



Microinvest Camera Transmitter + Geo Vision Video Surveillance

Instructions for installation Version 1.0







Introduction

Microinvest is among the first companies, which made integration between POS software system and standard surveillance system.

About the system

In every store, restaurant or retail chain, the system for automation of selling and commercial activities and the system for video surveillance work simultaneously, yet, in most cases, without being able to synchronically communicate with each other. *Microinvest* has managed to combine these systems in their core essence, namely their controlling part, in order to provide a fully optimized comprehensive solution for your business. One of the main aspects of the direct communication achieved between the two systems is the ability of the retail software to send every performed activity to the video surveillance software, which displays the received data as subtitles for the operations, which are being video-monitored. Thus, not only are the actions and behavior of the personnel recorded, but also additional information, such as quantities, prices, discounts and special operations (deleting (void), change giving) related to products, is recorded. As an effect, the possibility of a barcode being fraudulently replaced, or certain products being scanned, deleted and then fraudulently replaced with the codes of cheaper ones, is completely eliminated. What is more, in each moment when a given product was sold can be easily re-viewed in the system records if there is a need to track missing products or check for potential fraud.

This innovative coherent retail-video surveillance system is integrated in Microinvest Warehouse Pro Light. For this purpose, the huge potential of **Geo Vision** plates and their standard software are used. The system is capable of transmitting data through RS232 or LAN, as reliability and security are top priorities.







Basic advantages of the system

- 1. A possibility for upgrading the already working video surveillance system;
- 2. Functionality is directly integrated in *Microinvest* software;
- 3. No need for additional investment in hardware;
- 4. Building up the system on entirely software level;
- 5. Each action of the software could be recorded on video tape;
- 6. A possibility for choosing a sequence of frames by criteria "sold item".

Further information concerning the implementation process and the necessary preparation for installation of the product can be obtained from *Microinvest* offices or the company representatives.





CONTENTS:

1. System requirementsp. 5
2. Installation and settings of the server for video surveillance/ Installation and setup of the
server for video surveillancep. 6
2.1. Installation of <i>Microinvest</i> Camera Transmitterp.7
2.2. Setup of Null-modem emulator (com0com)p.8
2.3. Setup of video surveillance software Geo Vision Systemp.11
2.4. Setup of Microinvest Camera Transmitterp.14
3. Installation and setups of a customer terminalp. 18
3.1. Setup of Microinvest Warehouse Pro Lightp. 17
4. Searching for a video record by a specific itemp. 20





System requirements

Software requirements:

1. Operating system Microsoft Windows XP or later;

- 2. NET Framework 2.0;
- 3. *Microinvest* Camera Transmitter;
- 4. Installed and configured *Microinvest* Warehouse Pro Light;

5. Installed and configured software for video surveillance **Geo Vision version 7** or higher version;

6. Static IP address of the computer, on which is installed *Microinvest* Warehouse Pro Light;

7. Static IP address of the computer, on which is installed the video surveillance software (the video server)

Hardware requirements:

1. A computer that meets the requirements of *Microinvest* Warehouse Pro Light;

2. A computer that meets the requirements for board and video surveillance software of **Geo Vision**;

3. Configured network connection between the computer hosting the video surveillance software and the computers that have installed *Microinvest* Warehouse Pro Light





Installation

I. Installation and settings of the video surveillance server.

1. Install *Microinvest* Camera Transmitter on the computer that is used for video surveillance

Installer Language	
Please select a language.	
English	
OK Cancel	
📀 Camera Transmitter Setup	
License Agreemer Please review the li Transmitter.	nt cense terms before installing Camera
Press Page Down to see the rest of the agreeme	nt.
βefore registering the product(s) purchased, ple entering of the licence number provided by MIC accepted the terms of the Licence Agreement.	
LICENCE AGREEMENT	
The licence agreement for using of set of pro called SOFTWARE below, presents an agreemen person and MICROINVEST Ltd.	
If you accept the terms of the agreement, click I agreement to install Camera Transmitter.	Agree to continue. You must accept the
Microinvest Camera Transmitter	
	I Agree Cancel





	om0com) Setup 🛛 🔓		
License Agreement Please review the license terms	before installing Null-modem	emulator (com0com).	
Press Page Down to see the re:	st of the agreement.		
GNU GENERAL PUBLIC LICENS Version 2, June 1991	E.		
Copyright (C) 1989, 1991 Free 59 Temple Place - Suite 330, B			
Everyone is permitted to copy of this license document, but c		5	
Preamble The licenses for most software	are designed to take away y	our freedom to share a	and 🔽
If you accept the terms of the	agreement, click I Agree to co	2.07	
agreement to install Null-moden	n emulator (com0com).		
ullsoft Install System v2,44	~		
	< Back	I Agree	Cancel
Null-modem emulator (c	om0com)Setup	×	
Null-modem emulator (c Choose Components	om0com)Setup 🛛 🔓	-	
0.05 55		ou want to install,	
Choose Components	modem emulator (com0com) y		vant to
Choose Components Choose which features of Null-r Check the components you war	nodem emulator (com0com) y	omponents you don't v	
Choose Components Choose which features of Null-r Check the components you war install, Click Next to continue.	nodem emulator (com0com) y nt to install and uncheck the c com0com Start Menu Shortcuts	omponents you don't v Description Position your m over a compone	ouse ent to
Choose Components Choose which features of Null-r Check the components you war install, Click Next to continue.	modem emulator (com0com) y nt to install and uncheck the c	omponents you don't v Description Position your m	ouse ent to
Choose Components Choose which features of Null-r Check the components you war install, Click Next to continue.	nodem emulator (com0com) y nt to install and uncheck the c com0com Start Menu Shortcuts	omponents you don't v Description Position your m over a compone	ouse ent to
Choose Components Choose which features of Null-r Check the components you war install. Click Next to continue. Select components to install:	nodem emulator (com0com) y nt to install and uncheck the c com0com Start Menu Shortcuts	omponents you don't v Description Position your m over a compone	ouse ent to
Choose Components Choose which features of Null-r Check the components you war install, Click Next to continue.	nodem emulator (com0com) y nt to install and uncheck the c com0com Start Menu Shortcuts	omponents you don't v Description Position your m over a compone	ouse ent to
Choose Components Choose which features of Null-r Check the components you war install. Click Next to continue. Select components to install:	nodem emulator (com0com) y nt to install and uncheck the c com0com Start Menu Shortcuts	omponents you don't v Description Position your m over a compone	ouse ent to

In the installation process virtual COM ports will be mounted as new hardware devices.

Microinvest



2. Setup of the Null-modem emulator (com0com)*

*NOTE: If you are using Windows Vista or later, turn off the User Access Control (UAC) from Start -> Run -> type in MSCONFIG. Select the Tools tab and then Disable UAC and click the Launch button. Close the System Configuration window and restart your computer.

From the Start menu select Programs->com0com->Setup		
Setup for com0com		
 ■ Virtual Port Pair 0 CNCA0 CNCB0 	CNCA0 emulate baud rate enable buffer overrun enable plug-in mode enable exclusive mode enable hidden mode RX TX TX DTR DSR DCD RTS CTS RI OUT1 OUT2 OPEN ON	CNCB0 emulate baud rate enable buffer overrun enable plug-in mode enable exclusive mode enable hidden mode RX TX RX TX DTR DTR DSR DCD RTS CTS RI OUT1 OUT2 OPEN
Add Pair Remove	Reset	Apply

After the installation there should be a pair of virtual COM ports.

Rename them to COM7 and COM8 (those should be available in the system and not being used by then). Click the checkbox next to "enable baud rate" and "enable buffer overrun" for both COM ports and click the Apply button.

Setup for con	nOcom (CHANGE)	×
The port name	COM8 is already us	ed for other devic	e.
Cancel	Try Again	Continue	

If during the installation of the virtual COM ports a message that the COM port is already used is displayed, click the Continue button, provided there is no device attached to this computer.







Such pair of COM ports should be set for each camera that is going to be used.

In order to add a new pair of virtual COM ports, select Add Pair.

Found New Hardware Wizard		
Please wait while the wizard installs the software		
com0com - serial port emulator		
	\triangleright	
	< Back Next > Cancel	







Select "Install the software automatically" and click "Next"

Found New Hardware	Your new hardware is installed and ready to use.

The new virtual COM ports are added as new hardware devices.



Microinvest







2. Setting up the video surveillance software Geo Vision System

In order to change the settings, stop the video recording – "Stop All Video Recording"







From the Setup menu choose POS Application Setting -> POS Device Setup

5 Server Sel	tup			
New	Modify Delet	e	Te	xt Setup
Device	Mapping Cam.	. COM Port	Baud Rate	POS
POS 4	Camera 4	COM 9	9600	Epsi
POS 2	Camera 2	COM 7	9600	Eps
		ĥ	\$	
4				Þ
	0	K Can	icel	

Click "New"





Printer Type : Serial Port
Device :
Mapping Camera :
POS Module:
COM Port :
9600,None,8,1
Cash Drawer open signal
Use Codepage Mapping
_
Trace mode
Add Cancel

From dropdown menu **Device** select number **POS1/2/3/4**, etc. That number corresponds to the camera's number on which the data should be displayed.

From dropdown menu POS Module select Epson.

From dropdown menu **COM port** select the <u>second</u> COM port from the pair of the virtual COM that you created (in this case – number 8).

Printer Type :	Serial Port 💌
Device :	POS 3 💌
Mapping Camera :	Camera 3 🔽
POS Module	Epson
COM Port :	COM 8
960	00,None,8,1
⊢ ⊟ Cash Draw	er open signal
	· ·
🖳 🗖 Use Codep	age Mapping
	_
🗖 Trace mode	
Add	Cancel

Click the "Add" button





3. Setting up the *Microinvest* Camera Transmitter Start *Microinvest* Camera Transmitter from the desktop:

Microinvest Car	mera Transmitter		X
IP	Prefix	Port	Hide
192.168.1.55		СОМ6 🖵	Delete
		СОМ1 💌	
		COM1 -	Exit
		COM1 -	
		COM1	
		COM1 -	
		COM1 -	
		COM1 -	
		СОМ1 💌	
		COM1 -	
		СОМ1 💌	
Language	English	•	v. 1.1
			*
1			-

In the **IP column** type in the **IP** address of the computer, which has the *Microinvest* **Warehouse Pro Light** installed and from which the data will be obtained.

In the **Prefix column** you could write a title or a note for this computer.

In the **Port column** select the number of the <u>first</u> **COM** port form the virtual COM pair of ports that you created.

In order to check whether the video transmitting is working properly, click the demonstration button. The setting is available only in certain languages (Bulgarian and Russian).







Microinvest Camera Transmitter and Geo Vision System in Demonstration mode

To exit the demonstration mode click the "**Exit**" button from the *Microinvest* Camera Transmitter program.







Choosing Text Alignment, Font and Font color



From the Setup menu select Text Overlay Setting -> POS Device Setup





Text Overlay Setting	×
POS Text Print on video file Print on screen	Camera/Time Text
Text Alignment C Left Upper left-hand corner Lower left-hand corner Right Upper right-hand corner Lower right-hand corner	Text Alignment C Upper left-hand corner C Lower left-hand corner Upper right-hand corner C Lower right-hand corner Set Font
Clean time 5 sec. 🛄 Dwell time 5 sec. 🛄	✓ Apply Stereo Font OK Cancel

From this window you can set the text alignment and choose whether the text should be displayed on the video record as well as on the screen (Tick check box "**Print on video file**") To set the color and font choose **Set Font**

Font				?	×
Font: Aria O Arial Black O Comic Sans MS Courier O Courier New O Estrangelo Edessa Fixedsys	Font style: Bold Regular Italic Bold Bold Italic	Size: 6 9 10 11 12 14 16	•	OK Cancel	
Effects Strikeout Underline Color:	Sample An ED EO to p Script: Cyrillic		- -		

For example – the current settings are: Font Arial, Font Style Bold and Size 6 pt.





II. Installation and setup of a client terminal

Registered ISO 9001:2000

The computer, which will send the signal, should have installed and configured *Microinvest* Warehouse Pro Light, as well as a configured network and ensured access to the video surveillance server.



1. Setup of Microinvest Warehouse Pro Light

Click the Setup button





Setup		×				
Main	Hardware devices	Special				
Fiscal/Receipt printer	Datecs MP-55M					
Fiscal/Receipt printer	Video Surveillance TCP	_				
Customer's display						
Customer's display						
Electronic scale						
Electronic scale						
Payment terminal						
Pager						
Kitchen printer	Datecs FP 1000KL	•				
Fiscal/Receipt printer -> Video Surveillance TCP						
IP	192, 168, 1, 99	▲				
IP port	7001					
Encoding	Default					
Upper case	Disable					
Groups - items	Default					
Templates						
Header 1						
Header 2		-				
Test - fiscal/receipt p	inter Test - templa	ates Default				
	Save Cancel]				

Select Cash register

From the **Fiscal device**, **Customer's display or Kitchen printer** dropdown menu (depending on the data source device), choose **Video Surveillance TCP**, in the **IP** row type in the **IP** address of the server for video surveillance.

Click Save.

When choosing an item (Save order or Finish order) the data should be displayed on the video record.





Searching for a video record with a particular item

Registered ISO 9001:20

Start the software for video surveillance Geo Vision System.



Form the Search menu click Search POS Data.



Click the **Search** icon.





Search		X
Find Text		
Absolut	•	
POS Event		
Transaction Start	7	
Start Time		
12.11.2009 r. 🔽 12:25:47	*	
Rule		
Forward	•	
Go Cancel		

Click the **Find Text** check box and type in the name of the item.



Select the found record for this item and click **Play**, in order to go through it.