

User manual

WebView

The digital video network system

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Dimbacher Straße 6
D-74182 Obersulm
Tel.: +49/(0)7134/96196-0
Fax: +49/(0)7134/96196-99
eMail: sales@ids-imaging.de

Foreword

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Contacting us

Visit our web site where you will find all the latest drivers and information about our software and hardware products as well as our partners and distributors.

Internet: <http://www.ids-imaging.de>
 <http://www.iguard.de>

Address:	IDS Imaging Development Systems GmbH Dimbacher Strasse 6 D-74182 Obersulm
Tel.:	07134/96196-0
Fax:	07134/96196-99
Email:	Sales sales@ids-imaging.de Support support@ids-imaging.de

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Introduction

Thank you for your decision to use the WebView video networking system.

The system is capable of connecting several iGuard® servers to a video server for providing live video to client systems using a standard web browser. One iGuard® server itself can handle up to 32 cameras limited only by the video capture hardware. The video is compressed on picture server side and transferred to the video server using an Ethernet network connection. The video server provides the video to client systems through the browser connection.

1 Prerequisites

1.1 Operating system support

iGuard® server system

The picture service can be run using:

- Windows NT 4.0® (min. SP6)
- Windows 2000®
- Windows XP®

Video server system

The video server and the CGI programs can be run using:

- Windows 2000®
- Windows XP®

Browser system

- Internet Explorer 6.x or higher
 - Supported JAVA Virtual machines
 - Sun Java 2 RE V 1.4.1_2 or higher
 - Microsoft VM
- Mozilla 1.2.1 or higher, Opera 7.x or higher
 - Sun Java 2 RE V 1.4.1_2 or higher

We recommend using the latest service packs for the specified operating systems.

2 WebView

This chapter exclusively describes the installation, start-up and function of WebView.

2.1 System components

The WebView system consists of several modules which can either be hosted in one PC system or distributed over several PC systems. The module intercommunication is established using IP connections. Some configuration is needed prior running the WebView system in order to correctly setup the communication.

Figure 1 shows an overview of the WebView system. The block diagram in figure 2 shows the components of the WebView system.

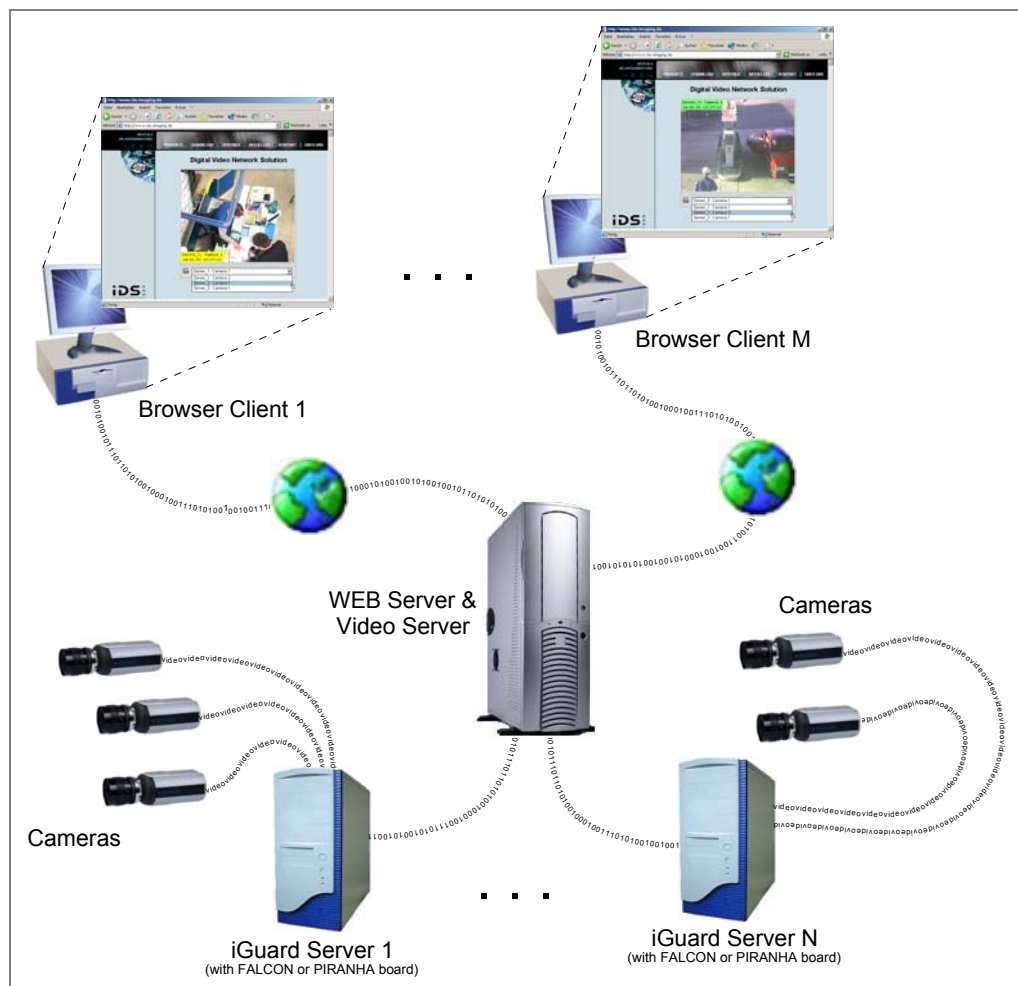


Figure 1: WebView overview

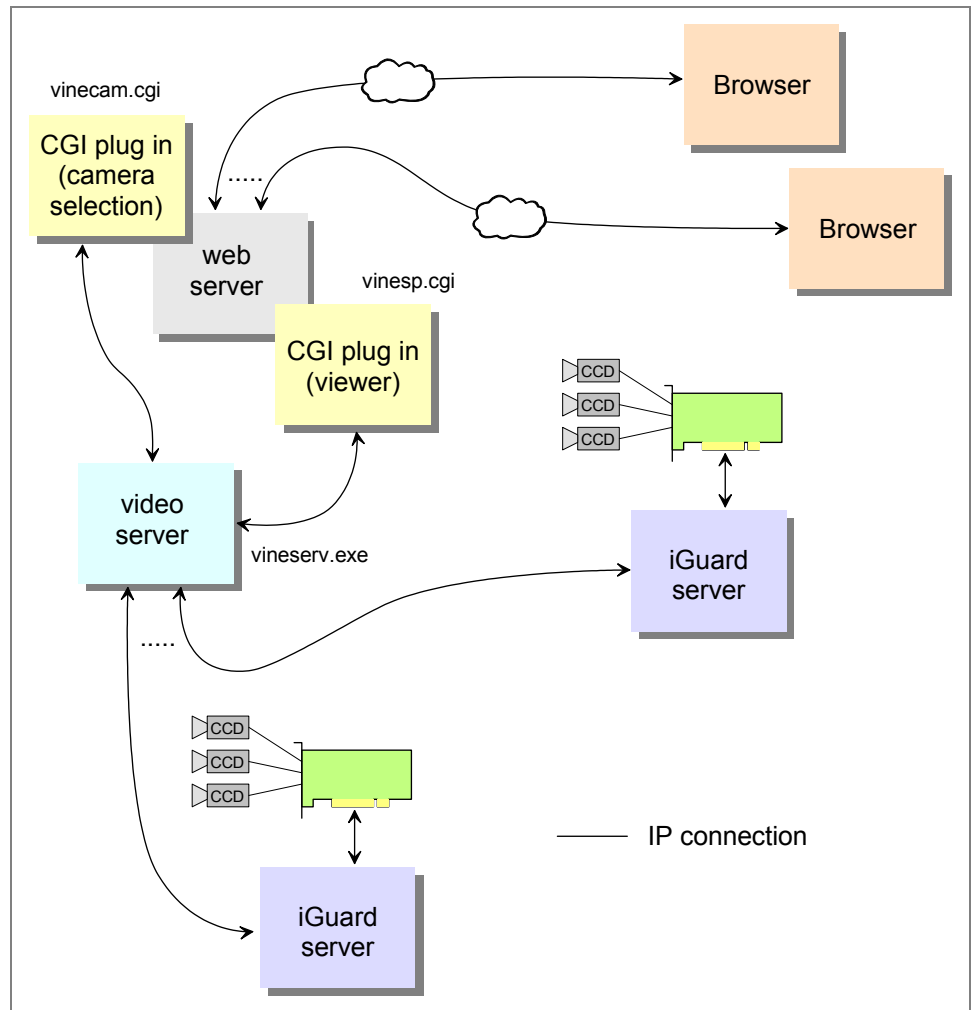


Figure 2: WebView components

2.2 Installation

There are five setup types:

- Video Server:
Server Components, required on the web server
- Client:
Java runtime environment, required for viewing and controlling in the web browser
- Full
- Custom

2.2.1 Video server

2.2.1.1 Setup Component: Video Server



In order to install the video server program, perform the following steps:

Run setup and select Setup Type “Component: Video Server”. Setup will ask you for an application folder (<TARGET_DIR>), a folder where to place the sample web page (e.g. a subfolder of wwwroot) and a folder for the CGI binaries (<CGI_DIR>). Here you can specify the CGI directory of your web server.

2.2.1.2 Configuration

- Video server:

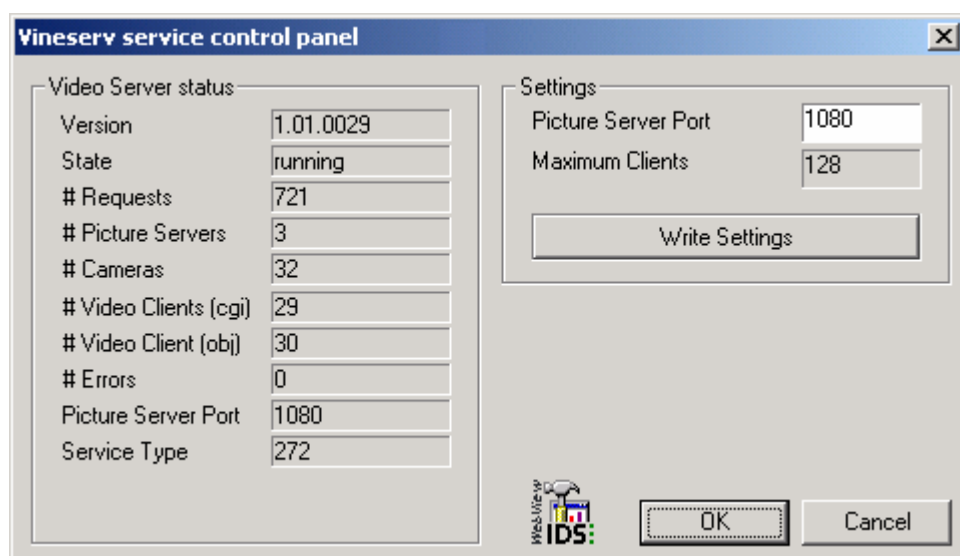


Figure 3: Video server service control panel

If you change the Picture Server Port, you have to restart the Video Server service.

2.2.2 Picture server

2.2.2.1 Setup: Picture Server iGuard®



In order to install a picture server, perform the following steps:

1. Run an iGuard® setup V 2.45 SP1 or higher.
2. Start “regedit” and select the following key
HKEY_LOCAL_MACHINE ► SOFTWARE ► IDS ► iGuard ► Settings
3. Add a new DWORD entry called *PictureServer* and assign the value 1.

2.2.2.2 Configuration

After you have entered the configuration mode of iGuard®, you have to select the network folder. (See also iGuard® manual 2.5 *Configuration mode*)

In the edit control *VideoServer* you can enter the ip address or the network name of your Video Server computer. After that you must enter the port number at which the Video Server is listening.

If you exit the configuration mode, iGuard® tries to connect to the Video Server. A successful connection or disconnection is indicated by a logbook entry.

ATTENTION!

It is important that the *Port* number matches the *Port* definition made in the Video Server service control panel.

2.2.3 Browser system



To be able to use the WebView Java applets, the browser system must be able to run Java Applets. We recommend to use the following Version:

Sun Java 2 V 1.4.2_4 Runtime Environment

Please refer to the Sun web page (www.sun.com) for the latest version.

2.2.3.1 Setup Component: Client

You will be asked to install the following components:

- Sun Java 2 V 1.4.2_4 Runtime Environment

This component is not available in a web setup.

2.3 Running a WebView system

2.3.1 Start up sequence

To run a WEBVIEW system, perform the following steps in the given order:

1. Perform configuration for all components
2. Start the video server service (Start ► Settings ► ControlPanel ► Administrate ► Services ► Vineserv. Right mouse button ► Start)
3. Start Picture Servers. Make sure that the picture servers are properly configured.

2.3.2 Starting a video window

To integrate a video window with live video display, a few lines of html code, concerning applets have to be inserted in the code of your web site.

There are applets for

- Viewing
- Camera selection
- Configuration

2.3.2.1 Viewing Applet

JAVA Applet

```
<applet code="vineview" width="352" height="288">
  <param name="vinesp_cgi" value="cgi-bin/vinesp.cgi">
  <param name="camera" value="Serv_001: Cam 01">
  <param name="alias" value="alias1">
  <param name="kbps" value="0">
</applet>
```

Parameter	Description
width, height	Size of the video window. The video is scaled up or down to these values.
Vinesp_cgi	Location of vinesp.cgi on the web server.
camera	Name of the desired camera
alias	Used for assigning a viewing applet to a camera selection applet
kbps	Maximum bandwidth / kbps. A value of 0 means no limitation.

The following ".class file" the must be in the same directory as the html page: vineview.class and vinecon.class

Please note:

The name parameter must match the following syntax:

- System name | colon | space | iGuard® camera name
- Special characters are not allowed.
- System name consists of the first 16 characters of the iGuard® system name.

For more information about CGI configuration please refer to the documentation of your web server.

2.3.2.2 Applet for camera selection

JAVA Applet

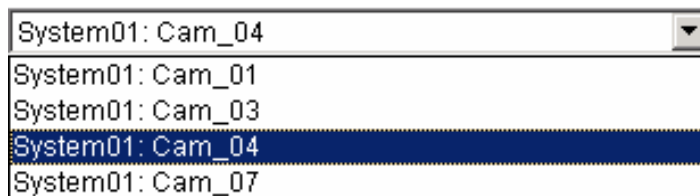


Figure 4: Camera selection applet

```
<applet code="vinecam" width="352" height="22">  
  <param name="vinecam_cgi" value="cgi-  
bin/vinecam.cgi">  
    <param name="alias" value="alias1">  
    <param name="refresh" value="30">  
</applet>
```

Parameter	Description
width, height	Size of the camera selection window
vinecam_cgi	Location of vinecam.cgi on the web server
refresh	Refresh rate of the camera list in seconds. You can disable the automatic refresh by removing this line.
alias	Must be the same as in the viewing applet code

The following ".class file" must be in the same directory as the html page: vinecam.class

Please refer to the sample web pages for more information.