

# QUICK SETUP GUIDE

**MEMOCam<sup>®</sup>**

**MEMOCam<sup>®</sup> PLUS**

**MEMOCam<sup>®</sup> PLUS/S**

Version 3.2.001

Copyright © Video Domain Technologies Ltd. 2003

The information in this manual was accurate and reliable at the time of its release. However, Video Domain Technologies Ltd. reserves the right to change the specifications of the product described in this manual without notice at any time. As such, the descriptions and data included in this document may not be current. Video Domain Technologies Ltd. assumes no responsibility for any inconsistencies between the actual product and this manual's description of it. Any party electing to use this manual does so with the full knowledge of the possibility of such inconsistencies and takes full responsibility for any consequences that may arise while installing and/or using this product.

Video Domain Technologies Ltd. holds the copyright to this manual. All rights are reserved. No part of this publication may be reproduced or transmitted in any form or by any means without prior written consent from Video Domain Technologies Ltd.

#### *Disclaimer*

Video Domain Technologies Ltd. make no warranties regarding the content of this document. Video Domain Technologies Ltd. reserves the right to alter, modify and revise the specification without notice. Video Domain Technologies Ltd. assumes no responsibility for any errors contained herein.

The customer should note that in the field of multimedia there are a number of patents held by various parties. It is the responsibility of the user to assure that a particular implementation does not infringe on those patents. Video Domain Technologies Ltd. does not indemnify the user from any patent or intellectual property infringement.

#### *Registered Trademarks*

All other proprietary names mentioned in this manual are the trademarks of their respective owners.



VIDEO DOMAIN

Video Domain Technologies Ltd.

[www.vdomain.com](http://www.vdomain.com)

Manufacturer: Video Domain Technologies Ltd.  
Model: MemoCam  
Rated voltage(s): 12VDC  
Current(s) (or power): 0.5 A

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, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

This Class A/B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe A/B est conforme à la norme NMB-003 du Canada.



Changes or modifications not expressly approved by Video Domain could void the user's authority to operate the equipment.

**NOTE:** 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 the dealer or an experienced radio/TV technician for help.

# TABLE OF CONTENTS

---

- GETTING ACQUAINTED ..... 1**
  - What is in the Box? ..... 1
  - Introduction to MemoCam ..... 2
    - MemoCam Unit ..... 2
    - Remote Control Unit ..... 5
    - Mounting Bracket ..... 6
    - MultiMedia Card Reader ..... 6
  
- INSTALLING MEMOCAM ..... 7**
  - Mounting the MemoCam Unit ..... 7
  - Connecting the Power Supply ..... 9
  - Installing MemoCam Software for Windows ..... 9
    - MemoCam System Requirements ..... 10
  - Installing the Multimedia Card Reader ..... 10

<b>USING MEMOCAM</b> .....	<b>11</b>
Inserting and Removing the Multimedia Card.....	11
Arming MemoCam .....	12
Disarming MemoCam .....	12
<b>VIEWING THE IMAGES</b> .....	<b>13</b>
Viewing the Image List .....	14
Playing the Images.....	15
<b>CHECKING THE INSTALLATION</b> .....	<b>17</b>
<b>TROUBLESHOOTING</b> .....	<b>18</b>
<b>LICENSE AND LIMITED WARRANTY AGREEMENT</b> .....	<b>19</b>

# GETTING ACQUAINTED

---

Congratulations on your purchase of MemoCam®. To use MemoCam most effectively, start by learning how to:

- Install MemoCam.
- Use MemoCam to record images.
- View recorded images.



*This guide describes the basic features you need to begin working with MemoCam. For detailed information about all of MemoCam's many features, refer to the MemoCam Installation Manual and MemoCam Software Manual (on the software CD).*

---

## What is in the Box?

Your MemoCam is shipped with:

- MemoCam unit.
- 16 MB or higher Multimedia card.
- Protective card cover.
- Bracket Mounting kit.
- Power adapter.
- Remote control unit, including 2 AAA batteries.
- MemoCam software CD.
- MemoCam Quick Setup Guide (this guide), and the MemoCam Installation Guide.

If items are missing, contact your local Video Domain representative.

## Introduction to MemoCam

The MemoCam is a wall-mounted compact standalone CCTV system in a single device. For detailed information about MemoCam, refer to the *MemoCam Installation Manual*.

MemoCam includes:

- CCD camera.
- Video compression engine.
- Removable Multimedia card.
- Passive Infra-Red (PIR) motion detector.
- MemoCam software application.

The events recorded by MemoCam can be viewed on a PC with Windows 95, 98, 2000, ME, NT, or XP with Internet Explorer™ 5.0 (or higher), or a Pocket PC with Windows CE 3.0

(or higher). The images are read from the Multimedia card using a card reader and the MemoCam software.

## MemoCam Unit

The MemoCam unit is a high performance camera with automatic digital recording features contained in a single device.

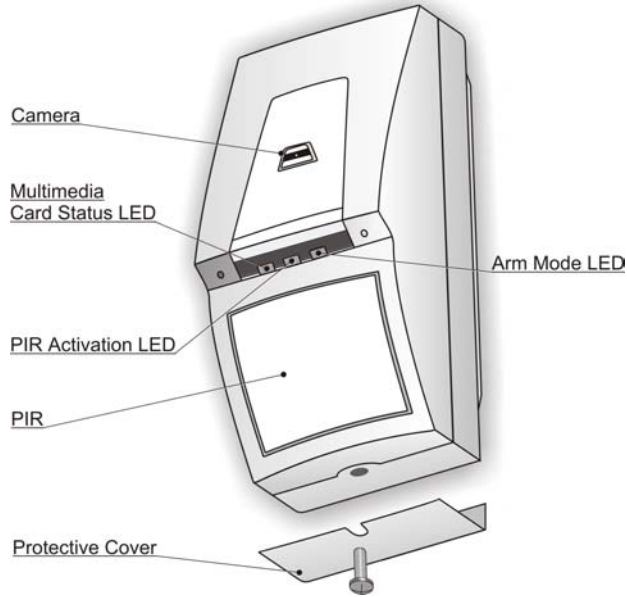


Figure 1. MemoCam Unit – Front View

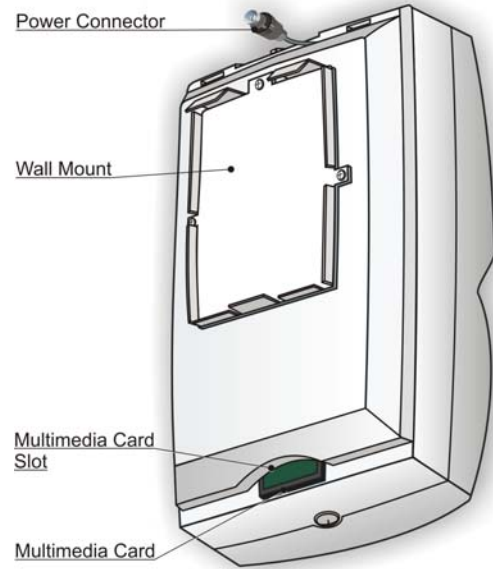


Figure 2. MemoCam Unit – Rear View

As illustrated in Figure 1 and Figure 2, the MemoCam unit has the following components:

- Internal camera.
- LEDs.
- PIR.
- Protective Multimedia card cover.
- Power connector.
- Wall mount.
- Multimedia card slot.

MemoCam has the following LED indicators:

*Table 1. MemoCam LEDs*

LED	Color	Description
Left (Multimedia Card Status)	Red	Error or Multimedia card is faulty or not inserted correctly
	Blinking Green	Data is being written to the Multimedia card
	Orange	Multimedia card is full
Middle (PIR Activation)	Flashing Red	Movement detected
Right (Arm Mode)	Orange	ARM mode
	None	DISARM mode

## Remote Control Unit

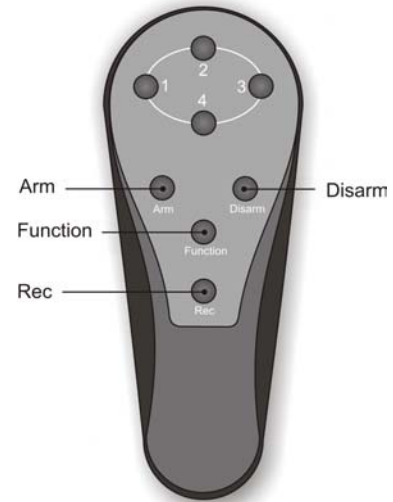
The remote control unit is used to activate (arm), deactivate (disarm), and manually record image snapshots. For more information, refer to the *MemoCam Installation Manual*.



---

*Insert 2 AAA batteries into the remote control unit before use.*

---



*Figure 3. Remote Control Unit*

## Mounting Bracket

The mounting bracket is used to mount the MemoCam unit on the wall. For more information, refer to *Mounting the MemoCam Unit* on page 7.

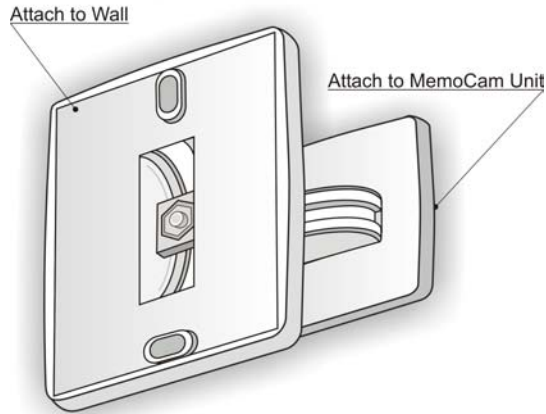


Figure 4. Mounting Bracket

## MultiMedia Card Reader

The Multimedia card supplied with MemoCam can be used with any standard card reader. For more information, refer to the documentation supplied with the Multimedia Card Reader.

# INSTALLING MEMOCAM

---

## Mounting the MemoCam Unit

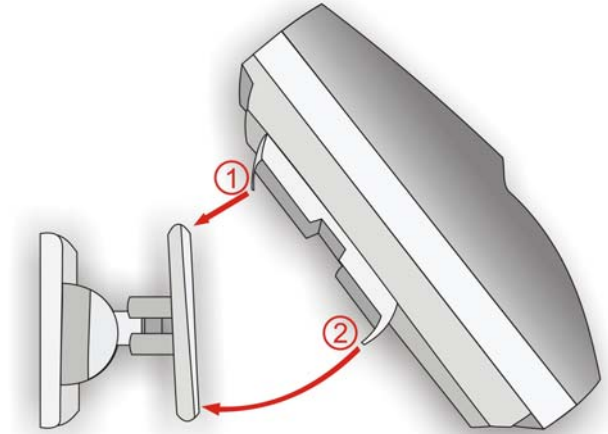
Begin by selecting a mounting location on the wall. Choose a location most likely to intercept an intruder. Make sure that the MemoCam power cord can reach a nearby power receptacle. If necessary, use an extension cord.

The MemoCam performs best in steady light and stable temperature, and is most sensitive in detecting sideways motion.

Avoid the following locations:

- Facing direct sunlight or light sources.
  - Facing areas subject to rapid quick temperature changes.
  - Areas with air ducts or substantial air flows.
  - Facing areas with high light contrast.
- To mount the MemoCam:
1. Loosen the two pieces of the mounting bracket without separating them. The two sections of the bracket should swing freely.
  2. Place the wall-mount section of the bracket on the desired location on the wall, and mark the drill points through the two fastener holes.
  3. Drill the holes (if necessary) and attach the bracket to the wall with screws.
  4. Retighten the two mounting bracket pieces so that the MemoCam Mount section can still be rotated with slight pressure.

5. Clip the upper part of the MemoCam unit's holder to the bracket and rotate, as indicated in Figure 5, until the MemoCam snaps into place.
6. Adjust the position of the MemoCam unit by moving it slowly up/down and left/right to the desired position.
7. Remove the MemoCam unit carefully from the bracket without changing the bracket position.
8. Tighten the two mounting bracket pieces firmly to prevent further movement.
9. Re-attach the MemoCam to the bracket as indicated in step 5 above.



*Figure 5. Mounting the MemoCam Unit*

## Connecting the Power Supply

Connect the power adapter to the MemoCam power connector (Figure 2). Plug the power adapter into a wall socket. The MemoCam status LED indicators light, as described in Table 1.

## Installing MemoCam Software for Windows

Before you install the MemoCam software, make sure your computer or Pocket PC meets the system requirements on page 10.

To install MemoCam software:

1. If you are using Windows NT, verify that the Active Desktop feature is active.
2. Insert the MemoCam Software CD into the CD-ROM drive. The CD Browser Screen appears automatically.



*If the CD Browser Screen doesn't appear automatically, open Windows Explorer to the CD-ROM drive, and double-click MCBrowse.exe.*

---

3. Click *Install MemoCam*. The Install Wizard begins.
4. Click *Next* on the Opening window of the Install Wizard. The MemoCam files are installed and the Finishing Window appears.
5. Select the Restart option and click *Finish*. Your computer is automatically rebooted.

For more information and complete installation instructions, refer to the *MemoCam Software Manual*.

## MemoCam System Requirements

The following are the minimum system requirements for installing the MemoCam viewer application on a PC or a Pocket PC.

### *PC Minimum Requirements*

---

CPU	Pentium II 200MHz or higher
RAM	16MB or higher
Graphic adapter	Super VGA or higher
Display resolution	640x480, 16 bit or higher
Operating systems	Windows 95, 98, 2000, ME, NT, or XP and Internet Explorer™ 5.0 or higher
Multimedia Card Reader	

---

### *Pocket PC Minimum Requirements*

---

CPU	ARM (or compatible)
RAM	16MB or higher
Display resolution	320x240, 16 bit or higher
Operating systems	Windows CE 3.0 or higher
Multimedia Card Reader	

---

## Installing the Multimedia Card Reader

To install the Multimedia Card Reader on your computer, follow the directions in the documentation supplied with the Multimedia Card Reader.

# USING MEMOCAM

---

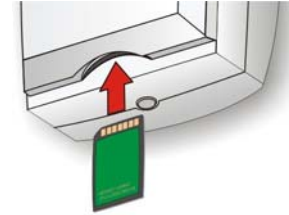
To use MemoCam, you need to insert the Multimedia card into the MemoCam unit and arm MemoCam using the remote control unit. These steps are described in detail in the sections below.

## Inserting and Removing the Multimedia Card

MemoCam comes with a protective cover over the Multimedia card slot. Remove this cover before inserting or removing the Multimedia card. For more information about the protective cover, refer to the *MemoCam Installation Manual*.

Insert the Multimedia card into the slot on the bottom of the MemoCam. Push the card gently

until you hear a click (refer to Figure 6). Wait 3 or 4 seconds for the MemoCam unit to read the card.



*Figure 6. Inserting the Multimedia Card*

To remove the Multimedia card, push the card gently inwards until you hear a click and then slowly pull the card downward.

## Arming MemoCam

To activate (arm) MemoCam:

1. Verify that MemoCam is plugged in and the Multimedia card is inserted into the unit.
2. Point the remote control unit at MemoCam and press *Arm* (refer to Figure 3). MemoCam emits one long beep and the Arm Mode (right) LED lights orange (refer to Figure 1).

2. Press *Disarm* (refer to Figure 3). MemoCam beeps three times and the Arm mode LED turns off.

## Disarming MemoCam

To deactivate (disarm) MemoCam:

1. Point the remote control unit at the MemoCam unit and enter the disarm code using the buttons labeled 1-4 on the remote control unit (refer to Figure 3).



*The default disarm code is: 1234.*

---


## VIEWING THE IMAGES

---

This section describes the basic features you need to begin working with the MemoCam. For detailed information about all of MemoCam's many features, refer to the *MemoCam Software Manual*.

To view the images recorded by MemoCam on the Multimedia card:

1. Disarm MemoCam (refer to *Disarming MemoCam* on page 12).
2. Remove the Multimedia card from the MemoCam (refer to *Inserting and Removing the Multimedia Card* on page 11).
3. Insert the Multimedia card into the card reader attached to your computer or Pocket PC.

4. Click  on your desktop to open the MemoCam application. The MemoCam window opens, displaying the list of images on the Multimedia card.



*If there is no Multimedia card in the reader, the MemoCam application opens a file containing sample images.*

---

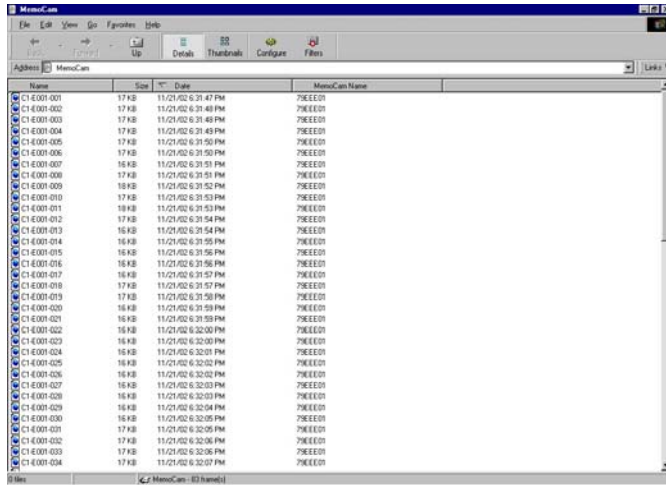




Figure 7. MemoCam Image List

## Viewing the Image List

You can view the Image List displayed in the MemoCam window in either of the following ways:

- ❑ **As a detailed list**, in which the image name, date and time of creation, as well as other details are displayed. To display the Image List as a detailed list, click  or open the **View** menu and click **Details**. For more information, refer to the *MemoCam Software Manual*.
- ❑ **As thumbnails of the images**. To display the Image List as thumbnails, click  or open the **View** menu and click **Thumbnails**. For more information, refer to the *MemoCam Software Manual*.

## Playing the Images

You can view images consecutively in the MemoCam Image Viewer. The images are played in the order they appear in the Image List.

To play images:

1. Double-click an image in the list.

OR









1. Select an image in the list.
2. Open the **Edit** menu and select **Play**.



*Figure 8. Image in MemoCam Image Viewer*

The images are displayed one after another in the MemoCam Image Viewer. A toolbar to control the viewing of images appears on the top of the window.

The MemoCam Image Viewer toolbar contains the following buttons:

Button	Description
	Plays the images backwards.
	Plays the images forwards.
	Pauses playing the images.
	Displays the current image in your PC's default viewer.
	Displays the previous image.
	Displays the next image.
	Checks the image integrity. Enter the integrity key or load the key from a file. For more information, refer to the <i>MemoCam Software Manual</i> .
	Adjusts the speed at which the images are displayed.

## CHECKING THE INSTALLATION

---

To check that MemoCam was installed successfully and is operational:

1. Make sure the Multimedia card is inserted in the MemoCam unit (refer to *Inserting and Removing the Multimedia Card* on page 11).
2. Disarm MemoCam (refer to *Disarming MemoCam* on page 12).
3. Point the remote control unit at the MemoCam unit and press *Rec*. The Multimedia Card Status (left) LED blinks green.
4. Remove the Multimedia card from the MemoCam (refer to *Inserting and Removing the Multimedia Card* on page 11).
5. Insert the Multimedia card into the card reader attached to your computer or Pocket PC.
6. View the image as described in *Viewing the Images* on page 13.

If you encounter any problems during this process, refer to *Troubleshooting* on page 18, or to the *MemoCam Installation Manual*.

# TROUBLESHOOTING

---

The following table provides solutions to some common problems. For more troubleshooting information, refer to the *MemoCam Installation Manual*. Should you require further assistance or support, visit the support section of our web site at [www.vdomain.com](http://www.vdomain.com) and file a problem report, or contact your local Video Domain representative.

Problem	Symptom	Solution
Unit does not work.	Impossible to operate unit, and LEDs don't light.	Check power supply and power cable.
Remote control does not work.	Unit does not arm and other remote control functions do not work. No beeping.	Check remote control batteries.
MemoCam application does not start correctly.		Check that you installed the application as described in the manual. If not, reinstall the application.
No images are recorded	The MemoCam software displays demo pictures	Check that the Multimedia card is inserted correctly.

# LICENSE AND LIMITED WARRANTY AGREEMENT

---

The opening of the packaging of the Software and/or the installation of the Software and/or the use of the Product shall be deemed that you have read and accepted the terms of this License and Limited Warranty Agreement.

If you do not agree to the terms of this agreement, do not use the product. Promptly return the entire package to the place where you obtained it.

## General Terms

You have purchased the right to use the software embedded in some integrated circuits of this Product and on the enclosed disks and/or CD\_ROM (the 'Software') and you have purchased the hardware that is the other part of the Product (the 'Hardware'), together (the 'Product') produced by Video Domain Technologies ('VDT'). If the Hardware or the Software does not function properly, please return the Product, together with the copy of your paid receipt, to the place where you obtained it.

## License

VDT grants you a license to use the Software subject to terms and conditions of the License agreement hereto. You do not own the Software. VDT and/or third parties remain the sole owner of the Software. The Software and accompanying documentation are proprietary products of VDT and/or third parties, and all title, trade secrets, trade names, trademark patents, copyrights and any other intellectual and proprietary rights, in the Product whether registered or not, remain the sole property of VDT and/or third parties. The intellectual property rights of VDT and/or third parties in the Product are protected by law.

Your rights in the Software are limited to installation of the Software, in the machine-readable form in accordance with the instructions VDT provided you, executing the Software after installation, and making an archive copy(s) in the form provided for backup purposes.

The Software may be used only in conjunction with the Hardware you bought, as an integral part of the Product. Any attempt to determine the source code for the Software; to modify, reprogram, translate, disassemble, decompose, or otherwise reverse engineer the Software; selling sublicense, transferring the Software to anyone else; or allowing any one the access or execute the Software through time sharing services or as a service bureau are forbidden. Any attempt to do any of these forbidden activities will automatically terminate your right to use the Software and our Limited Warranty without any notice from us.

## Warranty

The Product, including the media on which the Software is delivered, is warranted to be free of defects in material and workmanship and shall comply with VDT specifications, for a period of 12 months of normal use from the date of purchase (the 'Warranty Period').

The Warranty is void if VDT's instructions of operation, checking and maintenance are ignored, if attempts to repair the Product have been done before the Product is returned to the place where you obtained it. Responsibility for normal wear and tear is excluded.

The Product is provided 'As Is' and without Warranty, by VDT and/or the distributor and/or the importer, if the importer is not a distributor (each hereinafter the 'Distributor') of the Product, in the country where the product was purchased, or our suppliers, express or implied, including without limitation implied warranty of merchantability of fitness any particular purpose.

During the Warranty Period, VDT's and/or VDT's Distributor sole obligation, in tort, contract, or otherwise, shall be to repair or replace the defective Product, at VDT's option. The repair or replacement of the defective Product during the

Warranty Period will not extend the Warranty Period. The Warranty does not cover failures resulting from improper operation, connection, or installation.

For your convenience, VDT's obligations in connection to Warranty claims, repairs service and instructions have been transferred to VDT's Distributor in your country. The Distributor is responsible for providing you with all necessary services (if you need the details of the Distributor in your country, please contact VDT).

## Disclaimer

VDT and/or the Distributor make no Warranty, Representation or promise expressed or implied that the Hardware and/or the Software or associated documentation will satisfy your requirements and/or that the hardware or software and documentation are without defect or error or that the operation of the hardware and software will be uninterrupted or error free.

## Limitation of Liability

Except as otherwise restricted by Law, VDT's and/or distributor's aggregate liability arising from or relating to your purchase and/or use of the Hardware and/or Software, the associated documentation or any services provided by VDT and/or the distributor, is limited to the total of all payments made by or for you for the Hardware and Software and documentation.

Neither VDT nor the Distributor or any of their licensors, directors, employees, or any body acting on their behalf shall in any case be responsible or liable for any special, incidental, consequential, indirect or punitive damages, even if advised of the possibility of those damages and/or for lost profits or revenue, loss of contracts, loss of data, costs or re-creating lost data, and/or the cost of any substitute Hardware and/or Software and/or equipment or programs.

## Governing Law and Jurisdiction

Except as otherwise restricted by law, this Agreement shall be governed only by, and interpreted, in accordance with the laws of the State of Israel and the exclusive jurisdiction shall be vested to the local courts of Tel Aviv.

## Entire Agreement

This Agreement sets forth the entire understanding and rights and duties between you and VDT. This Agreement may be amended only in writing signed by both parties. No person or entity is authorized to modify this Agreement or to make any warranty, representation or promise which is different than, or in addition to, the representation or promises of this agreement.

## Waiver

No waiver of any right under this Agreement shall be effective unless in writing, signed by a duly authorized representative of the party to be bound. No waiver of any past or present right arising from any breach or failure to perform shall be deemed to be a waiver of any future right arising under this Agreement.

## Severability

If any provision in this Agreement is invalid or unenforceable, that provision shall be construed, limited, modified or, if necessary, severed, to the extent necessary, to eliminate its invalidity or unenforceability, and the other provisions of this Agreement shall remain unaffected.