



AN **AUTOMATED** SOURCE OF VIDEO
RECURRING REVENUE



PRODUCT MANUAL

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7. **NO WAIVER.**

The failure of either party to enforce any rights granted hereunder or to take action against the other party in the event of any breach of hereunder shall not be deemed a waiver by that party as to subsequent enforcement of rights or subsequent actions in the event of future breaches.
8. **VALIDITY.**

If any part of this Agreement is found void and unenforceable, it will not affect the validity of the balance of the Agreement, which shall remain valid and enforceable according to its terms.
9. **COMPLIANCE WITH APPLICABLE LAWS .**

You agree to use the SOFTWARE in strict compliance with all applicable federal, state and local laws, rules and regulations .
10. **LIMITATION ON REMEDIES; NO CONSEQUENTIAL OR OTHER DAMAGES.** Except for any refund elected by OzVision, you are not entitled to any damages, including but not limited to consequential damages .
11. **ENTIRE AGREEMENT .**

This agreement constitutes the entire agreement between you and OzVision and supersedes any prior agreements, representations, proposals, or understanding, whether oral or written, with respect to the subject matter of this agreement .
12. **GOVERNING LAW.**

This agreement is governed by and constructed under the laws of the state of Israel, with out regard to the choice of law rules. The competent court in the Tel-Aviv District shall have sole and exclusive jurisdiction over all disputes arising in connection with this Agreement .

Welcome To OzMail

Recurring revenue is the lifeblood of any successful Central Station. Monthly fees and services are what drive your business as you meet the day-to-day demands of running your network. Computer technologies have automated many of the everyday tasks associated with monitoring services. With OzMail you can now have automated recurring revenue from video!

The Ozmail System delivers everything from alarm events to video inventory reports e-mailed directly to clients with a minimum of hardware required at the Central Station.

Once the system has been set-up, the entire e-mail process is completely automated and no additional work is required at the central station. All e-mails are sent and received through a completely automated system running independently of the existing Central Station systems. In addition, the OzMail software has the flexibility to be incorporated into existing software systems already in use by monitoring stations around the United States.

Software Installation

System Requirements

- CPU: P4-2G or higher.
- 256 MB internal memory or more according to the number of modems - at least 64MB to every modem.
- Windows 2000 **Professional** (New installation. **Do Not** Upgrade from Windows 98)
- Internet Explorer version 5.0 or higher.
- Microsoft e-mail software - Outlook Express 5.0 or higher and Microsoft Outlook 2000.
- **OzVision Video Receiver version 2.7 or higher.**

Installing OzVision Video Receiver

- Insert CD.
- For software installation, follow the on-screen instructions.

The '**Video Receiver Installation**' screen will appear. If you wish to cancel the installation, choose '**Cancel**'. To continue the installation, choose '**Next**'.

At this point, several files required for the installation process will be copied from the installation CD to your computer.

The '**Choose Destination Location**' dialog will appear. This dialog screen is used to determine the directory in which the **Video Receiver** will be installed.

It is recommended to install it in the default directory. The directory name appears in the '**Destination Folder**' panel. After the destination folder has been chosen, click on the '**Next**' button to continue the installation. Do the same for the Destination of the data files.

Click '**Next**' to select the program folder dialog.

The setup program will now copy the program files from the installation CD or diskette to your HD, according to the parameters previously entered.

After copying all the necessary files to your computer, the **'Select Components'** dialog screen will pop up. This dialog box has two checkboxes:

1. Create a Shortcut to the Video Receiver on **'My desktop'**. Check this box if you want to create a shortcut on your desktop.
2. Run the Video Receiver automatically upon startup'. Check this box if you want the Video Receiver to load on start up. Press **'Next'** to continue the installation.

The **'Information'** screen will appear, confirming that the installation was successful.

Click on the **'Finish'** button.

Definitions screen resolution and colors

- Set display area to 800x600 or higher.
- Set the color palette to 24 true bit colors or 32 bit.
- Set font size to **'Large Fonts'**.

Installing Mailing Software

- Click on “Mailing software installation” in the Main Menu.
- Follow the instructions on your screen.

-
- Restart the ‘Video Receiver’.

Opening New Account/Site

Step by Step

Step 1

Subscriber Basic System Requirements

- Subscriber E-mail Address
- Mail Box size - An average OzMail is approximately 200K. It is recommended that you set the mail box size to three times the size of all e-mails sent per day. For Example: If 6 e-mails are sent per day, the mail box size should be:
 $6 \times 200\text{kb} = 1200\text{kb} \times 3 = 3600\text{kb} (3.6\text{MB})$
- Windows 98 and higher.

Step 2

E-Mail Address

- In your default e-mail software, define whether to send e-mails immediately OR every couple of minutes.
- The default e-mail software has to be running all the time (it can be minimized). It is recommended to test the system connection to the World Wide Web by sending a standard e-mail to yourself in the auto send mode.
- To check which mailing system is your default.
Go to : Control Panel/ Internet Options/ Programs in E-mail.
Choose "Outlook Express" OR "Outlook 2000"
- Open your default Mailing Software.
- Enter your subscriber's E-mail Address to your address book in the Outlook software.
- To check security settings in Outlook Express:
Go to: Tools/Options/Security/Uncheck "warn me when other applications try to send mail as me"
Click OK to save your option.
- Send E-mail to your subscriber for testing.
- Receive E-mails.

Step 3

Entering and Connecting a New Site in Video Receiver software

To enter the settings, press the setup button.



The Edit button will open the site list editing button panel.



To Change site settings select a site and press change

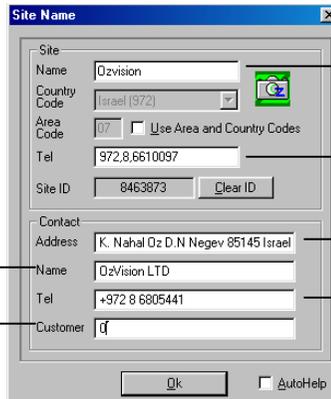
Enter a New site

Enter a new site while duplicating the information from an existing site

Delete a site from the list

Close the site list editing button panel

Every Site has :



Site Name

Unit telephone number

Site Address

Contact telephone number

Contact name

Subscriber serial number or ID

Step 4

Calling a Site

Click on the 'Call' button to open the site list.



Search site
by name

Choose a site and click
on the 'Connect'
button (or double click
on the site).

The Edit button will
open the site info
window for editing.

The System button
will open the
system parameter
setting screen

The computer will call the site, and connect to the remote unit using the site phone number (entered as explained in the 'Updating Site List' chapter). The phone number will appear in the '**Modem Dialog Box**' in the left lower corner of the screen. You will be asked to Enter a Password, then confirm the Password and click the '**OK**' button.

The screenshot shows a dialog box titled "Set Remote Unit Password". It has a close button (X) in the top right corner. The dialog is divided into two main sections. The top section contains three input fields: "for site:" with the value "25", "ID:" with the value "4279437057", and "Version:" with the value "OxLINE 4VC-2.49.20". The bottom section contains two more input fields: "Enter Password:" and "Confirm Password:". At the bottom of the dialog are two buttons: "Ok" and "Cancel".

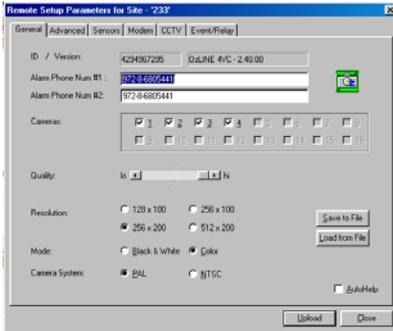
The unit saves the password and sends a unique ID to the software. The software identifies the new ID and asks you to confirm it. Click on '**OK**' button to accept the new ID.

The screenshot shows a dialog box titled "Error calling site 'Bs'". It has a close button (X) in the top right corner and a yellow warning triangle icon on the left. The text inside the dialog reads: "Expecting ID 0 for Site 'Bs'." followed by "If new ID is not accepted, connection will be broken." and "Accept ID = 294658560 for Site?". At the bottom are two buttons: "OK" and "Cancel".

Click on the '**Call**' button again to disconnect, which will terminate the remote unit monitoring session.

General Definitions

In order to define General Definitions to the OzLine unit, call your unit site and click on the tuning button  then click on "unit power on parameters".



Every remote unit has a unique ID number, this identification number will appear in the ID & unit version field.

These parameters cannot be changed.

- **Alarm phone no. #1 / #2** – Use these fields to enter the phone numbers that the unit will call in case of an alarm or a callback request. If you have only one phone line, type the same phone number in both fields.
- **Cameras** – check the active cameras at the remote site.
- **Quality** – set the compression ratio to the image quality you need. Remember that high-quality images are transmitted at slower speeds.
- **Resolution** – set the resolution to the quality you need. Remember high-resolution enables sharper images & greater detail but slows down the frame rate.

- **B/W or Color-** This option allows you to choose the black and white option. (B/W video is about 30% faster than color).
- **PAL/NTSC-** This option sets the camera's format to NTSC or PAL. **This change will be effective only after rebooting the unit.**
- **Save to file** – Click on this button to save the new parameters to a local file in the PC. You can later restore the values by reloading the saved file.
- **Load from file** – Restores the last saved values.
- **Close** – Click on this button to close the window without saving.

Note : Press the **UPLOAD** button to set and save the new parameters in the remote transmitting unit.

After adding the software definitions, disconnect the unit and then reconnect the unit again.

Step 5

Video Transmission Events

A Video event on site can be received by Central Stations equipped with the OzMail System.

The “Event” can be a result of several inputs :

1. A response to a sensor trip.
2. Scheduled virtual visits at a predefined time and day.
3. Downloaded recorded frames from the OzLine unit.

Triggers and Activations in the OzLine unit

Every video e-mail is a result of a video transmission from the Monitoring Station.

The OzLine when set correctly will generate a video transmission to the Central Station as a result of a tippet input.



In this screen we can set the response of the system to each sensor. Functions that are not available in the unit you are using will be grayed out.

Functions that can be associated with every sensor:

- ✓ The camera that will record or transmit video.
- ✓ The activation (output relay) that will be activated.

- ✓ The reaction to the sensor can be one of the following: Disabled, Alarm, Record.
- ✓ The type of the sensor tripping mode: normally closed, normally opened or active on transient.
- ✓ The action as a result of the sensor detection can be: with a delay (delayed action), transmitted or not transmitted to the OzVision Video Receiver, or active at all times even if the system is not armed.
- ✓ If the sensor will activate a recording, you can determine the number of frames to be recorded and the time interval in seconds between the frames.
- ✓ To determine if this sensor will trigger pre and/or post alarm recording, check the applicable box.

In order to configure the sensor group in the range 9-16, click on the 9-16 or 5-12 radio buttons.

The **revert to default** button will return the unit to the default parameters.

Note : Press the **UPLOAD** button to set and save the new parameters in the remote transmitting unit.

Auto Download

When using Memory Enhanced OzLine System (Dram unit), sensor inputs can be set to record the associated camera in the units memory.

The OzLine is equipped with an automatic download function that can be set to download automatically when memory has reached buffer size limit

The **OzLine** unit will download the recorded frames automatically to the OzVision Video Receiver by choosing the option **Auto Download on buffer size**. The download will begin when the memory is full, in proportion to the position of the scrollbar.

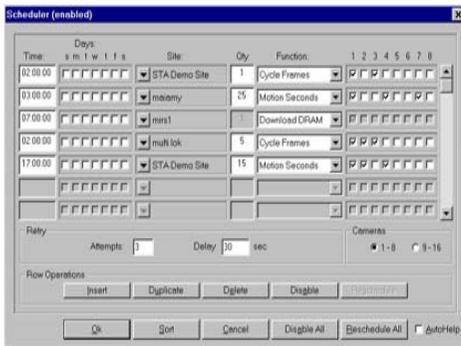
Do not Auto Download – The OzLine unit will not download the recorded frames to the OzVision Video Receiver until the user will dial to the OzLine and click on Download From REC unit button 

When the buffer is full the OzLine unit will record over the oldest frames (First in , First out).

Set Scheduled Guard Tours

The OzVision Video Receiver can automatically call sites at predefined times and days and cause the unit to perform defined tasks.

OzVision Video Receiver will record those frames for future playback and send them by e-mail.



- Click on the '**Insert**' button to add a new scheduled call.
- Enter the Time and Days. Then select the number of cycles or time for each camera.
- Select the function to be performed:
Cycle frames - will transmit and record single frame(s) from every camera

- **Motion seconds** - will transmit and record streaming video for X seconds from every camera.
- **Download DRAM** - will download the recorded video in the unit.
- If no cameras were chosen, no call will be initiated.

Note: the PC will not call a site while you are using the PC. The PC must be idle for at least one minute. If the **Video Receiver** fails to connect to a site, a failed dialog will appear.

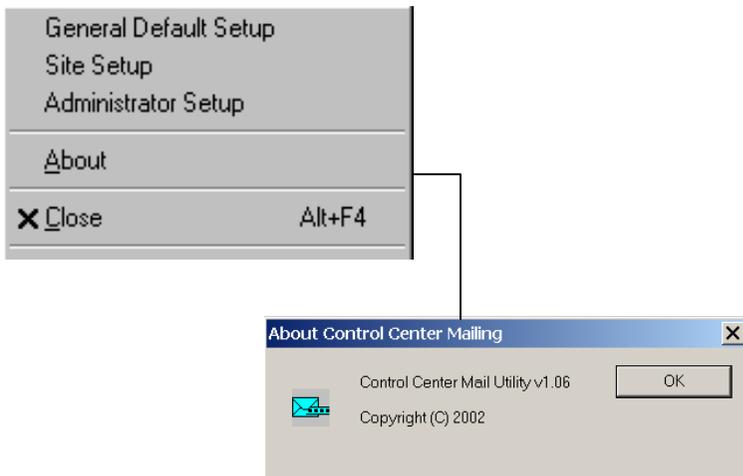
Step 6

Mailing Software Operation

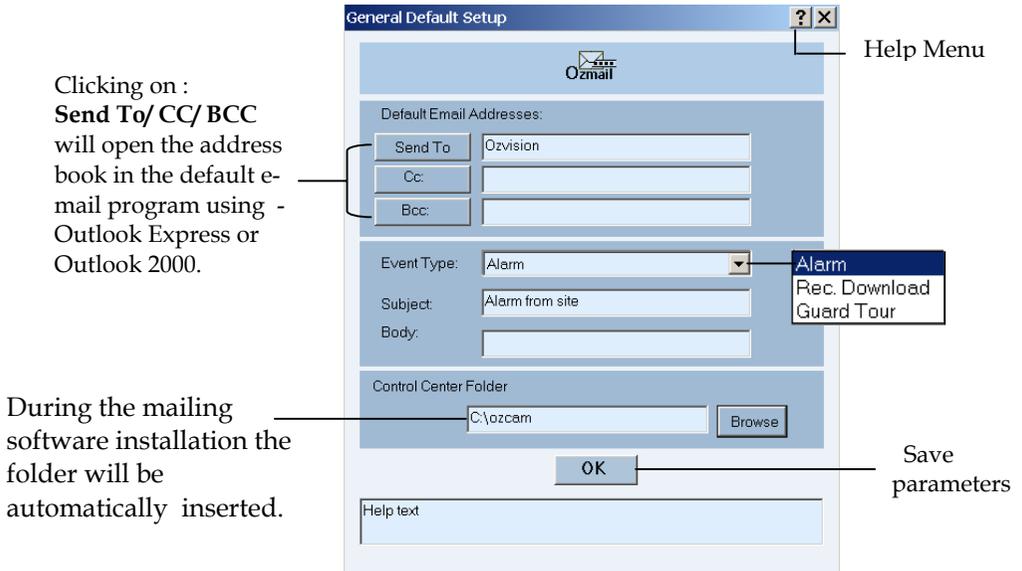
- Double click on OzVision Video Receiver Software icon.

The OzVision Video Receiver software will automatically activate the **Mailing** software. It will appear as shortcut icon in the system tray.

Right clicking on the Control Center Mail Utility icon  will open the system menu -



General Default Setup window



Default E-mail Addresses – Define the default address. You can also add more than one e-mail address, separated by semicolons. The maximum length should be no more than 70 characters. To send e-mail to a Group Address – see page 29.

Event Type – Choose the appropriate type of event : Alarm / Rec. Download / Guard Tour.

Subject – Each event has a default e-mail subject text :

Alarm – Alarm from site:

Rec. Download – Download Recorded frames from site :

Guard Tour – Guard Tour site:

You can change the Subject for each event.

Body - Each event has a default content that can be modified.

Note: Sensor number (Zone) will appear automatically at the end of the text.

Name of the camera will appear automatically in the end of the text.

Help Menu - Click on  icon and then click on the appropriate field for help.

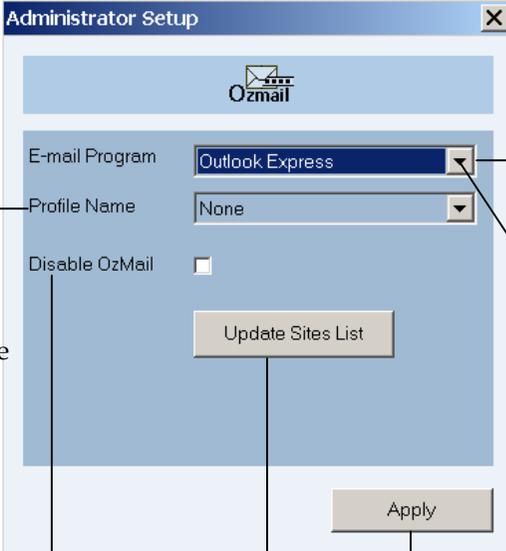
Site Setup Window

The screenshot shows the 'Site Setup' window with the following fields and buttons:

- Site Name:** A dropdown menu currently showing 'Ozvision'. An annotation points to it with the text: "Choose a site from the site list".
- Event Type:** A dropdown menu currently showing 'Rec. Download'. An annotation points to it with the text: "Select the Event Type: Alarm , Rec. download or Guard Tour".
- Name:** A text field currently showing 'Indefinite Sensor'. An annotation points to it with the text: "Type the sensor or camera NUMBER".
- Send To:** A text field currently showing 'alarm@OzMail.com'. An annotation points to it with the text: "Type the E-Mail address / Group or select from Address book".
- Cc:** An empty text field.
- Bcc:** An empty text field.
- Update Sites list:** A button located to the right of the Site Name dropdown.
- Save:** A button with a floppy disk icon, located at the bottom right. An annotation points to it with the text: "Save Parameters: Click to save the settings".
- Attach Files:** A button with a camera icon and a checkbox below it. An annotation points to it with the text: "Attach Files : Enables you to attach the recorded files to the e-mail".
- Prepare Mail:** A button with an envelope icon and a checkbox below it. An annotation points to it with the text: "Prepare Mail: Upon related sensor activation, an e-mail will be prepared".

Note : Save the parameters after defining **EVERY** sensor/camera.

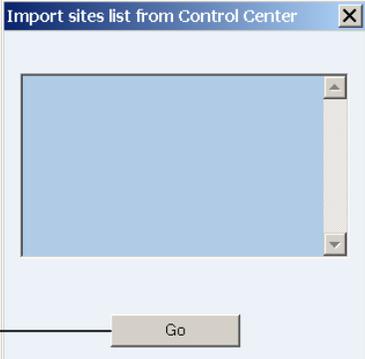
Administrator Setup Window



The Administrator Setup window contains the following elements:

- E-mail Program:** A dropdown menu currently showing "Outlook Express". An annotation points to it with the text: "Choose your default Mailing Program". A callout box shows the dropdown options: "Outlook Express" and "Outlook 2000".
- Profile Name:** A dropdown menu currently showing "None". An annotation points to it with the text: "Define your profile name while using the EXCHANGE".
- Disable OzMail:** A checkbox that is currently unchecked. An annotation points to it with the text: "If Checked, the Mailing Process will be disabled."
- Update Sites List:** A button located below the checkboxes. An annotation points to it with the text: "Click on the Update Sites List icon. An Import sites list window will be opened".
- Apply:** A button at the bottom right. An annotation points to it with the text: "Press this button to save the parameters".

Click on the *Update Sites List* icon. An *Import sites list* window will be opened



The "Import sites list from Control Center" window features a large empty rectangular area with a vertical scrollbar on the right side. At the bottom center, there is a "Go" button. An annotation points to this button with the text: "Click on GO button to import the Sites List from the OzVision Video Receiver Software".

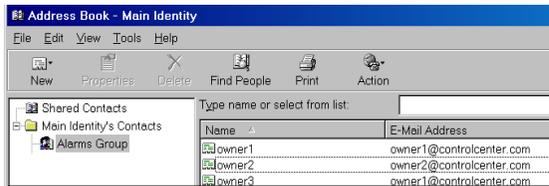
Click on GO button to import the Sites List from the OzVision Video Receiver Software

Note :

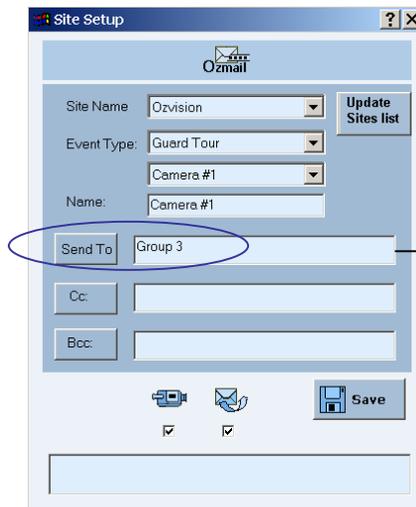
1. In case the Mailing Software is closed , The sites list will be automatically updated when the software is initiated again.
 2. If you update the sites list in the Receiver software while your Mailing Software is running , you still have to update the sites list manually.
-

Sending E-mail to a Group Address

- Create a Group in Microsoft Outlook 2000 (Tools/ Address book/ File / New Group).
- Add the appropriate addresses to this group and **save**.



- In the Mailing Software insert the Group name instead of the E-mail Address.



Note : Creating a Group Address is available **only** in Outlook 2000, that defined as a work group.

General

Computer Maintenance

It is recommended that you occasionally check the size of your mailing folders within Outlook Express or Outlook 2000.

1. **Delete** unnecessary e-mails in your Inbox and Sent Items folders.
2. **Empty** the Delete Items folder.
3. **Compact** : Inbox , Sent Items and Delete Items folders.

Compact (Outlook Express) : Choose folder / file / compact folder.

Compact (Outlook 2000) : Tools/Services/ Personal Folders/Properties/Compact Now.

For further details on how to Compact, Delete or Remove messages, please access the Microsoft Outlook Express or Microsoft Outlook 2000 Help menus.

System Icons

The mailing software icon will be changed according to the system status -



System is operating and enabled to prepare e-mails



System has started to receive messages from the Video Receiver Software.



System is receiving an alarm message



System Error – there is a problem in the mailing system or within Outlook. (It is recommended that you close the mailing system and to check Outlook)



The mailing process is disabled.

Step 7

Installing the OzPlayer

After entering a new subscriber to the OzMail services you should send your subscriber the OzPlayer.

The OzPlayer is a Video Viewer. The viewer only needs to be sent once to your subscriber and installed on his computer for all future use.



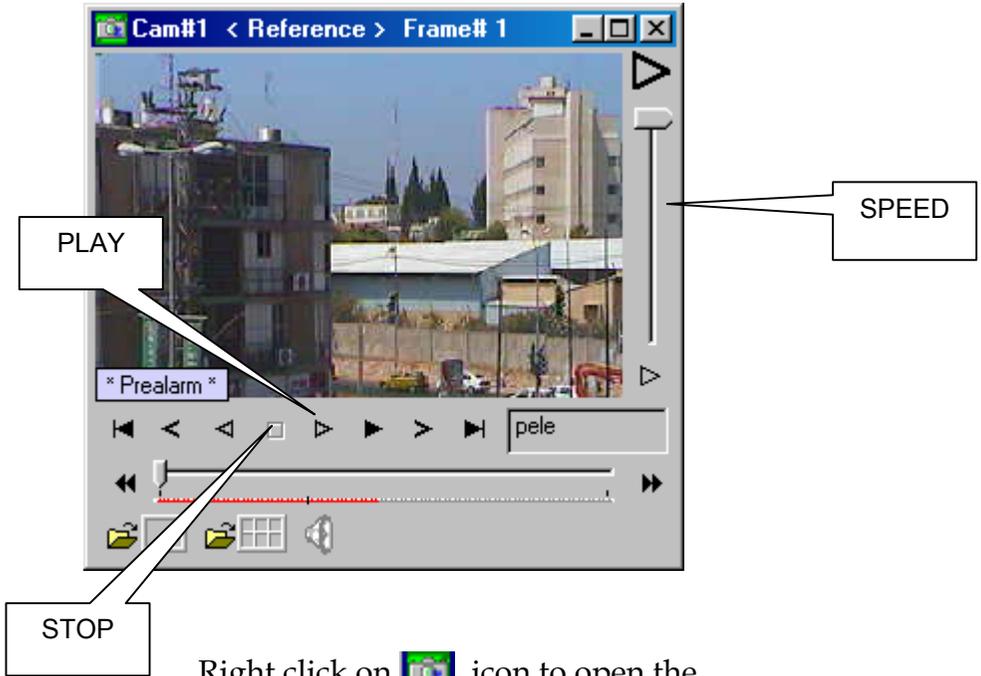
A “security warning” might appear upon installing the OzPlayInst.exe file.

Instruct your subscriber to click “Yes” and to continue with the installation.

Use this opportunity to add a note to your e-mail and to congratulate your subscriber for joining the NEW Video Services Revolution.

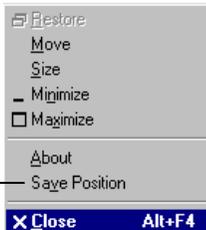
Operating the OzPlayer

The first e-mail that will be sent to your subscriber must contain operating instructions.



Right click on  icon to open the following window:

Save Window position on the screen



Hardware installation

OzLine 4

Basic instructions for hardware installation



1. Position the unit.
2. Connect the phone-line.
3. Connect the video cables to the BNC connectors.
4. Connect the control outputs.
5. Connect sensors to the unit directly or through an alarm system (optional).
6. Connect the video output to a monitor (optional).
7. Connect an Arm/Disarm button (optional).
8. Apply power (12-15VDC **1A** minimum).

It is very important to connect the power with the correct polarity.

OzLine TOP

Basic instructions for hardware installation



1. Position the unit.
2. Use the **Board layout** section at the end of this manual to connect all necessary wires to the unit.
 - a. Connect phone line (it is recommended to loop in and out the incoming phone line). {RJ11, J18 + J20 or TB, J19 + J20}
 - b. Connect the video cables to the BNC connectors {BNC, J1 - J12} (If you loop one or more of the videos to another device disable the appropriate 75Ω terminations using SW1 & SW2).
 - c. [Option] Connect the output relays 1 to 3 {J26} (If additional relays are needed, you will have to add the "Additional relays board". This connects to J27 and adds 8 relays to the system).

- d. [Option] Connect triggering inputs or sensors to the unit directly or through an alarm system {TB, J24 & J28}. Up to 16 inputs are available and can be set to 'Normally close' or 'Normally open' by the software.
- e. [Option] Connect the video output to a monitor {BNC J13}.
- f. [Option] Connect the Arm/Disarm switch {TB J32} (The Arm/ Disarm signals can be a constant or temporary signals directly from a switch, key or keypad, or from an output of an existing alarm system).
- g. [Option] Battery backup {TB J17} (Connect a rechargeable battery to this connector for safe and steady operation even during power failure).
- h. Apply power 210-240 VAC (There is an option to connect 15VAC directly to J14 or 12VDC to J17).
- i.[Option] Temper output to an existing alarm panel.

Applications

Children Watch



- * In a day care center
- * Under supervision of a nanny
- * Coming home alone from school

Opening and Closing Video E-mail



Video E-mail on Events



- *Opening the safe*
- *Back door opened*
- *Transaction cancellation*
- *Machine malfunction*

Scheduled Virtual Visits



A site may be visited 2, 3, 5..times a day and e-mailed. The subscriber chooses when and how often.



Subscribers can receive an E-mail from every tour, and ready for inspection in seconds.



V-RMR Video Recuring Monthly Revenue

US Video services pricing survey

- The following information is the result of a comparison survey of video services pricing by U.S. monitoring stations and dealers that provide OzVision's video services.
- In no way should this be considered a recommendation for pricing of the services.
- Some dealers are publicizing pricing that includes leasing of the video transmitter. We did our best to separate the leasing price and include on pricing on services.
- The pricing is based on integration of OzVision's Video Services into the automation software of the monitoring station.
- All timings and file sizes that have been calculated are based on OzVision's technology.

General pricing (Basic form)

Service	Monitoring Station to Dealer	Dealer to End User
False alarm verification	6 - 12\$	16 - 29\$
Events & opening / closing OzMail	6 - 8\$	16 - 26\$
Live connection by user	1.5 - 2.5\$	5 - 7\$
COMBO	10 - 16\$	24 - 34\$

Detailed pricing (With options)

Option	Service	Monitoring Station to Dealer	Dealer to End User
False Alarm Verification			
1	Flat fee (up to 5 alarms per month)	6 - 12\$	16 - 29\$
	Additional alarm per month	1 - 1.5\$	4 - 5\$
2	Per camera	1.2 - 1.75\$/per camera	4.5 - 6\$/per camera
3	Per unit		
	OzLine-4	4 - 7\$	15 - 21\$
	OzLine-TOP	9 - 13\$	20 - 34\$

Option	Service	Monitoring Station to Dealer	Dealer to End User
Guard Tour			
1	Flat fee (2 tours per night)	15 - 21\$	40 - 55\$
	Additional tour per night	6 - 9\$	15 - 19\$
2	Total tour time per month	0.45 - 0.95\$/minute	1.3 - 1.75\$/minute
Opening / Closing OzMail			
	Only Morning and Night (60 per month)	6 - 8\$	16 - 26\$
	Mid-day break (Additional 60)	3 - 4\$	8 - 13\$
OzMail on Event			
	Flat fee (up to 60 events per month)	3.5 - 5.5\$	10 - 15\$
	Additional 30 events	2 - 3\$	6 - 8\$
	For an additional e-mail address	1.1 - 1.4\$	3 - 5\$
Scheduled OzMails			
	Flat fee (60 per month)	6 - 8\$	16 - 26\$
	Additional 60	3 - 4\$	8 - 13\$
	License for Live connection by user	1.5 - 2.5\$	5 - 7\$
	Resending of OzMail from the last two months	2 - 2.5\$	6 - 7\$

OzVision

OzVision has opened new opportunities for central stations and alarm dealers by imitating the digital dialer revolution that began 20 years ago.

With OzVision's Remote Digital Video Dialer, we have developed a V-RMR (Video - Recurring Monthly Revenue) machine that will enable central stations and alarm dealers to generate recurring revenue from remote video services.

By working directly with the leading automation software providers and integrating OzVision into their software, OzVision has become the de facto standard in the market.

Video Communication

What is Quality of Video ?

Video quality allows the viewer to see what they want to see, when they want to see it and with the level of detail they need.

This ability is very important in remote management and security applications where the details of the events can be vital.

Using OzVision's patented ME-JPEG technology, the user decides the quality of video he needs.

In contrast, the quality of the standard MPEG-4 will drop every time there is movement in the frame. When there is no motion, the video quality will be high and rapid. When there is motion in the frame, the area of the motion will become blurry until the image stops moving.

Resiliency to bad communication lines:

The ME-JPEG is highly resilient to bad communication lines such as RF radios, cellular phones with bad reception, and old telephone networks.

The MPEG-4 bases each picture on the previous pictures, which leads to a fault in one of the frames and corrupts several of the following frames. The ME-JPEG on the other hand - where every frame update stands for itself - does not influence consecutive frames.

OzVision's Technology

OzVision has developed a unique innovative and proprietary technology that provides the ability to stream high quality video, using lower bandwidth and computing power.

Far superior to any other system or algorithm available in the market, OzVision's technology offers:

- Lower communication costs.
- More efficient use of the bandwidth in broadband networks.
- Higher streaming video quality over low bandwidth networks.
- Revolutionary low cost, up-streaming systems.
- Very high cost-affective ratio.

OzVision's advanced technology has two basic elements:

ME-JPEG (Video streaming algorithm):

OzVision's patent unique **Motion Estimation JPEG compressing and streaming algorithm**, is based on enhancing the high quality video that JPEG compression delivers with OzVision's unique motion estimation technique. ME-JPEG utilizes a lower bit rate and lower computing power than any other video-streaming algorithm available.

The ME-JPEG provides a high, constant, quality video stream over any (low, high and changing) bandwidth. At the same time, ME-JPEG uses a lower bandwidth in a broadband network as compared with other algorithms with the same video quality. The ME-JPEG is unique in its very low computing power requirements for the compression and decompression of video. The ME-JPEG has proven to be ideal for streaming video over the Internet & Intranet and over 2G & 2.5G cellular networks. The low computing power requirement enables the use of a handheld PDA for viewing and very low cost hardware on the transmission side.

The unique benefits of the ME-JPEG is achieved by performing highly complex filtering and motion detection on the live video feed, which sends only the motion-detected areas to the unique approximate DCT with proprietary quantization and Hoffman tables, JPEG codec. By these methods and others, the ME-JPEG reduces the computing power needed for compressing and streaming of the video and improves the bit per pixel ratio considerably. The ME-JPEG also includes a feedback loop that controls the bitrate in correlation to the available bandwidth.

MEVI (Motion Estimation JPEG Voice Integrated) CODEC.

MEVI is a new CODEC that integrates OzVision's ME-JPEG streaming video compression with a standard vocoder to provide a mixed stream of compressed audio and video. The characteristics of the MEVI are similar to OzVision's ME-JPEG concept, constant quality, low bitrate and low computing power.

The audio vocoder that was selected for the MEVI is the well-established FED-STD 1016 CELP G-729 4.8 Kbps vocoder. This vocoder was selected due to its unique characteristics: Low bitrate and high frequency response. The unique characteristics needed for the MEVI, which includes compression of good quality speech without canceling the background noise, are not found in other vocoders available.

Hardware core technology

The low gate count and low power consumption of the *Vwiz* (OzVision's ASIC PSOC chip) is achieved by the unique architecture of the video processing hardware core. This architecture is based on a three processor core; constructed from three orthogonal processors.

1. The real time processor (developed by OzVision) performs the live video grabbing motion detection and filtering.

2. The DSP processor acts as a coprocessor for performing the DCT transform and other JPEG related calculations.
3. The RISC processor serving as the main CPU and as the controller of all system parameters, communication, inputs and outputs of the system.

This unique architecture of the video processing hardware core provides a very low cost hardware solution in current OzVision products. This solution is based on an off the shelf, low cost AM267 chip that contains a DSP and a RISC processor and small FPGA chip running OzVision's real-time processor. While the rest of the world is using the AM267 only for answering machine applications, OzVision is the only company using this CHIP for a more complex usage.