colour combinations | SHIFT+F3 |
| Invert the semi-colour combination | CONTROL+F3 |

8 ClearNote specifications

- Viewing modes
 - Full color photo mode
 - Enhanced black-on-white
 - Enhanced white-on-black
 - Semi-colors
- Magnification
 - ~ 1,7 to 57 times on a 17"screen
- Power adapter
 - 100V-240V 50/60Hz AC
 - 12V DC 2,1Amp
- Weight
 - 2700g
- Internal batteries
 - NiMH, 7x Type AAH3U
- Charge time
 - ~ 4 hours
- Continuous use
 - ~ 5 hours
- Monitor specifications
 - Compatible with video resolution of 640 x 480.
- PC Requirements
 - Minimum Pentium 1.4GHz, Windows XP, Fast VGA-Card for USB users; USB2

This product complies with the safety and EMC requirements of the directives:

EN 60950

EN 55024

EN 55022 class B: 1999

89/336/EEC, EMC directive

73/23/EEC, Low Voltage directive

UL 60950, EN 60601-1

MEDICAL ELECTRICAL EQUIPMENT needs special precautions regarding EMC (Electro Magnetic Compatibility) and needs to be installed and put into service according to the EMC guidelines.

WARNING: The use of accessories, transducers and cables other than those specified, with the exception of transducers and cables sold by the manufacturer of the ClearNote as replacement parts for internal components, may result in increase emissions or decreased Immunity of the ClearNote.



This device bears the CE, FCC and UL approval mark.

9 Declaration of conformity



Tieman GmbH

Fritzlarer Straße 25

D-34613 Schwalmstadt,

Germany

EU – declaration of conformity 89/336/EU

Schwalmstadt, Germany April 2005

The manufacturer declares that the:

Mobile video magnifier **ClearNote**

complies to the safety guidelines and directives (EMC 89/336/EU) of the European Community.

This EU – declaration of conformity is based on tests according to the directives: EN 61000-6-3:2002-08, EN 61000-6-1:2002-08 and EN 60950-1:2001 by an independent Notified body.

Tieman GmbH
Fritzlarer Str. 25
34613 Schwalmstadt

Stamp, manufacturer

A handwritten signature in black ink, appearing to read 'R. Fassbender', written in a cursive style.

R. Fassbender, Director Tieman GmbH

10 Service

For additional questions on the ClearNote regarding service, installation or operation, do not hesitate to contact your local distributor. To find your local distributor please call 1-800-826-4200

11 Contact

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