

VIDOS Monitor Wall

Installation and Operating Manual



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1

Introduction

About this manual

This section is intended for persons who will set up the VIDOS Monitor Wall program. The manual describes how to set up and start using VIDOS Monitor Wall.

VIDOS Monitor Wall is an add-on program for the VIDOS video management system. It is installed on a separate PC integrated into the VIDOS system. Within the VIDOS system, VIDOS Monitor Wall is treated as a hardware decoder, although it allows the video data to be played back on digital monitors connected to this PC.

This document assumes that you are familiar with the VIDOS system and with the VIDOS and Configuration Manager programs.

Conventions in this manual

The following symbols and notations highlight important situations and information:



Warning!

Security instructions where non-compliance can result in loss of data are marked with this symbol.



Note

This symbol indicates special features and provides tips and information for easier, more convenient use of the software.

Terms that you can find in the program, e.g. menu options or commands, are written in **bold**.

References to other documents or other points in this document are written in SMALL CAPITALS.

If you have any questions about the programs from the VIDOS Pro Suite, you can find further information on the Internet at:

www.vidos.net

There, you will also find information about new releases or manual versions. You can also submit your suggestions and comments relating to this document so that these can be taken into account for future editions.

Minimum requirements for installation and operation

Hardware:	Personal computer
CPU:	Minimum Pentium IV, 3.0 GHz
Hard disk interface:	IDE or better
RAM:	256 MB
Operating system:	Windows XP Home / XP Professional
Graphics card:	– NVIDIA GeForce 6600, 6800, 6800 GT, 7800, NVIDIA FX 1400, 4400 – ATI RADEON X750, X800, X850 – or similar
Ethernet network card:	100 MBit
Sound card:	Recommended
Software:	DirectX 9.0c VIDOS 3.0 on an additional PC
Free hard disk space: (for installation)	45 MB (.NET environment, MPEG-ActiveX, VIDOS Monitor Wall)

These specifications represent the minimum requirements. The higher the resolution displayed and the number of monitor windows, the higher the required processor power of the PC on which VIDOS Monitor Wall is installed. Below you will find an example configuration to give you a starting point for calculating the requirements for your system:

Example configuration:	Pentium D (840) PC, 3.2 GHz, 1 GB RAM (667 MHz), graphics card NVIDIA FX 4400
Replay:	– 5 x 4CIF MPEG-4 or – 10 x 2CIF MPEG-4 or – 20 x CIF MPEG-4

Additional documentation

The VIDOS Monitor Wall program is installed on a PC that is connected via a network to a computer on which the VIDOS program is installed. Configuration is carried out using VIDOS and the Configuration Manager. The program is operated using VIDOS.

You should therefore also refer to the following documentation:

VIDOS	Describes the basic setup of the system, e.g. integration of cameras, setting up salvos and planning recordings.
Configuration Manager	Describes additional configuration options.
Site maps	Describes the creation of site maps in VIDOS.
VIDOS IntuiKey	Describes the use of the BOSCH IntuiKey® digital control panel in conjunction with VIDOS.
Camera documentation	You obtain separate documentation for each camera from the manufacturer.
VideoJet, VIP, etc.	You obtain documentation for each device from BOSCH. This explains the typical device settings.

This document is aimed at the administrator of a system. The following section contains all the information required to install and set up VIDOS Monitor Wall. VIDOS Monitor Wall is treated as a hardware receiver in the VIDOS system.

The program is operated using VIDOS. The user has all the options assigned by the rights configuration in the VIDOS system. These options are described in the MONITORING section in the separate documentation for VIDOS and in the VIDOS INTUIKEY documentation and therefore are not dealt with in more detail here.



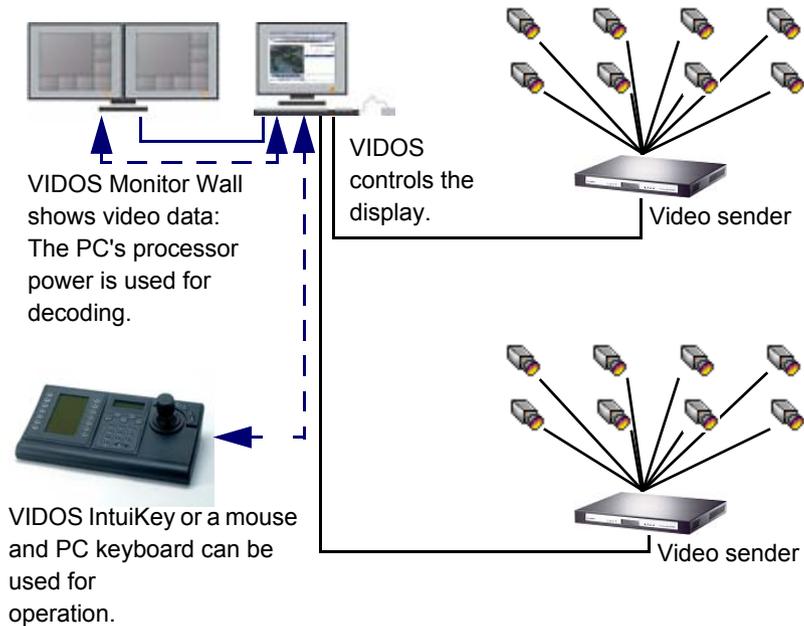
Note

Provide users with a manual tailored to their VIDOS workstation.

VIDOS Monitor Wall

VIDOS Monitor Wall is an easy to operate add-on program for the VIDOS video management system. VIDOS Monitor Wall is used to display video data on digital monitors, which are then treated as hardware monitors by the VIDOS system. VIDOS can be used to change the number and arrangement of the monitor windows displayed using VIDOS Monitor Wall.

The monitor windows in VIDOS Monitor Wall provide the same options as software or hardware windows in VIDOS. From a PC on which VIDOS is installed, the user can establish connections, control cameras or, with the appropriate configuration, start instant replay. A mouse and PC keyboard or a VIDOS IntuiKey control panel can be used to do this.



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Installation and Setup

This section is aimed at the administrator of a VIDOS system. It describes how to set up VIDOS Monitor Wall.

Once started, VIDOS finds the program during a network scan like any other hardware receiver and it can then be integrated into the system.

The design of the monitor layout and the camera connections are controlled by VIDOS.

You can give users the opportunity to operate VIDOS Monitor Wall, e.g. establish connections to the monitor windows, by giving them access to a VIDOS workstation with a mouse and PC keyboard or VIDOS IntuiKey. You can use rights management to assign individual users different options for operation. Details can be found in the separate documentation for VIDOS and VIDOS INTUIKEY.

Installation

The VIDOS Monitor Wall is typically installed on a PC on which none of the other programs from the VIDOS Pro Suite are installed. The Configuration Manager program is also automatically installed along with VIDOS Monitor Wall. The program CD comes complete with installation instructions (QUICK INSTALLATION GUIDE).

After installation, you will find the following icon on your desktop:



1. Click on this icon to start VIDOS Monitor Wall.

Note

You can also open the program from the **VIDOS** folder in the Windows Start menu.

Purchasing and entering a license

In order to be able to use VIDOS Monitor Wall, you must purchase the corresponding license. This license is linked to the PC on which you install VIDOS Monitor Wall.

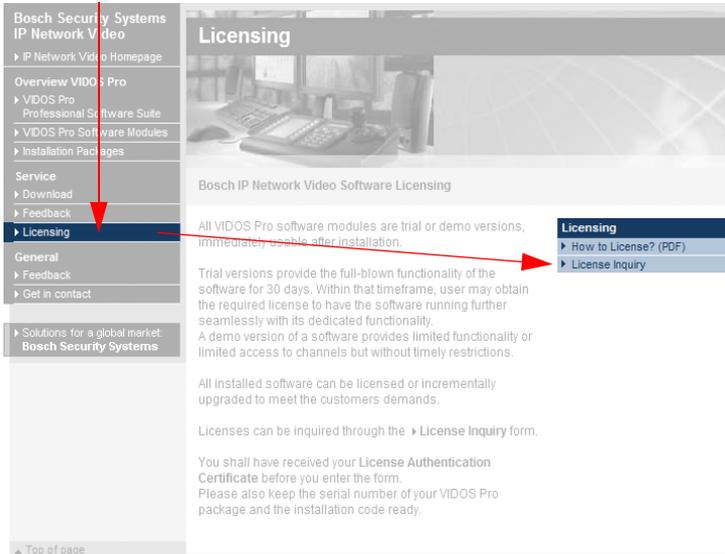
Note

When you purchase your licenses, you will receive a separate **Authentication Code** for each program and workstation, which you will need to generate the appropriate Activation Keys.

Generating the Activation Keys

After installing VIDOS Monitor Wall, you will find the option **VIDOS > Monitor Wall License Management** in your PC's Start menu.

1. Click on **VIDOS > Monitor Wall License Management** to open the **License Viewer**.
Here, you will find the **Installation Codes**.
2. Note the second **Installation Code (Code 2)**.
3. Connect to the Internet from any PC and open the page www.vidos.net in a Web browser.
4. Select **Licensing > License Inquiry**:



The screenshot shows the Bosch IP Network Video Software Licensing page. The left sidebar contains a navigation menu with the following items: Bosch Security Systems, IP Network Video, Overview VIDOS Pro, Service, General, and Solutions for a global market. The 'Licensing' item is highlighted in blue. The main content area is titled 'Licensing' and contains the following text:

Bosch IP Network Video Software Licensing

All VIDOS Pro software modules are trial or demo versions, immediately usable after installation.

Trial versions provide the full-blown functionality of the software for 30 days. Within that timeframe, user may obtain the required license to have the software running further seamlessly with its dedicated functionality. A demo version of a software provides limited functionality or limited access to channels but without timely restrictions.

All installed software can be licensed or incrementally upgraded to meet the customers demands.

Licenses can be inquired through the [License Inquiry form](#).

You shall have received your License Authentication Certificate before you enter the form. Please also keep the serial number of your VIDOS Pro package and the installation code ready.

The 'Licensing' sub-menu is also visible, containing 'How to License? (PDF)' and 'License Inquiry'.

5. In **Step 1** enter the **Authentication Code** - Copy&Paste is supported.
6. Click on **Validate license**.
Step 2 is displayed. Here, you will see the code entered and the license (product, license value) for which the code has been generated.
7. Enter the serial number, which you can find on the rear of the CD/DVD box or the packaging.
8. Enter the **Installation Code**.
9. Specify your e-mail address. A confirmation mail containing the Activation Key will be sent to this address.
If necessary, specify an additional e-mail address. In the bottom field, you can enter notes that will make it easier to allocate the Activation Keys to the relevant workstations later.
10. Click on **Request license code**.
In **Step 3**, the two **Activation Keys** are displayed. These Activation Keys are also sent to you by e-mail.
11. Click on **Print** to print all the information displayed.

 **Note**

When you update existing licenses, you will only receive one Activation Key.

Entering the Activation Keys

1. Open the **License Viewer** on the PC for which you want to enter the Activation Key.
2. Click on the **Activation Key** button and enter the first Activation Key – Copy&Paste is supported.
3. Click on **OK** to save the Activation Key.
4. Repeat this process to save the second Activation Key.

After successful activation, you will find the corresponding entry in the **License Viewer**. You can now use VIDOS Monitor Wall on this PC.

 **Note**

It is still possible to access the License Viewer after the demo version has expired.

For detailed information about licensing, refer to the QUICK INSTALLATION GUIDE supplied with the VIDOS Pro Suite product CD.

Configuring VIDOS Monitor Wall

Integrating VIDOS Monitor Wall into the VIDOS system

To integrate VIDOS Monitor Wall into a VIDOS system, start the program. VIDOS detects the program and displays it like any other device, e.g. a hardware receiver, in the network scan.

1. Start VIDOS.
2. Start VIDOS Monitor Wall.
3. In VIDOS click on **System > Network Scan...**
or
click on the icon in the **Management** toolbar:

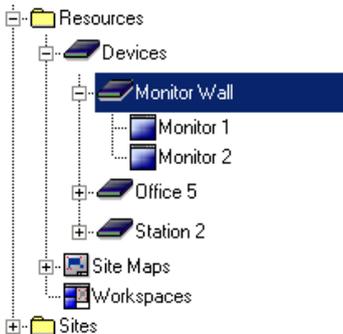


The network is browsed for devices that have an IP address; the PC on which VIDOS Monitor Wall is installed is thus found. A device of the type **Vidos Monitor** is displayed in the **Network Scan** window.

4. Select the device **Vidos Monitor**.
5. Click on **File > Add to system**
or
click on the relevant icon in the toolbar:



6. Close the **Network Scan** window.
VIDOS Monitor Wall is now displayed under **Devices** in the system tree. For each VIDOS Monitor Wall you will find two hardware monitor icons for the device below the entry:



Note

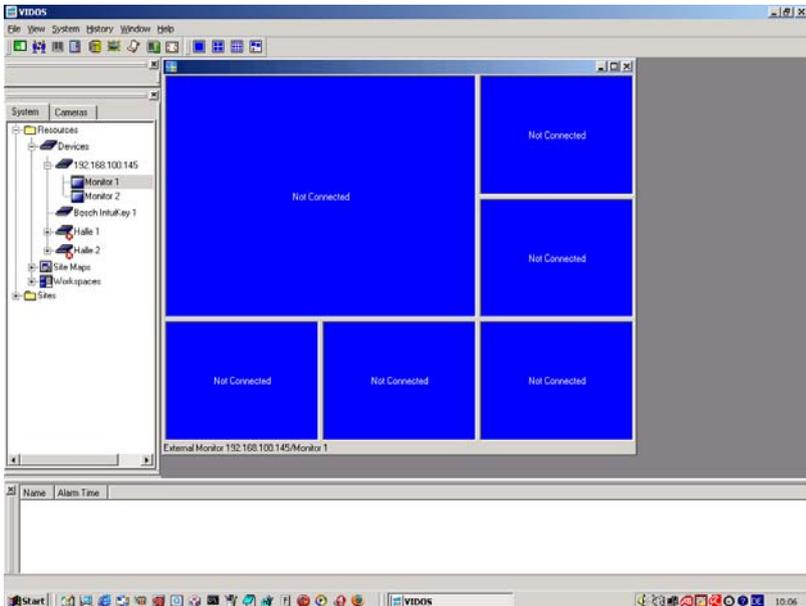
You can use VIDOS to control more than one VIDOS Monitor Wall.

7. Right click on the icon for the desired VIDOS Monitor Wall and select **Properties**.
You will see the **General** tab in the **Properties** dialog box.
8. Give the VIDOS Monitor Wall a descriptive name and close the dialog box.
9. Repeat steps 2 to 8 for each installed VIDOS Monitor Wall.

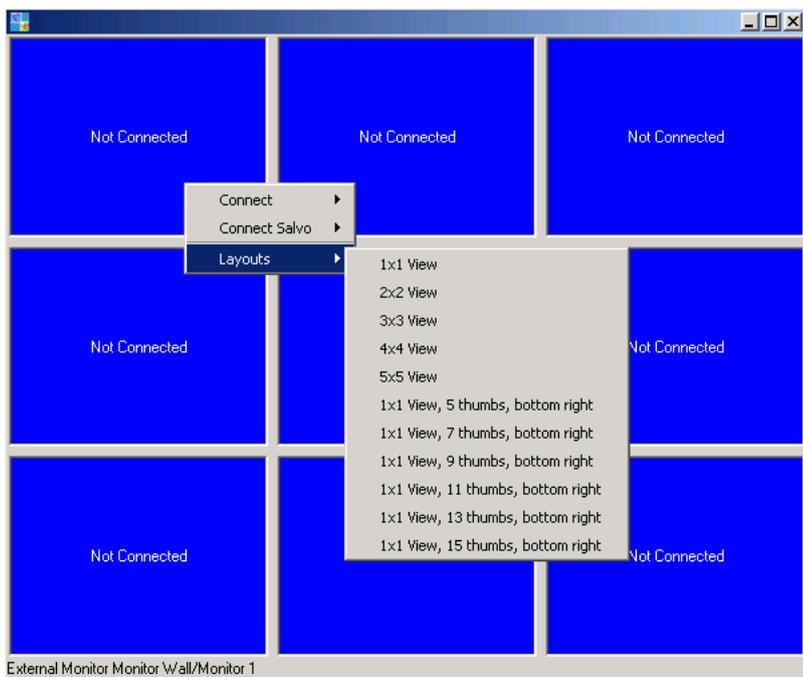
Every VIDOS Monitor Wall installed on a network PC is now integrated into the VIDOS system.

Setting up the monitor window layout

1. In the VIDOS system tree, double click on the icon for the desired VIDOS Monitor Wall.
You will see two sub-entries, each with a hardware monitor icon.
2. Hold down the mouse button and drag **Monitor 1** to the working area (Drag&Drop).
A new window is displayed in the working area. Several monitor windows are shown within this window:



3. Right-click in the window to open the popup menu.
4. In the popup menu, select **Layouts**. Select the desired layout:



If you are using VIDOS Monitor Wall on a double monitor, the layout is identical on both halves of the monitor.

Establishing connections to the monitor windows

Note

If you are using VIDOS Monitor Wall on a double monitor, you should also drag **Monitor 2** into the working area.

1. Right click in one of the monitor windows.
2. Select **Connect ►** or **Connect Salvo ►**.

Note

If sites have already been set up for VIDOS, the option **Sites ►** appears instead of **Connect ►**.

3. Select the camera or salvo for the connection to this monitor window.
4. Repeat steps 1 to 3 for each monitor window.

Alternatively:

- Hold down the mouse button and drag a camera or encoder directly from the system tree to one of the monitor windows (Drag&Drop).

As soon as the connection is established, video display begins on the VIDOS Monitor Wall digital monitor in the corresponding window. The video data is displayed as configured in VIDOS.

As with hardware monitor windows, in VIDOS a snapshot of the connected camera's site is displayed in each monitor window.

Note

Some devices or cameras do not support the snapshot function. In this case, you will only see a gray monitor window in VIDOS. This does not interfere with video display on the VIDOS Monitor Wall digital monitor.

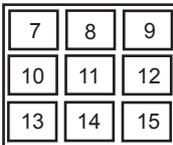
Monitor numbering for use with VIDOS IntuiKey

In order to be able to use a VIDOS IntuiKey control panel to connect cameras to individual monitor windows in VIDOS Monitor Wall, you must assign the monitor windows unique numbers.

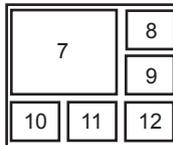
1. In the VIDOS system tree, double click on the icon for the desired VIDOS Monitor Wall.
You will see two sub-entries, each with a hardware monitor icon.
2. Right click on the hardware monitor icon for Monitor 1 and select **Properties**.
You will see the **General** tab in the **Properties** dialog box.
3. Give the monitor a descriptive name and a unique number.

The number applies to the first window, which is displayed in the top left of the monitor. The other windows are automatically numbered from left to right a row at a time.

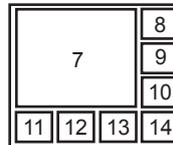
Here is an example of the window numbering for different layouts if you assign the monitor the number 7:



3 x 3 view



1 x 1 view,
5 thumbs



1 x 1 view,
7 thumbs

4. If you are using a double monitor, repeat steps 2 and 3 for the second hardware monitor icon.

Note

Make sure that you do not assign any numbers twice. As the maximum number of windows is 16 (1 x 1 view, 15 thumbs), it is recommended that you assign the monitor numbers in groups of 16. This rules out duplicate number assignments if you subsequently change the layout.

Additional settings in VIDOS

You can enable the user to operate VIDOS Monitor Wall, e.g. pan cameras, establish connections or play back recordings. To do this, provide the user with a VIDOS workstation with a mouse and PC keyboard or a VIDOS IntuiKey digital control panel. The user will have access to all the operating options that VIDOS provides for other software or hardware monitor windows.

You should therefore make sure that you correctly assign user rights to rule out unauthorized access.



Warning!

Operation and connections (including salvo connections) are carried out using VIDOS. Do not shut down VIDOS if you want to change the connections or operate VIDOS Monitor Wall.

Detailed information about setting up VIDOS workstations can be found in the separate documentation for VIDOS and VIDOS INTUIKEY.

Settings using the Configuration Manager

In the Configuration Manager, the running VIDOS Monitor Wall is also detected in the same way as other hardware; different information is displayed and additional configuration options are provided. The configuration pages that you can find in the Configuration Manager for VIDOS Monitor Wall are listed below and the setting options are explained.



Note

Changes only take effect after you have clicked on **Set** on the relevant configuration page.

For further information, refer to the separate documentation CONFIGURATION MANAGER.

The **Unit access** tab

- In the **Unit identification** section, you can allocate the VIDOS Monitor Wall a **Unit name** and **Unit ID**, to make assignment easier in larger installations.
- In the **Password** section, you can protect the VIDOS Monitor Wall against unauthorized access.

VIDOS Monitor Wall uses two password levels. The **service** level represents the highest level of authorization. After entering the corresponding password, it enables you to use all the functions of VIDOS Monitor Wall and to change

all the configuration settings. The level **user** allows you to establish and terminate connections but does not allow access to the configuration.

- The **Unit access** section controls the access to VIDOS Monitor Wall from VIDOS. Here, you can set which protocol and which HTTP port VIDOS will use to communicate with VIDOS Monitor Wall.
If VIDOS Monitor Wall is password protected, you can save the password for access by VIDOS here.

The **General** tab

- Under **Date/Time**, this tab shows the time setting for the PC on which VIDOS Monitor Wall is running.
You cannot make any changes to the setting here. If you want to use a different time setting, you must make the changes directly on the relevant PC.

The **Decoder** tab

- Under **Monitor**, you can assign the monitor names. The names are displayed in the VIDOS resource tree next to the hardware monitor icons.

The **Alarm** tab

- These settings are very important if senders in the system are protected with a user password. Under **Alarm connections receiver** you can make 10 entries with an IP address and associated user password, so that the connection can be established in case of an alarm.
However, under number 10 you can also leave the IP address setting as 0.0.0.0 and assign a user password. VIDOS Monitor Wall then has access to all devices with this user password. This allows you to integrate more than 10 password-protected senders into the system.

Exiting VIDOS Monitor Wall

Press the **Esc** key to exit VIDOS Monitor Wall.

This terminates the camera connections, which will need to be re-established using VIDOS when VIDOS Monitor Wall is restarted.

VIDOS Monitor Wall and Server

The program can also be integrated into a VIDOS client/server system. You can integrate VIDOS Monitor Wall locally into an individual VIDOS client. The procedure for this is as described in the section INTEGRATING VIDOS MONITOR WALL INTO THE VIDOS SYSTEM on page 10.

However, you can also integrate VIDOS Monitor Wall centrally, so that all clients in the VIDOS system can access it. In this case, you should use the Configuration Manager. Start any Configuration Manager in the system, connect it to the desired server and assign VIDOS Monitor Wall to the system, as described in the DEVICE ASSIGNMENT section of the separate documentation VIDOS SERVER.

3

Contacts and Service (Address)

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Internet: www.bosch-sicherheitssysteme.de

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