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Configuring Windows 7 – 64 bit for AutoVISION

Precision Data Acquisition and Control Solutions

This document will describe how to configure a 64 bit version of Windows 7 Professional, Ultimate or Enterprise to utilize the Windows XP Mode (Virtual PC) capabilities to allow AutoVISION to be used in a 64 bit operating system.

Windows XP Mode and AutoVISION installation

- 1. Go to <u>http://windows.microsoft.com/en-us/windows7/install-and-use-windows-xp-mode-in-windows-7</u> and follow the instructions on this web page to install Windows XP Mode and Windows Virtual PC.
- After Windows XP Mode and Windows Virtual PC are installed and the computer reboots, Go to the Windows 7 Start menu > All Programs > Windows Virtual PC > Windows XP Mode as shown in picture
 - 1. Allow Windows XP Mode to configure itself for use.



- 3. Right click on the desktop in Windows XP Mode and select New > Folder. Rename this folder to Install AutoVISION.
- 4. Double click on the Install_AutoVISION folder. Copy the SetupAutoVISION.exe to the Install_AutoVISION folder.
- 5. Double click SetupAutoVISION.exe to start the software installation. The installation may take 15 to 20 minutes and Windows XP Mode will reboot a couple of times.

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 After the AutoVISION software is installed, go to the Windows XP Start Menu > Control Panel. Select Network and Internet Connections, right click on the Local Area Connection and select Properties as shown in picture 2.



 Select Internet Protocol (TCP/IP) and click the Properties button. Select Use the following IP address. Change the IP address to: <u>192.168.0.2</u> and Subnet mask to: <u>255.255.255.0</u> as shown in picture 3. Click the OK button to close the Internet Protocol (TCP/IP) Properties and click OK to close the Local Area Connection Properties window.

ieneral		
You can get IP settings a this capability. Otherwise, the appropriate IP setting	ssigned automatically if your network supp you need to ask your network administrat s,	orts or fo
Obtain an IP addres	s automatically	
📧 Use the following IP	address;	
IP address:	[192,168,0,2	
Subnet mask:	255 . 255 . 255 . 0	
Default gateway:	<u> </u>	
O Obtain DNS server	address automatically	
💿 Use the following DI	NS server addresses:	
Preferred DNS server:		
Alternate DNS server:	<u> </u>	
	A Provi	Local I

8. At the top of the Windows XP Mode window select Tools > Settings... as shown in picture 4.

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Action 👻 USB 🕶	Tools Ctrl+Alt+Del
	Disable Integration Features
	Settings

- 9. With the Windows XP Mode Windows Virtual PC Settings window open, click on the **Ctrl-Alt-Del** in the Windows XP Mode window and select **Shut Down**.
- 10. In the Windows XP Mode Windows Virtual PC Settings make the following changes:

Change the **Memory** to <u>1024</u> MB.

		Picture 5
Windows XP Mode - Wi	indows Virtual PC Setting:	
Setting	Current Value	Aleman .
Name	Windows XP Mode	Memory
Memory	512 MB	
Hard Disk 1	Windows XP Mode	Allocate memory for this virtual machine.
Hard Disk 2	None	
Hard Disk 3	None	Memory (RAM): 1024 MB
🔄 Undo Disks	Disabled	
DVD Drive	F:	Available memory: 3,509 MB
TCOM1	None	The set of the second of the s
📅 COM2	None	
🔮 Networking	Network adapters:1	
🕵 Integration Features	Auto Enable	
Keyboard 💭	Full screen	
P Logon Credentials	Saved	
Auto Publish	Enabled	
Close	Hibernate	

Change **Networking - Adapter 1** to use the wired Ethernet adapter on the PC as shown in picture 6.

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Change **Close** to Shut Down. Click **OK** to save these settings and to close this window. Picture 7

Setting	Current Value	Class
Name Memory Hard Disk 1 Hard Disk 2 Hard Disk 3 Undo Disks DVD Drive COM1 COM2 Networking Integration Features Keyboard Logon Credentials Auto Publish Close	Windows XP Mode 1,024 MB Windows XP Mode None Disabled F: None None Network adapters:1 Auto Enable Full screen Saved Enabled Hibernate	Close Automatically close with the following action: Hibernate Hibernate Stati down Turn offtw hibernate, shutdown or turn off the virtual machine.
		You can choose the action to take when you close a virtual machine.

Using AutoVISION with the Emulator

1. In Windows 7, select Start menu > All Programs > Windows Virtual PC > Windows XP Mode.

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- 2. In Windows XP Mode double click the AutoVISION icon on the desktop.
- 3. In the Connect field, select the Emulator and use as described in the AutoVISION documentation.

NOTE: Before running the AutoVISION job on the Emulator, the camera should be configured to be triggered using Virtual 1 as shown in picture 8. This is to prevent 100% virtual CPU usage, which will cause the AutoVISION user interface to stop responding to the mouse.

		Picture 8		
Microscan AutoVISION®: Emul	lator <current been="" has="" job="" not="" se<="" th=""><th>aved></th><th></th><th></th></current>	aved>		
File Help 🧐 🏓 🛃				0
Connect Emulator Edt mode	Image Ed	it Run	\rightarrow	MICROSCAN
A Job		ocr 🌍 😅 🌬		
752 x 480 pixels 8 bit Grayscale Inspection Outputs Alint Select a device to start editing a job			UtoVISION T 123458 TE 04/2011 VISION SIMPLIFIED	¢
	Virtual Virtual 1	Photometry Exposure	Focus	Lighting Strobe 1
	Polarity Low->High	Gain		Camera Definition VisionHAWK 752x480 CMOS V
Emulator		99 63,1		

If the camera is set to use Virtual 1 as the trigger, the user can trigger the inspection by clicking on the square wave icon.

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Using AutoVISION with a Vision HAWK smart camera

- 1. Connect the Vision HAWK Ethernet cable to the PC and apply power to the Vision HAWK smart camera. Wait until the camera has started (up to 2 minutes).
- 2. In Windows 7, select Start menu > All Programs > Windows Virtual PC > Windows XP Mode.
- 3. In Windows XP Mode double click the AutoVISION icon on the desktop.
- 4. In the Connect field, select the Vision HAWK and use as described in the AutoVISION documentation.

Using AutoVISION with a Vision MINI smart camera

- 1. In Windows 7, select Start menu > All Programs > Windows Virtual PC > Windows XP Mode.
- 2. Apply power to the Vision MINI smart camera; once the camera has started (after approximately 1 minute) connect the Vision MINI USB cable to the PC.

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Action 🔻	USB 🔻 Tools 🕶 Ctrl+Alt+D	el
	Generic Composite CDC-EEM	Attach
Ubauda Ria	5880	Attach
Weles Dig:	Unidentified Device	Attach

- 3. At the top of the Windows XP Mode window select **USB** and select **Generic Composite CDC-EEM Attach**. (*This has to be done every time the Vision MINI is rebooted when Windows XP Mode is active.*)
- 4. The first time that a Vision MINI is connected a Found New Hardware Wizard will appear. Follow the prompts to install the USB driver required for the Vision MINI.



- 5. In Windows XP Mode double click the **AutoVISION** icon on the desktop.
- 6. In the Connect field, select the Vision MINI and use as described in the AutoVISION documentation.

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