



# **United VMS 8.0 Client Workstation Specifications**

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#### Document History

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# 1. Introduction

Any United VMS System is comprised of **server components** and **client applications** that interact with the server side.

The client applications are the Control Center, Admin Center and Quick Control Center (QCC). This document describes the hardware requirements for workstations capable of running the client applications, and the process of their deployment.

## 1.1 Control Center

The primary role of the Control Center client application is to provide the user interface for system operators, enabling the monitoring of live and archived video and audio, as well as receiving and managing alarms.



**NOTE:** Any model of United VMS Systems may include multiple Control Center applications, which can connect either locally from the Local Area Network or remotely via a Wide Area Network.

## 1.2 Admin Center

The primary role of the Admin Center client application is to provide the user interface for the System Administrator, enabling the definition and configuration of the system components.

## 1.3 Quick Control Center

The Quick Control Center is self-contained version of Control Center application that does not require installation. This application may also serve as a stand-alone player.

## 2. Client Workstation Hardware Requirements

Name	Minimum	Recommended	High Performance
<b>Processor</b>	Intel Quad Core 2.4 GHz	Intel E3-1245 v6	Intel E5-1650 v4
<b>RAM</b>	4GB	8GB	16GB
<b>Hard Drive</b>	5400 RPM 60 GB for OS+SW	SSD / Hybrid 80 GB for OS+SW	SSD / Hybrid 80 GB for OS+SW
<b>Network Interface</b>	1Gbps	1Gbps	1Gbps
<b>Video Card</b>	Intel HD 4000 Series	<u>2 Monitors</u> Intel HD P630 <u>4 Monitors</u> Intel HD P630 + NVIDIA NVS 315	<u>2 Monitors</u> NVIDIA K620 or NVS 315 <u>4 Monitors</u> 2 X NVIDIA K620 or 2 X NVS 315
<b>Operating System</b>	Any supported OS ( <a href="#">Section 4</a> )	Windows 10 64-bit	Windows 10 64-bit

## 3. Control Center Performance Guidelines

### 3.1 Video Throughput Performance Requirements

The example below provides only estimated performance. The numbers below are to be compared to the hardware specifications list above [2 Client Workstation Hardware Requirements](#)

Resolution/FPS	Minimum	Recommended	High Performance
<b>CIF @ 30 FPS</b>	20 streams	70 streams	80 streams
<b>4CIF @ 30 FPS</b>	10 streams	32 streams	40 streams
<b>1080P @ 15 FPS</b>	8 streams	24 streams	32 streams
<b>1080P @ 30 FPS</b>	4 streams	12 streams	16 streams
<b>4K @ 15 FPS</b>	1 streams	6 streams	8 streams
<b>4K @ 30 FPS</b>	0 streams	3 streams	4 streams

- Calculations are based on FLIR Quasar cameras streaming H.264 with default FLIR values.

## 4. Supported Operating Systems

The following operating systems are supported with client applications:

Operating System	Client
<b>Microsoft Windows®</b>	
Windows 7 SP1 - 64 bit	upgrade only
Windows 8 - 64 bit	upgrade only
Windows 8.1 - 64 bit	X
Windows 10 – 64 bit	X



**NOTE:** FLIR cannot verify or guarantee proper functionality when using non-English Windows OS.

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# 5. Client Application Deployment

## 5.1 Client Portal

Deploying the client application software on an additional workstation is a simple task to perform, thanks to the Client Portal. Users can open a browser, type the Client Portal's URL (*http://[server-name]/clientportal*) and use the links on the portal to download and install the Control Center and Admin Center client applications, or download a copy of Quick Control Center (QCC).

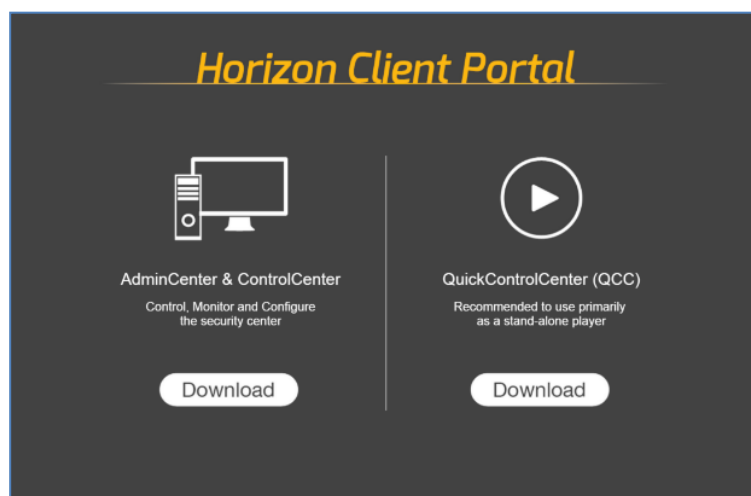


Figure 1 - Example - Horizon Client Portal Page

Once you conclude downloading the installation package, simply start the installation program, and proceed as guided by the installation wizard.



**NOTE:** Close all unnecessary applications before running the installation package.

## 5.2 Silent Installer

The Silent Mode installer allows the United VMS Client software to be installed locally or remotely without operator intervention. To install the software, **copy the installation executable file to a client-accessible location on the network or on the remote client machine.**

**Note:** In order to ensure the success of the silent installer, please be sure that the target client has **System Administrator rights** and that **UAC settings** are set to **low/off**.

### To copy a non-automated, command-line installation

1. Click **Start ► Run** (or open CMD).
2. Enter the command in the following syntax: `[System Installation File Path] /silent`.  
For example:  
`"\\mysoftware-server\VideoManagementSWfolder\Latitude_ClientsOnly.exe"/silent`
3. Press **ENTER**.

### Automated script or IT tool installation

1. On the remote client machine, run the script with the shell command in proper syntax ([<System Installation File Path><System> install file] /silent).

## 6. Easy Future Upgrades to Client Workstations

Future upgrades for workstations running the United VMS client applications will be easy and will not require the system administrator to perform the installation process sequentially on each workstation. After upgrading to a newer version, the Control Center or Admin Center client application user will be notified that a newer version is available. The user will be asked whether he wants to upgrade. When accepted, the new version will be downloaded over the network and installed automatically without requiring any further input.



Figure 2 - Automatic Upgrade Message

## 7. Installation Process and Requirements

The following requirements must be fulfilled prior to installing the client applications.

### 7.1 Pre-requisites for User Account Control Feature

User Account Control (UAC) is a technology and security infrastructure introduced with Windows 7 that also exists in Windows 8. Make sure to run the installation as an administrator. Right-click **Run as Administrator**.

### 7.2 Required Microsoft Updates



**NOTE:** To avoid improper or failed installation, assure that all Windows updates are run before, and not during, the installation process.

United VMS 8.0 was certified with the latest Microsoft Updates available up until April 1<sup>st</sup>, 2017.



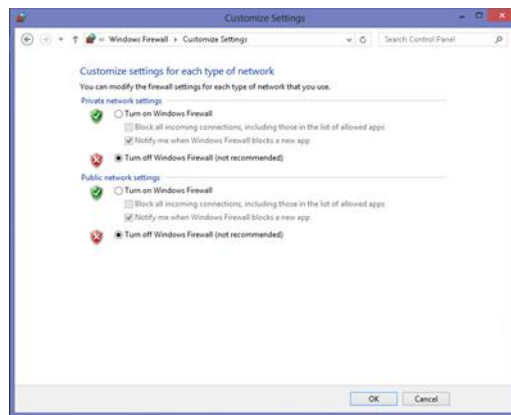
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## 7.3 Disable the Windows Firewall

On every United VMS client workstation, it is important to disable the Windows Firewall in order to make sure it doesn't block communication. The procedure varies depending on the operating system. If you do not have access to turn off the firewall, contact your system administrator.

### To turn the firewall off for Windows 8

1. **Click** the Desktop icon.
2. Move the mouse cursor to the bottom left-hand corner and right-click the Start icon.
3. Select *Control Panel* from the popup menu. The Control Panel appears.
4. In the Control Panel, click **System and Security**.
5. Click **Windows Firewall**. The **Windows Firewall** screen is displayed.
6. Note which network locations display the text "Connected" to the left of the network connection area: *Domain networks*, *Home or work (private) networks*, or *Public networks*.
7. On the left blue panel, click *Turn on Windows Firewall on* or *Turn off Windows Firewall*. The **Customize Settings** screen opens.



8. Select *Turn off Windows Firewall*.
9. Click **OK**.
10. Close the Control Panel.

## 7.4 Disable the Screen Saver and Power Saving Options

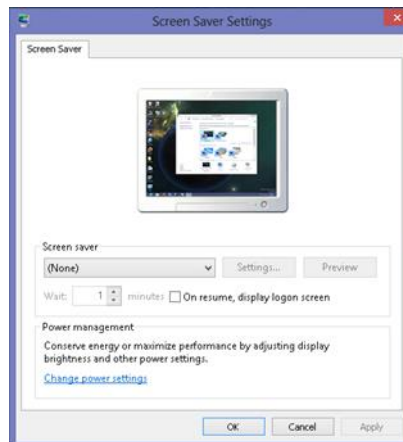
In order to avoid interruptions while using the application and/or monitoring video, it is necessary to disable the screen saver and prevent the screen from automatically turning off before using the Control Center on a client workstation.

### To disable the Screen Saver for Windows 8

1. On the Desktop, right-click and select **Personalize** from the menu that is displayed.
2. In the *Personalize* screen, click **Screen Saver**.



3. The **Screen Saver** dialog appears.



4. From the *Screen Saver* drop-down menu, select *None*.

#### To create a Workstation power plan for Windows 8

1. On the Desktop, right-click and select **Personalize** from the menu that is displayed.
2. In the **Personalize** screen, click **Screen Saver**. The **Screen Saver** dialog appears.
3. In the **Screen Saver** dialog, click **Change Power Settings**. The **Control Panel Power Options** screen appears.
4. Click **Create a Power Plan**. In the **Power Plan** screen, select *High Performance* and enter “FLIR Horizon” or similar in the *Plan Name* field.
5. Click **Next**.
6. From the *Turn off the Display* menu and the *Put the computer to sleep* menu, select *Never*.
7. Click **Create**. The new power plan is displayed.



**NOTE:** By default, the *Hibernate* setting is disabled for timed sleep modes.

8. On the Control Panel, click **Close**.

## 7.5 Preventing Anti-Virus from Interfering with the United VMS Client Applications

This section is intended for users who plan to install anti-virus software on a computer running the United VMS Client Applications. **This section assumes that the Client software is installed in the default location.**

### 7.5.1 Anti-virus for Installation

When installing United VMS client software, it is possible that anti-virus software may interfere with one of the several components during the installation process. Prior to beginning the installation, or if the installer fails at any point, it is recommended to turn off anti-virus software until the client software is completely installed.

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## 7.5.2 Configuring Anti-Virus Software to Work with a United VMS system

1. Disable the firewall included in the anti-virus software.
2. Configure rules for *Real-time scans* and *Scheduled scans*.
3. Exclude the following locations for the client and server:
  - The United VMS system folders  
(e.g. C:\Program Files\FLIR\ and/or C:\Program Files (x86)\FLIR\)
  - The Windows Paging file (C:\pagefile.sys)

### Important

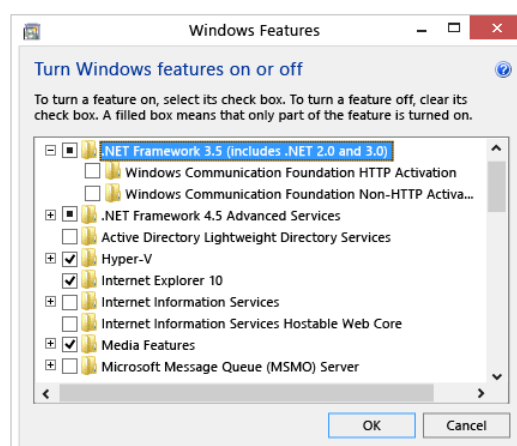
- A common mistake is to configure exclusions for Auto-Protect, but not exclude scheduled and manual scans. All types of scans that run on the client must be excluded, or there is a risk of disruption of the client application's monitoring of the system.
- Another common mistake is to omit the paths to the folders that you need to exclude. For example: you may exclude "C:\Program Files\FLIR\" when the actual installation path is "E:\Program Files\FLIR\". Because the United VMS folder locations can be configured differently, the paths here are given with the default installation path.

## 7.6 Installing Client Applications over Windows 8/10

When installing United VMS client applications over Windows 8 OS, you must manually install .NET 3.5.

### To enable .NET 3.5 for Windows 8/10 when an Internet connection is available

1. Click the Desktop Icon.
2. Move the mouse cursor to the bottom left-hand corner and right-click the "Start" icon.
3. Select *Control Panel* from the popup menu. The Control Panel appears.
4. Choose *Programs and Features*.
5. Select Turn Windows features on or Turn Windows features off.



6. Select the *.NET Framework 3.5 (includes .NET 2.0 and 3.0)* checkbox.
7. Click **OK**.

In case an Internet connection is not available, please contact FLIR support.

## 8. Additional Information and Resources

For more information about the VMS system, visit <http://www.flir.com/security>, or contact a FLIR Sales Engineer in your region.

## 9. Disclaimer

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