



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.





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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 Languag	e X		
Pleas	e select a language.		
Engl	ish 🔹 🔻		
	OK Cancel		
🕓 Camera Trar	nsmitter Setup		
	License Agreement Please review the lice Transmitter.	t ense terms before installing Cam	iera
Press Page D	own to see the rest of the agreement	t.	
βefore regist entering of t accepted the	tering the product(s) purchased, pleas the licence number provided by MICRO e terms of the Licence Agreement.	se read the Licence Agreement. DINVEST Ltd. means that you ha	The A
	LICENCE AGREEMENT		
The licen called SOFTV person and N	ice agreement for using of set of prog NARE below, presents an agreement MICROINVEST Ltd.	rams, databases and document between you as a physical or ju	ation, ridical
If you accept agreement to	t the terms of the agreement, dick I A o install Camera Transmitter.	gree to continue. You must acc	ept the
Microinvest Cam	era Transmitter		
		I Agree	Cancel





) Null-modem emulator (c	om0com)Setup 🛛 🔓		
License Agreement Please review the license terms	s before installing Null-moder	n 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	e Software Foundation, Inc. ioston, MA 02111-1307, US	A	
Everyone is permitted to copy of this license document, but o	and distribute verbatim copi hanging it is not allowed.	es	
Preamble The licenses for most software	e are designed to take away	your freedom to share a	and 🔽
If you accept the terms of the	agreement, click I Agree to	continue. You must acce	pt the
agreement to install Null-moder	m emulator (com0com).		
ullsoft Install System v2,44			
	< Back	I Agree	Cancel
Null-modem emulator (c	om0com) Setup	<	
Choose Components		16	-
Choose which features of Null-	modem emulator (com0com)	you want to install.	
Check the components you wa install, Click Next to continue,	nt to install and uncheck the	components you don't v	vant to
Coloct components to install		Description	
Select components to install;	Start Menu Shortcuts	Position your mo	ouse ant to
	CNCA0<->CNCB0	see its descripti	on.
Space required: 253.0KB			
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	7.57456.438		121010511416

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

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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->com	10com->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 com	Ocom (CHANGE	.)	X
The port name (COM8 is already us	ed for other dev	ice .
Cancel	Try Again	Continue	ſ.

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	2
Please wait while the wizard installs th	ne 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.



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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

New	Modify Dele	te	Te	xt Setup
Device	Mapping Cam	COM Port	Baud Rate	POS
POS 4	Camera 4	COM 9	9600	Eps
POS 2	Camera 2	COM 7	9600	Eps
		بل ا	ţ	
(1	F

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	
9600,None,8,1		
Cash Drawer 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	nera Transmitter		×
IP	Prefix	Port	Hide
192.168.1.55		СОМ6 🗨	Delete
		COM1 -	
		COM1 💌	Exit
		COM1 💌	
		COM1 -	
		COM1 💌	
		COM1 💌	
Language	English	•	
			*
]			-

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 O Upper left-hand corner Upper right-hand corner C Lower right-hand corner C Lower right-hand corner Set Font
Clean time 5 sec. 🛄 Dwell time 5 sec. 🛄	✓ Apply Stereo Font OK Cancel
	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 8 9 10 11 12 14 16 •	OK Cancel
Effects Strikeout Underline Color:	Sample An ED EX CO 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	rinter 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		×
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.