

MEMOCAM GATEWAY

HARDWARE INSTALLATION GUIDE

MEMOCam®GATEWAY

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Video Domain Technologies Ltd.

TABLE OF CONTENTS

Introduction	1
MemoCam <i>iP</i> System Overview	2
MemoCam <i>iP</i> Features.....	3
The MemoCam GateWay	4
MemoCam GateWay Features	4
Product Specifications	5
Package Checklist	6
Front and Rear Panel Views	7
Front Panel.....	7
Rear-Panel.....	7
LED Indicators and Audible Beeps	9
LED Indicators	9
Audible Beeps	10
Power Connection	12
Power Supply	12
Power Supply Connection.....	12
Power Status Check.....	13
Ethernet Installation.....	14
Connecting to a Hub or Switch	14
Connecting to ADSL through a Router	14
Connection ID.....	15
Verifying your MemoCam GateWay connection to a LAN or PC16	
Serial Communication Ports	17
RS-485 Communication.....	17
RS-232 Communication.....	20

Jumpers and Push Buttons.....21

 Jumper Settings21

 Push Buttons.....22

 Main Board Pushbuttons22

 Resetting the MemoCam GateWay22

 Restoring Password Settings.....22

 Restoring Factory Default Settings.....23

 Restoring Factory Default Firmware Parameters23

Troubleshooting25

Glossary28

Problem Report Form.....30

Return Procedure31

License and Limited Warranty Agreement32

INTRODUCTION

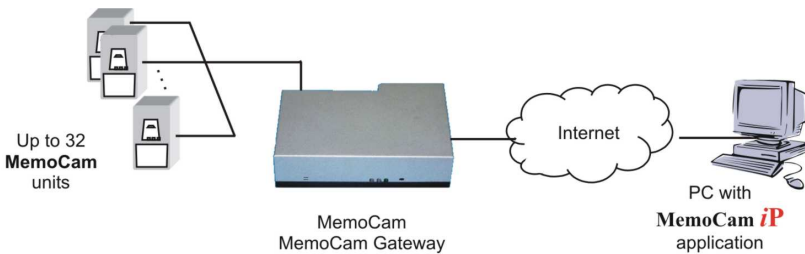
Welcome to Video Domain's MemoCam GateWay.

This manual will instruct you on the hardware installation of your MemoCam GateWay unit.

The MemoCam GateWay is a core component of the **MemoCam iP** system, the award-winning digital CCTV security and surveillance solution.

MemoCam *iP* System Overview

The **MemoCam *iP*** system enables alarm verification and identification, control of restricted areas, as well as home, business and property surveillance. In addition, the system is ideal for simple-to-operate security control centers.



*Figure 1. MemoCam *iP* System*

A complete **MemoCam *iP*** system includes:

- ❑ One or more MemoCam Gateway units connected to a LAN or the Internet.
- ❑ One or more MemoCam units connected to each MemoCam GateWay.

The MemoCam is a covert camera, PIR detector, smart digital DVR, VMD and communication port in a single Internet and network-enabled device.

- ❑ A PC connected to the LAN or Internet and running the **MemoCam *iP*** application.

MemoCam **iP** Features

The **MemoCam iP** system is a comprehensive solution for remote visual alarm verification, alarm status monitoring and image retrieval and event analysis. The **MemoCam iP** system features:

- ❑ Full remote operation capability, including:
 - Remote retrieval of recorded images.
 - Remote real-time visual alarm verification.
 - Remote MemoCam set-up.
 - Remote firmware upgrades for MemoCam units and MemoCam GateWay units.
- ❑ LED and beep status indicators.
- ❑ Video/audio/control transmission over digital networks.
- ❑ Image transmission on demand.
- ❑ 2 login levels: user and privileged-user.
- ❑ **MemoCam iP** application supports multiple MemoCam Gateways connected to the Internet or LAN.
- ❑ IR remote control snapshot and panic button.
- ❑ Standard RJ-45 Ethernet connection.
- ❑ Notify On Alarm (NOA) messages to a remote site.
 - Unit powered up
 - Switched to Arm
 - Switched to Disarm
 - Alarm triggered
 - Connection link established
 - Connection link lost
 - MMC card inserted
 - MMC card removed
 - MMC card full
 - Video signal lost
 - Remote control Panic button pressed
 - Configuration updated

- ❑ Continuous display and logging of notification messages for real-time system status monitoring.

The MemoCam GateWay

The MemoCam GateWay is a LAN and Internet interface for MemoCam units. Through the MemoCam GateWay, the **MemoCam iP** system supports image transmission over LAN and Internet, as well as remote configuration, remote alarm notification and remote upgrades.

MemoCam GateWay IP settings are configured from your PC or a LAN. The MemoCam Gateway enables you to connect up to 32 MemoCam units to a LAN or to the Internet.

A PC with the **MemoCam iP** application controls and manages MemoCam units connected to the MemoCam Gateway. A single MemoCam Gateway can serve several PCs simultaneously, while a single PC can support multiple MemoCam GateWay units.

Through the MemoCam GateWay, you can manage multiple remote sites from a single PC and manage multiple MemoCam units per site. One user can manage a **MemoCam iP** system at a time, and users may be assigned privileged status for priority system access.

MemoCam GateWay Features

The MemoCam GateWay system features:

- ❑ Secured access to MemoCam units (User and Privileged User)
- ❑ Monitors MemoCam unit(s) activity
- ❑ Serves multiple remote sites
- ❑ Firmware local and remote upgrades

Product Specifications

Table 1. MemoCam GateWay Product Specifications

Communication Links

Network Interface	10/100 BaseT Ethernet (IEEE 802.3) RJ-45 connector
Serial Interface	1 RS 485 port, DB-9 connector baud rate up to 115Kbit/sec Accepts up to 32 MemoCam units

Protocols and software

Protocol	TCP/IP, ARP
IP Configuration	Static IP set through local or remote connection
Set-up utilities	Local or remote Installation Wizard

Power Requirements

DC input	5VDC
Current	Max. 500mA @ 5VDC
AC Adapter (supplied)	Auto-sensing adaptor provided for 100 VAC – 240 VAC, 50-60Hz

Operating Environment

Temperature	0 - 50 °C (32 - 122 °F)
Humidity	< 80% non-condensing

Weight and Dimensions

Weight	1.25 Kg (2.7 pounds)
WxHxD	221 x 58 x 156 (mm) 8.70 x 2.28 x 6.14 (")

Certifications

FCC CE

Package Checklist

Table 2. MemoCam GateWay Package Checklist

MemoCam GateWay

- ☐ MemoCam GateWay unit

Software CD

- ☐ Auto-run Installation
- ☐ Additional MemoCam Documentation

Printed Documentation

- ☐ MemoCam GateWay Hardware Installation Guide
- ☐ MemoCam GateWay Local Configuration Manual

Miscellaneous

- ☐ 5VDC/5A power supply
 - ☐ CAT5 crossed network cable
-

Front and Rear Panel Views

Front Panel

The front panel of the MemoCam GateWay unit contains three LED indicators, an IR Receiver for remote control and a beeper.

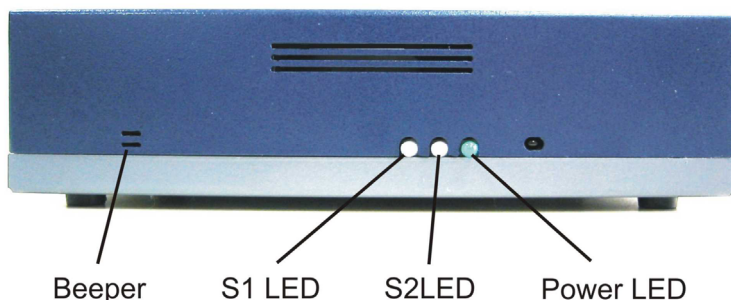


Figure 2. MemoCam GateWay Front Panel

Rear-Panel

The rear panel of the unit contains a LAN (RJ-45) connection, a DB-9 serial communication port, a block connector, Ethernet card LEDs and the POWER IN connector.

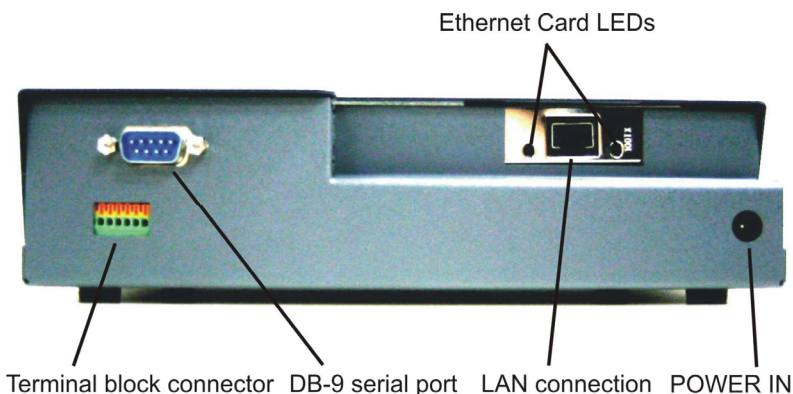


Figure 3. MemoCam GateWay Rear Panel

LED Indicators and Audible Beeps

LED Indicators

The MemoCam GateWay features the following LED status indicators:

Table 3. MemoCam GateWay LED Status Indicators

LED Location	Status Options	LED
Front right	Red / On / Off	Power LED
Front middle	Green/Red/ On / Off	S1 (Status LED)
Front left	Red / On / Off	S2 (Error LED)
Back, card bracket	Green / On / Off	LED4 (Network LED)

The MemoCam GateWay LEDs display as follows:

Table 4. MemoCam GateWay Operation LED Status

Details	Status	LED
Normal operation.	Ready	Power LED On + S2 Off, S1 blinks green continuously, LED4 blinks green continuously.
Normal operation, with user logged into MemoCam unit.	Ready	Power LED On + S1 On and blinks Off continuously, LED4 blinks green continuously.
Normal operation, data traffic on serial communication, no user connected to MemoCam unit.	Ready	Power LED On + S1 Off and blinks On continuously, LED4 blinks green continuously.
<input type="checkbox"/> UART communication error.	Error	S2 blinks once
<input type="checkbox"/> Socket error. API failed.		
<input type="checkbox"/> MemoCam unit not found.		
<input type="checkbox"/> No UART.	Hard Error	S2 On
<input type="checkbox"/> No Ethernet card found.	(system failure requiring reset or restart)	
<input type="checkbox"/> Internal error.		

❑ Network not detected.

Other error that requires reset.

If necessary, you can upgrade the MemoCam GateWay firmware. For further details, refer to the *MemoCam GateWay Local Configuration Manual*.

When firmware upgrade is conducted, the MemoCam GateWay LEDs illuminate as follows:

Table 5. MemoCam GateWay Firmware upgrade LED Status

Details	Status	LED
Firmware data transfer in progress.	Firmware Upgrade	S2 + S1 Blink Red slowly
Firmware data burn to flash memory in progress.	Firmware Upgrade	S2 + S1 Blink Red quickly
MemoCam GateWay is ready for operation.	Ready	S2 + S1 Off

Audible Beeps

The MemoCam GateWay sounds beeps as follows:

Table 6. MemoCam GateWay Beep Indicators

Sounds	Details	Status
1 beep	MemoCam GateWay has booted up and is ready	Ready
Beep every 1 second for 20 seconds.	Reset completed and MemoCam GateWay boots up	Reset
Beep every 1 second until reset	System in hard error	Hard Error
3 beeps, each 1/2 second in length	Network error during boot	Network Error
2 beeps, each 1/2 second in length	Other error during boot	Other Error

2 beeps	Firmware upgrade completed successfully	Upgrade
---------	--	---------

POWER CONNECTION

Power Supply

The MemoCam GateWay unit is supplied with an external 5VDC/5A power supply. The power supply should be connected to the rear-panel POWER IN plug.



Figure 4. MemoCam GateWay Power Supply Unit

Power Supply Connection

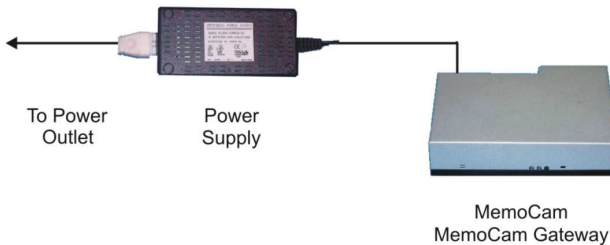


Figure 5. MemoCam GateWay Power Supply Connection

To connect the MemoCam GateWay to the power supply:

- ❑ Connect the MemoCam GateWay power supply cord to a nearby power outlet.
- ❑ Connect the power supply to the rear-panel POWER IN connector.



Use only the power supply that is supplied with the MemoCam GateWay unit. Using another power supply may result in damage to the unit.

Power Status Check

When properly connected to the power supply, the MemoCam GateWay power LED glows green. The absence of a glowing power LED indicates that no power is being received or that there is a problem with the MemoCam GateWay unit. For further details, refer to *Troubleshooting*, page. 25.

ETHERNET INSTALLATION

Connecting to a Hub or Switch

To connect to a Hub or Switch:

- ❑ Plug one end of your Ethernet cable into the MemoCam GateWay's Ethernet 10/100 BaseT port and the other end into a Hub or Switch that is connected to your network.

Connecting to ADSL through a Router

You can connect your MemoCam GateWay unit to an ADSL modem through a router. This setup requires a Network Address Translation (NAT) enabled router or DMZ Host settings for your MemoCam GateWay unit, as well as an open port and exposure of the MemoCam GateWay IP address to the Internet.

For detailed NAT and DMZ descriptions, refer to the *MemoCam GateWay Local Configuration Manual*.

Connecting to a LAN or PC

You can connect your MemoCam GateWay unit to your PC through a LAN using RJ-45 network cables. Alternatively, connect your MemoCam GateWay directly to your PC using a RJ-45 cross-wired network cable.

To connect the MemoCam GateWay unit to your PC, first configure your PC TCP/IP settings to log into the MemoCam GateWay as described in the *MemoCam GateWay Local Configuration Manual*.



You will be required to modify your PC's IP settings for the first-time MemoCam GateWay connection. Ensure that you record your PC's original IP settings. If desired, you can restore these IP settings following MemoCam GateWay configuration.

Connection ID

Each MemoCam GateWay unit has identification stickers located on the bottom surface of the unit and on the packaging carton.

Each sticker contains the MemoCam GateWay unique unit serial number listed below the S/N bar code line.

Use right-hand half of this serial number, preceded by 5 zeros as the *connection ID* in the MemoCam Application when connecting between the MemoCam GateWay and MemoCam units.

- ❑ Example: for S/N 34401-7C82E6B, the Connection ID is 000007C82E6B.

For further details, refer to the *MemoCam Software Manual*.

Connecting MemoCam GateWay to a LAN or PC

To connect the MemoCam GateWay unit to the LAN, or directly to your PC:

1. Plug one side of the RJ-45 network cable into the Ethernet port on the rear panel of the MemoCam GateWay unit.



For LAN connections, use RJ-45 network cables (not supplied). For PC connections, use a RJ-45 cross-wired network cable (supplied).



The network cable supplied with the MemoCam GateWay unit is a cross cable for PC connections.

2. Plug the other end of the cable into the LAN port (RJ-45 network cable) at your premises or to your PC's LAN port (RJ-45 cross-wired network cable).
3. Connect the MemoCam GateWay unit to its power adapter and turn the unit on.

If the S1 and S2 LEDs do not turn off and two beeps are sounded, this indicates that a communication problem has occurred. For details, refer to *Troubleshooting*, page 25.

Verifying your MemoCam GateWay connection to a LAN or PC

Once your MemoCam GateWay had been connected to your LAN or PC, use the PING diagnostic to verify your network connection and confirm your TCP/IP Settings.



For further details, refer to the MemoCam Local Configuration Manual.

SERIAL COMMUNICATION PORTS

The MemoCam GateWay features a RS-485 D-Type 9-pin serial communication port (SP1) and a terminal block connector port (SP2).

RS-485 Communication

The serial communication port and a terminal block connector port are used for communication with multiple MemoCam units connected in series using the RS-485 communications protocol.

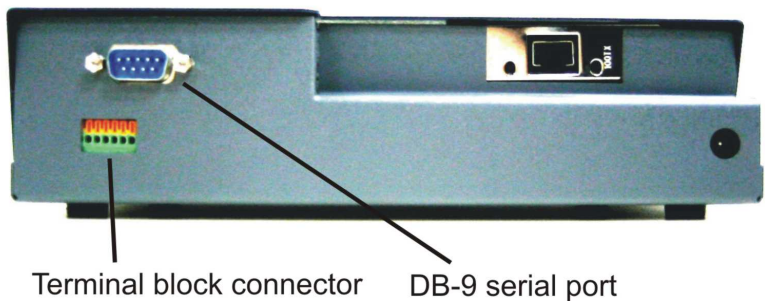


Figure 6. MemoCam GateWay Serial Ports



You can connect MemoCam units either to D-Type 9-pin serial communication port or to the terminal block connector, but not to both at the same time.

You can connect your MemoCam units in serial to the serial communication port using a cable with the following pin-out:

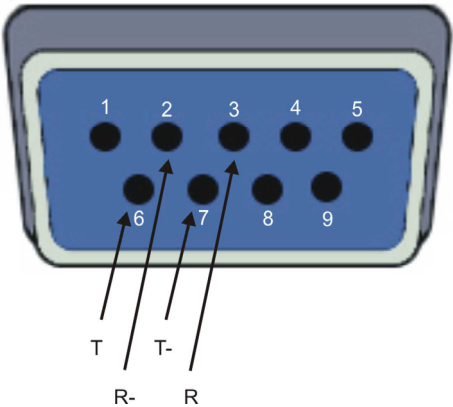


Figure 7. MemoCam GateWay DB-9 Serial Communications Port RS-485 Pin-Out

Table 7. MemoCam GateWay Serial Cable Pin-out

MemoCam GateWay Side	SP1 Pins (D9-RS-485 Male connector)
R+ (pin 6)	T+
R- (pin 2)	T-
T+ (pin 3)	R+
T- (pin 7)	R-

Alternatively, you can connect your MemoCam units in serial to the terminal block connector port using a cable with the following wire connection:

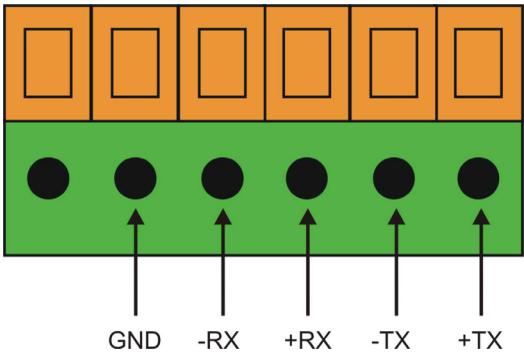


Figure 8. MemoCam GateWay Block Connector Serial Port RS-485 Wire Connection



For further details on connecting MemoCam units in series to the MemoCam GateWay, refer to the MemoCam Installation Manual.

RS-232 Communication

A MemoCam GateWay unit can communicate with a single RS-232 MemoCam unit.

The RS232 MemoCam unit should be connected directly to the MemoCam GateWay unit.

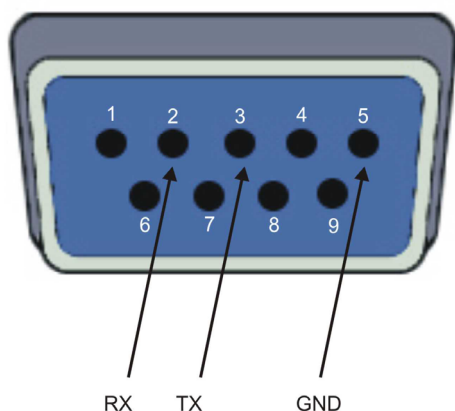


Figure 9. MemoCam GateWay DB-9 Serial Communications Port RS-232 Pin-Out



For RS-232 communication, ensure that your MemoCam GateWay jumper settings are set for RS-232 as described in Jumper Settings, page 21.



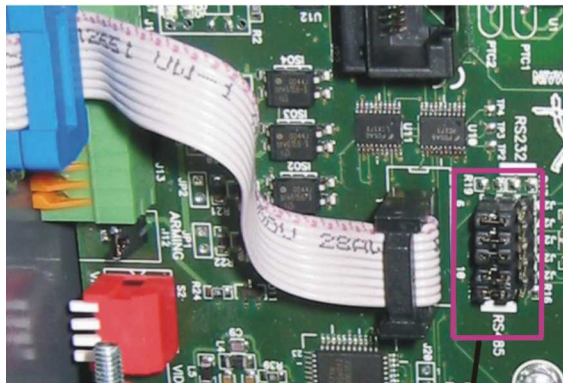
For further details on connecting RS-232 MemoCam unit to the MemoCam GateWay, refer to the MemoCam Installation Manual.

JUMPERS AND PUSH BUTTONS

Jumper Settings

You can use the MemoCam GateWay Main Board RS jumpers to select the serial port (SP1) communication standard (RS-485 or RS-232):

- ❑ RS-232: J24 - J28 jumpers connected between pins 1-2
- ❑ RS-485: J24 - J28 jumpers connected between pins 2-3 (factory default)



RS jumpers J24-J28

Figure 10. MemoCam GateWay Main Board Jumpers



Disconnect the MemoCam GateWay power supply before modifying jumper settings. Restore power to enable your new jumper settings.

Push Buttons

Main Board Pushbuttons

The MemoCam GateWay Main Board is equipped with three pushbuttons (**Test**, **Factory Default** and **Reset**).



*The Test button is used only for diagnostics procedures.
Do not press this button.*

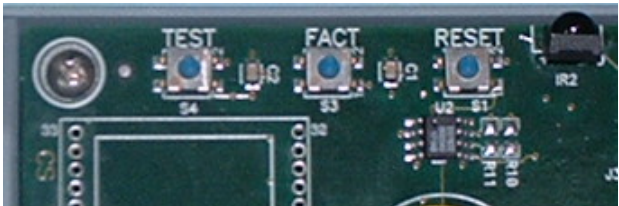


Figure 11. MemoCam GateWay Main Board Pushbuttons

Resetting the MemoCam GateWay

To reset the MemoCam GateWay:

- ❑ Momentarily press the **RESET** button and release it.

The MemoCam GateWay LEDs illuminate as follows:

*S1 blinks red quickly -> S1 and S2 glow red
-> S1 and S2 go off*

The MemoCam GateWay is reset.

Restoring Password Settings

To restore password settings:

1. Momentarily press the **RESET** button and release it.
2. Wait at least 40 seconds.

3. Press the **FACT** button for 3 seconds

The MemoCam GateWay LEDs illuminate as follows:

*S1 blinks red slowly -> S1 and S2 glow red
-> S1 and S2 go off*

The 'admin' password is restored to 'vc'. MemoCam GateWay firmware and other configuration settings are unaffected.

Restoring Factory Default Settings

To restore settings:

1. Momentarily press the **RESET** button and release it.
2. Wait at least 40 seconds.
3. Press the **FACT** button for 10 seconds

The MemoCam GateWay LEDs illuminate as follows:

*S1 blinks red slowly -> S1 blinks red quickly
-> S1 and S2 glow red -> S1 and S2 go off*

MemoCam GateWay configuration settings are restored to default values.

Restoring Factory Default Firmware Parameters

To restore MemoCam GateWay factory-default firmware settings:

1. Press the **FACT** button and hold.
2. While holding the **FACT** button, momentarily press the **RESET** button and release it.
3. Continue holding the **FACT** button for 20 seconds.

The MemoCam GateWay LEDs illuminate as follows:

*S1 blinks red quickly -> S1 blinks red slowly
-> S1 and S2 glow red -> S1 and S2 go off*

The MemoCam GateWay unit is reset to its factory-default firmware parameters.

TROUBLESHOOTING

Table 8. MemoCam GateWay Troubleshooting Table

Symptom	Problem	Corrective Action
Both LEDs glow red.	Network card not ready or network connection is unavailable.	<p>Verify that the network cable is connected to the MemoCam GateWay correctly.</p> <p>Reset the unit, verify that the ACT/LINK light on the Ethernet card is blinking and the 100TX led is on.</p>
ACT/LINK light on the Ethernet card is not blinking.	Cannot establish connection between telnet or MemoCam Application and MemoCam GateWay unit.	<p>Verify that the Ethernet card is plugged correctly into the white PCI bus of the MemoCam GateWay unit.</p> <p>Verify that the network cable is connected correctly to the board, and that the Ethernet network is active.</p> <p>If you are connecting to a LAN, verify that the network cable is not a cross cable.</p>
Power LED is OFF.	No power.	<p>Verify that the outlet is providing power suitable for the MemoCam GateWay unit.</p> <p>Verify that the power cord is connected to the power supply.</p>
LED S1 does not blink green or is Off.	A beep sounds every five minutes and both LEDs blink red or are Off.	<p>Verify that the serial cable connecting the MemoCam unit(s) to the MemoCam GateWay is plugged in correctly.</p> <p>Verify that all MemoCam unit(s) are connected correctly to the MemoCam GateWay and that power is being supplied.</p> <p>Verify that the MemoCam unit(s) are IP enabled.</p>

Symptom	Problem	Corrective Action
LED S1 blinks green / Off, LED S2 blinks red / Off.	The connection to the unit is continually disconnected.	<p>The serial communication is noisy. Verify that the serial cable connecting the MemoCam unit(s) to the MemoCam GateWay is plugged in correctly.</p> <p>Verify that all MemoCam unit(s) are connected correctly to the MemoCam GateWay and that power is being supplied.</p> <p>Verify that a Privileged User is not connected due to a notification on alarm.</p>
LED S1 blinks green, LED S2 is Off.	Failure to receive notification on alarm.	Verify that the notify on alarm destination IP address is set correctly, and that it is accessible from the MemoCam GateWay (for details, contact your network administrator).
	IP configuration is not correct (Local Network).	<p>Verify that the station book IP address of the MemoCam GateWay unit is set correctly.</p> <p>If connecting using a crossed cable, ensure that your PC has an IP address from the same IP pool as the MemoCam GateWay unit, as well as the same Subnet Mask.</p>
	MemoCam GateWay has the ADSL\CABLE modem public IP address but still cannot connect to the MemoCam units over the Internet.	To connect the MemoCam GateWay behind an ADSL\CABLE modem, a NAT or DMZ router is required forward the incoming calls from MemoCam GateWay TCP port (default 4599) to the MemoCam GateWay unit IP address. For details, contact your network administrator.
	General hardware problem.	Unplug the unit and plug it in again. If the STATUS indicator light does not blink, contact VDT

		support.
	Forgotten password.	Reset password to default using the FACT button.

Symptom	Problem	Corrective Action
Normal Operation		
S1 blinks continuously	UART TxRx	Normal communication on serial line.
LED4 blinks continuously	Network	Network available or TxRx.

GLOSSARY

Baud rate	Bits per second rate between MemoCam Plus units and the MemoCam GateWay (with RS485 protocol).
DMZ	<p>a computer or small subnetwork that sits between a trusted internal network, such as a corporate private LAN, and an untrusted external network, such as the public Internet.</p> <p>Typically, the DMZ contains devices accessible to Internet traffic, such as Web (HTTP) servers, FTP servers, SMTP (e-mail) servers and DNS servers.</p>
Fixed IP	An IP addresses assigned to the unit that cannot be changed dynamically (for example, using DHCP.)
Gateway	A gateway is a network point that acts as an entrance to another network.
ISP	Internet Services Provider.
LED	Light Emitting Diode. An electric component that lights up.
NAT	<p>Short for Network Address Translation, an Internet standard that enables a local-area network (LAN) to use one set of IP addresses for internal traffic and a second set of addresses for external traffic. A NAT box located where the LAN meets the Internet makes all necessary IP address translations.</p> <p>NAT serves three main purposes:</p> <ul style="list-style-type: none">❑ Provides a type of firewall by hiding internal IP addresses❑ Enables a company to use more internal IP addresses. Since they're used internally only, there's no possibility of conflict with IP addresses used by other companies and organizations.❑ Allows a company to combine multiple ISDN connections into a single Internet connection.
Network Port	In programming, a port is a "logical connection place" and specifically, using the Internet's protocol, TCP/IP, the way a client program specifies a particular server program on a computer in a

	network. The MemoCam GateWay can be accessed over a network using TCP/IP ports.
Packet delay	Delay between data packets sent between MemoCam Plus units and the MemoCam GateWay.
Packet size	Size of data packets sent between MemoCam Plus units and the MemoCam GateWay.
Private IP	Non-valid Internet address, can be used only in a LAN and is not accessible from the Internet.
RFC-1918	Address allocation for private Internets protocol.
Serial Port	On computer and telecommunication devices, a port is generally a specific place for being physically connected to some other device, usually with a socket and plug of some kind. The MemoCam GateWay is provided with one serial port (DB-9).
Static IP	Valid Internet address
Subnet Mask	A subnet is an identifiably separate part of an organization's network. Typically, a subnet may represent all the machines at one geographic location, in one building, or on the same local area network (LAN). Having an organization's network divided into subnets allows it to be connected to the Internet with a single shared network address.

PROBLEM REPORT FORM

MemoCam GateWay

Customer name: _____

Company: _____

Telephone: _____

Fax: _____

Email: _____

Date: _____

Product: _____

Interface: _____

Serial Number: _____

Problem Description: _____

RETURN PROCEDURE

To repair, exchange, or request a refund for your MemoCam GateWay unit:

- ❑ Provide evidence of original purchase.
- ❑ Obtain a Problem Report Form (PRF) from your local sales representative or dealer.
- ❑ Complete the PRF. Describe the problem(s) in as much detail as possible. Include a return address and the telephone number of a technical contact.
- ❑ Pack your MemoCam GateWay in an anti-static package and return it pre-paid to your sales representative or dealer. The PRF should be visible on the outside of the package.

Video Domain Technologies Ltd. makes every effort to provide prompt repair or exchange services, and to ensure your complete satisfaction with our products.

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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 use.

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).

However, if according to law, by law EC directive etc. prevailing in the country/state in which the product was purchased you are entitled a longer warranty period and/or to better minimum undertaking from VDT and/or from the distributor than those granted to you herein, then this document is changed to reflect the said minimum/s.

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 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.