



# VidyoRoom™ Software Edition (SE) Deployment Guide

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# TABLE OF CONTENTS

<b>About This Guide</b> .....	<b>3</b>
Getting More Information.....	3
Contacting Customer Support .....	3
<b>1. Preparing for Your Installation</b> .....	<b>4</b>
Selecting a Windows-based Computer for VidyoRoom SE Use.....	4
Understanding VidyoRoom SE Performance Profiles .....	4
Understanding a Hardware Configuration Example.....	6
Selecting Peripherals for VidyoRoom SE Use .....	6
Understanding VidyoRoom SE Licensing.....	7
Preparing Your Windows-based Computer .....	7
Managing VidyoRoom SE Hardware Swaps and Mass Deployments .....	8
Managing Hardware Swaps.....	8
Understanding Deployment, Installation, and Upgrading Best Practices .....	8
<b>2. Installing VidyoRoom™ SE on Your Windows-based Computer</b> .....	<b>9</b>
Installing VidyoRoom SE with a Performance Profile .....	9
Running the VidyoRoom SE Installer Without a Performance Profile .....	11
Configuring Windows to Always Run in High Performance Mode.....	13
<b>3. Configuring Your Windows-based Computer to Run VidyoRoom SE as an Appliance</b> .....	<b>15</b>
<b>4. Launching and Logging In to VidyoRoom SE</b> .....	<b>17</b>
Launching VidyoRoom SE.....	17
Logging In to VidyoRoom SE .....	17
Closing the VidyoRoom SE Application.....	18
Re-Launching the VidyoRoom SE Application .....	18
Uninstalling VidyoRoom SE.....	18
Accessing the VidyoRoom SE Admin Portal .....	18
Understanding VidyoRoom SE Remote Control Options.....	19
Understanding VidyoRoom SE Keyboard Shortcuts.....	19
<b>5. Configuring a USB Port as a COM Port for VISCA Controls</b> .....	<b>20</b>

# About This Guide

The *VidyoRoom (SE) Deployment Guide* provides administrators with the information needed to create Vidyo room systems using your own compatible Windows-based computers and peripherals.

**Note:** VidyoRoom SE is compatible with VidyoPortal version 3.2 or later.

## Getting More Information

Additional VidyoRoom documentation includes the following documents:

- *VidyoRoom Administrator Guide*
- *VidyoRoom Release Notes*
- *VidyoRoom Getting Started Guide*
- *VidyoRoom Datasheet*
- *VidyoRemote™ for Android Quick User Guide*
- *VidyoRemote for Android Release Notes*
- *VidyoRemote for iOS Quick User Guide*
- *VidyoRemote for iOS Release Notes*
- *VidyoConferencing Administrator Guide*

Features and specifications for each VidyoRoom model are available at [www.vidyo.com](http://www.vidyo.com). You can find the other documents at <https://selfservice.vidyo.com/> or at <http://support.vidyo.com>.

## Contacting Customer Support

If you are a Vidyo reseller or end user with PLUS support, please feel free to contact the Vidyo Customer Support team via email or phone:

Email: [support@vidyo.com](mailto:support@vidyo.com)

Phone: 1-866-99-Vidyo (Int'l: +201-289-8597) - Option 3

If you are a Vidyo end user without PLUS support, please contact your Vidyo reseller for further assistance.

# 1. Preparing for Your Installation

VidyoRoom Software Edition (SE) is installed as an application on your compatible Windows-based computers and peripherals. The upgrade process is the same as the installation.

For more information, see “Installing VidyoRoom SE on Your Windows-based Computer” on page 9.

**Note:** After installing VidyoRoom SE, you may configure it to run as an appliance, if desired. For more information, see “Configuring Your Windows-based Computer to Run VidyoRoom SE as an Appliance” on page 15.

## Selecting a Windows-based Computer for VidyoRoom SE Use

**Note:** Carefully select your Windows-based computer and peripherals based on your specific room design specifications.

Vidyo recommends selecting your Windows-based computer based on three specific performance aspects:

1. CPU model and speed, which affects encoding and decoding capabilities (regarding rate and resolution).
2. Memory configuration, which affects the content encode capabilities (regarding rate and resolution).
3. Graphics cards, which affects the number of active displays.

## Understanding VidyoRoom SE Performance Profiles

Video conferencing capabilities, such as encode and decode resolution and frame rate, depend on the processing power of the hardware platform. A Performance Profile is a data file that tells VidyoRoom SE what the maximum capabilities of the hardware are. VidyoRoom SE will allow the user to configure different encode/decode settings up to the maximum specified in the Performance Profile.

**Note:**

- Vidyo Support can provide you with a performance profile. The performance profile is an **.xml** file.
- Your performance profile must be installed as explained in “Running the VidyoRoom SE Installer” on page 9.
- The default performance profile is shown in the leftmost column of the following table.

The following table provides the minimum Windows-based computer requirements in order to run VidyoRoom SE based on three different performance profile settings and should be used as a reference when preparing for your installation and requesting a performance profile:

	Participants on up to 2 screens Up to 1080p60 encode Up to UHD decode Content sharing up to 1080p30	Participants on 1 screen Content on second Up to 720p30 or 1080p15 encode Up to 1080p60 decode Content sharing up to 720p30	Participants on 1 screen Content on second Up to 720p30 encode Up to 1080p60 decode Content sharing up to 720p5
Max Encode Performance	1080p60	1080p15 or 720p30	720p30
Max Decode Performance	2160p30 (UHD) or 1080p60	1080p30	1080p30
Max Content Sharing Performance	1080p30	720p30	720p5
Required Hardware Configuration	<b>CPU:</b> Core i7-4770 or Core i7-4790 or equivalent <b>RAM:</b> 8GB 1600 MHz DDR3 <b>HDD:</b> 64 GB or above <b>Graphics Chipset:</b> NVIDIA Quadro K600 <b># USB ports:</b> 2 USB3 + 4 USB2 <b>Ethernet:</b> 1x GigE <b>AudioChipset:</b> Realtek ALC269Q	<b>CPU:</b> Core i7-4770S or Core i7-4790S or equivalent <b>RAM:</b> 8GB 1600 MHz DDR3 <b>HDD:</b> 64 GB or above <b>Graphics Chipset:</b> Intel HD Graphics 4600 or equivalent <b># USB ports:</b> 2 USB3 + 4 USB2 <b>Ethernet:</b> 1x GigE <b>AudioChipset:</b> Realtek ALC3220	<b>CPU:</b> Core i5-4250U or equivalent <b>RAM:</b> 8GB 1600 MHz DDR3L CL9 <b>HDD:</b> 64 GB or above <b>Graphics Chipset:</b> Intel Iris Pro or equivalent <b># USB ports:</b> 2 USB3 + 2 USB2 <b>Ethernet:</b> 1x GigE <b>AudioChipset:</b> Intel HD
Suggested PC Models	Dell Precision T1700 SFF	Dell OptiPlex 9020 USFF Gigabyte BR1X Pro	Intel NUC Kit D54250WYK
Required Software Configuration	OS: Windows 7 64-bit	OS: Windows 7 64-bit	OS: Windows 7 64-bit
Supported Modes	Multi-application	Multi-application	Multi-application
Features and Capabilities (non-physical)	VidyoRoom HD-230 data sheet	See VidyoRoom HD-100 data sheet	See VidyoRoom HD-40 data sheet

	Participants on up to 2 screens Up to 1080p60 encode Up to UHD decode Content sharing up to 1080p30	Participants on 1 screen Content on second Up to 720p30 or 1080p15 encode Up to 1080p60 decode Content sharing up to 720p30	Participants on 1 screen Content on second Up to 720p30 encode Up to 1080p60 decode Content sharing up to 720p5
Features and Capabilities (physical)	See original equipment manufacturer's documentation for selected hardware	See original equipment manufacturer's documentation for selected hardware	See original equipment manufacturer's documentation for selected hardware

## Understanding a Hardware Configuration Example

Vidyo has tested the use of VidyoRoom SE on a Gigabyte BRIX Pro Ultra Compact PC kit with 8GB of 1600MHz RAM and a 64GB SSD. Vidyo recommends this as a minimum configuration of the Gigabyte BRIX Pro Ultra Compact PC kit.

The hardware configuration details for the Gigabyte BRIX Pro Ultra Compact PC kit are intended for exemplary purposes. For more information about the Gigabyte BRIX Pro Ultra Compact PC kit, refer to <http://www.gigabyte.com/products/product-page.aspx?pid=4888&dl=#ov>.

## Selecting Peripherals for VidyoRoom SE Use

**Note:** Carefully select your Windows-based computer and peripherals based on your specific room design specifications.

For more information, refer to the Peripherals page on the Vidyo website at <http://www.vidyo.com/services-support/technical-support/peripherals/>.

The following peripherals are compatible with VidyoRoom SE installed on Windows-based computers:

Peripheral	Model
Cameras	Logitech ConferenceCam CC3000e
	Logitech Pro Webcam C930e
	Sony EVI-HD7V
Audio Devices	Logitech ConferenceCam CC3000e
	Phoenix Quattro3 MT304
	Phoenix Duet PCS MT202

Peripheral	Model
Frame Grabbers	Inogeni HDMI/DVI to USB
	Epiphan VGA2USB
	Dual-Dextera (internal)
Remote Control	IR remote
	VidyoRemote for iOS
	VidyoRemote for Android

For more information about remote controls, see “Understanding VidyoRoom SE Remote Control Options” on page 19.

## Understanding VidyoRoom SE Licensing

An Executive license is required in order to register your VidyoRoom SE system on your VidyoPortal. For more information, refer to “Applying System License Keys to Your System” in the *Vidyo Conferencing Administrator Guide*.

## Preparing Your Windows-based Computer

After your VidyoRoom SE purchase, you should have received a VidyoRoom SE installation **.exe** file via email from Vidyo Support.

### Note:

- Vidyo Support can provide you with a performance profile. The performance profile is an **.xml** file which expands your VidyoRoom SE capabilities to better match increased hardware performance specifications in your system. For more information about performance profiles, see “Understanding VidyoRoom SE Performance Profiles” on page 4.
- Your performance profile must be installed as explained in “Installing VidyoRoom SE with a Performance Profile” on page 9.
- If you did not receive your installer or requested performance profile via email, please contact Vidyo Support.

### To prepare your computer:

1. Log in to the Windows-based computer on which you wish to install VidyoRoom SE.
2. Apply all Windows updates on the computer.
3. Update your graphics driver to the latest version provided from the graphics card manufacturer and not your computer manufacturer.
4. Copy the VidyoRoom SE installation **.exe** file you received via email from Vidyo Support to your desktop.

5. You may now proceed with your installation.

## Managing VidyoRoom SE Hardware Swaps and Mass Deployments

### Managing Hardware Swaps

Your VidyoRoom SE software is not tied to your specific Windows-based computer. This allows you to reinstall the software on a different Windows-based computer if necessary.

### Understanding Deployment, Installation, and Upgrading Best Practices

VidyoRoom SE is designed with the goal of providing a deterministic level of performance (with respect to encoding, decoding, and rendering) for a given system configuration.

System configuration includes both your room system hardware and software. Software elements that can impact performance include:

- Device Drivers
- Operating System Updates
- Virus Scan Software
- Any other software demanding system resources concurrently with the execution of VidyoRoom SE.

**Note:**

- Because the updating of these software components can impact the performance of VidyoRoom SE, it's recommended that any such updates are tested on one or more systems before the updates are deployed to the VidyoRoom SE installation base within your organization.
- VidyoRoom SE installations should be treated as a distinct class of devices from an IT administration perspective. This can facilitate isolating potentially deleterious updates from being applied to VidyoRoom SE systems.



## 2. Installing VidyoRoom™ SE on Your Windows-based Computer

The following procedures explain how to install VidyoRoom SE to run as an application on your Windows-based computer with or without the use of an optional performance profile.

### Note:

- The installation varies slightly if you are also installing a performance profile. For more information about performance profiles, see “Understanding VidyoRoom SE Performance Profiles” on page 4.
- VidyoRoom SE may be configured to run as an appliance as well.  
For more information, see “Configuring Your Windows-based Computer to Run VidyoRoom SE as an Appliance” on page 15.
- When upgrading your VidyoRoom SE software, the program may launch additional User Account Control dialog boxes asking “Do you want to allow the following program to make changes to this computer?” if you do not click Yes on the first one that appears.

### Installing VidyoRoom SE with a Performance Profile

**Note:** This same procedure is used if you have a preexisting VidyoRoom SE installation on your Windows-based computer before receiving a performance profile (if desired) from Vidyo Support.

#### To install VidyoRoom SE with a performance profile:

1. After purchasing and receiving your VidyoRoom SE software and your performance profile from Vidyo Support, copy the files to the **C:\Users\Public\Vidyo** folder on your Windows-based computer.

#### Note:

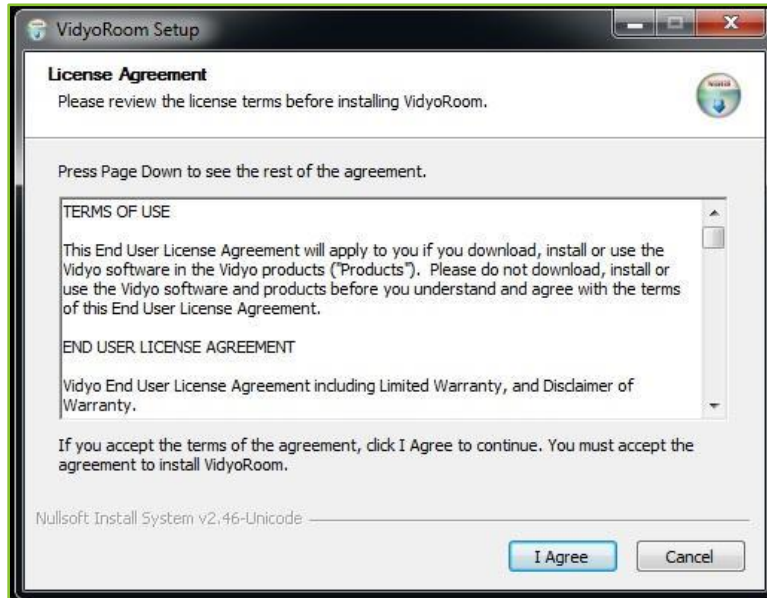
- After storing your performance profile in the **C:\Users\Public\Vidyo** directory, the location must be excluded from any virus scanning or network backup software routines.
  - If you have not received your performance profile, contact Vidyo Support.
2. Open an elevated command prompt using the following steps:
    - a. Enter **cmd** in the Search field on the Windows Start menu.
    - b. Right click the “cmd.exe” program shown under Programs in the search results.
    - c. Select “Run as administrator”.

3. Run the VidyoRoom SE installation file from the command line using the following **/D** switch:

**VidyoRoomSE<program version>.exe /D**

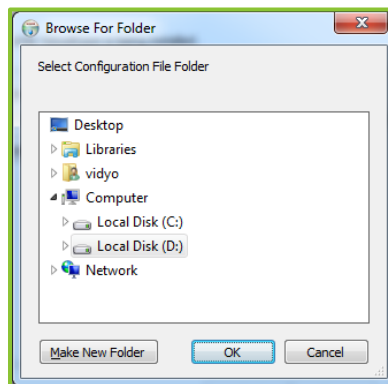
4. Press **Enter**.

The VidyoRoom Setup screen appears.



5. Click **I Agree**.

The "Browse For Folder" screen appears.



6. Navigate to the **C:\Users\Public\Vidyo** folder where you stored your performance profile on your Windows-based computer earlier in this process.

7. Click **OK**.

The installation proceeds from the 3<sup>rd</sup> step in the following procedure:

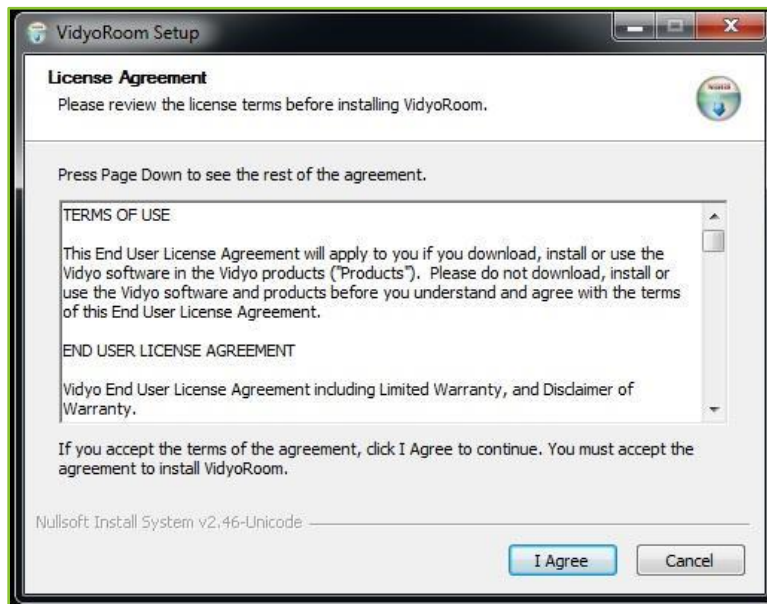
## Running the VidyoRoom SE Installer Without a Performance Profile

For more information about performance profiles, see “Understanding VidyoRoom SE Performance Profiles” on page 4.

To run the VidyoRoom SE installer without a performance profile:

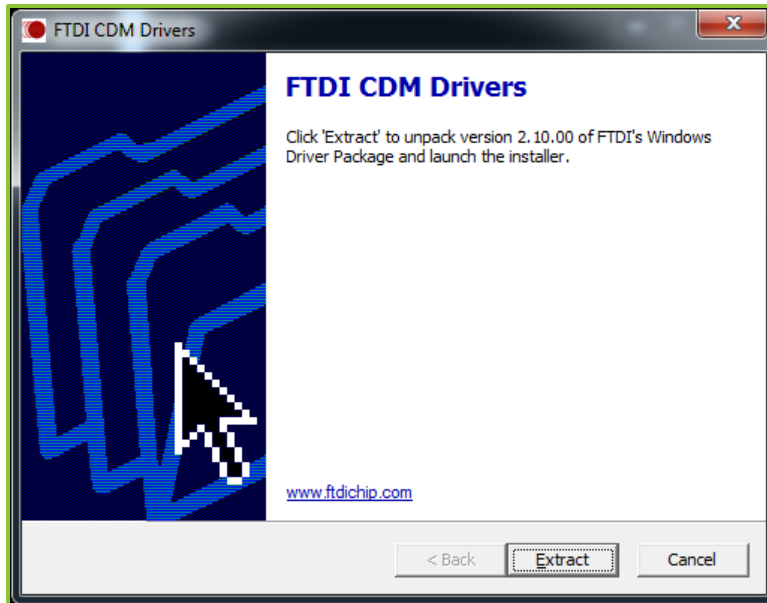
1. Double-click the VidyoRoom SE installation .exe file on your desktop.
2. If you are asked for permission to run the installer, click **Yes**.

The VidyoRoom Setup dialog box appears.



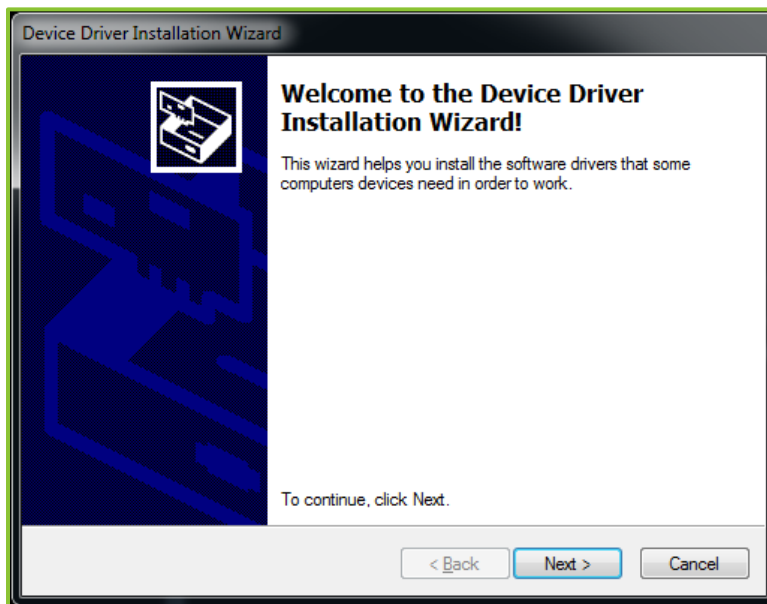
3. Click **I Agree**.

During the installation, the FTDI CDM Drivers screen appears. This part of the installation runs one time per Windows-based machine and provides the necessary drivers for using the IR remote control.



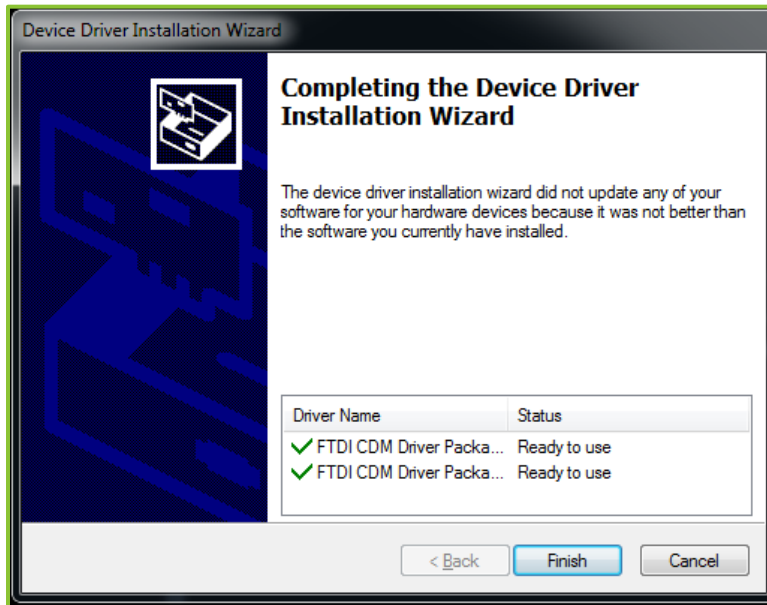
4. Click **Extract**.

The Device Driver Installation Wizard screen appears.



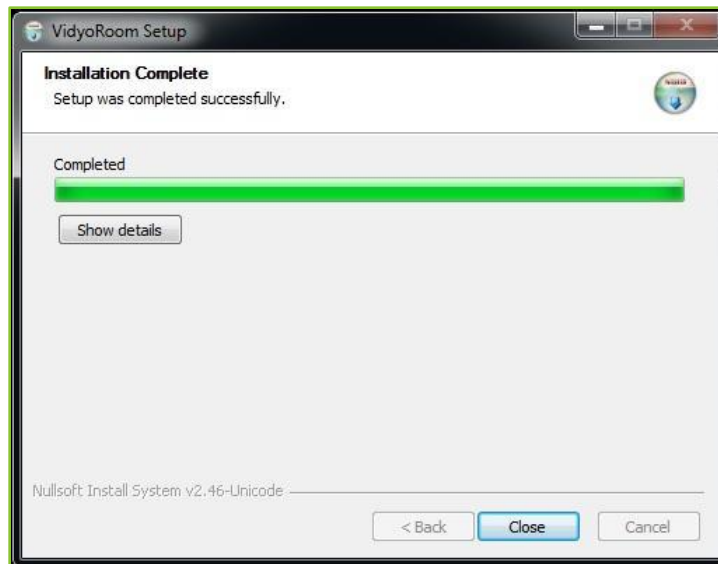
5. Click **Next**.

The Completing the Device Driver Installation Wizard screen appears.



6. Click **Finish**.

The VidyoRoom setup resumes until the status bar indicates “Completed”.



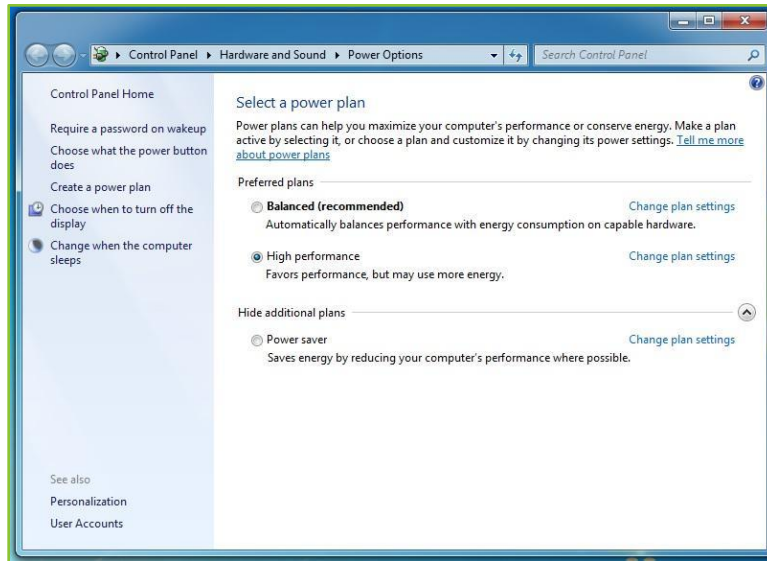
7. Click **Close**.

## Configuring Windows to Always Run in High Performance Mode

To configure Windows to always run in high performance mode:

1. Enter **Power Options** in the Search field on the Windows Start menu.
2. Press **Enter**.

The Power Options screen appears.



3. Select the **High Performance** option.
4. Click **Choose when to turn off the display** on the left menu.
  - a. In the “Turn off the display” drop-down, select **Never**.
  - b. In the “Put the computer to sleep” drop-down, select **Never**.
  - c. Click **Save changes**.
5. Close the Power Options screen.
6. Reboot your Windows-based computer before proceeding.

# 3. Configuring Your Windows-based Computer to Run VidyoRoom SE as an Appliance

You can lock down your Windows-based computer and have it run VidyoRoom SE as an appliance. This keeps users from accessing any systems or programs other than VidyoRoom SE on your Windows-based computer.

To configure your VidyoRoom SE software installation to run as an appliance:

1. Create an administrator account named Vidyo and configure Windows to automatically log in to this account.

**Note:** This typically requires your Windows-based computer is running the Windows Embedded operating system.

2. If your Windows-based computer has a Dual Port Dextera card, install the driver.
3. If your motherboard does not already have a dedicated COM port device, configure one of your USB ports to COM1.

For more information, see “Configuring a USB Port as a COM Port for VISCA Controls, When Needed” on page 20.

4. Use the following steps to configure the Balanced preferred plan as desired:
  - a. Enter **Power Options** in the Search field on the Windows Start menu.  
The Power Options screen appears.
  - b. Click the **Change plan settings** link to the right of the Balanced (recommended) option.  
The Edit Plan Settings screen appears.
  - c. Make your desired configurations for the behavior of your Windows-based computer while it's running VidyoRoom SE as an appliance and you are not in a conference.
  - d. Click **Save Changes**.

**Note:**

- This configures your Windows-based computer behavior while running VidyoRoom SE as an appliance and you are not in a conference.

- When the Balanced plan configurations are not made on your Windows-based computer, users have noticed the Windows Task Manager bar appears flickering at the bottom of the Home screen when not in a conference.
5. Use Power Options to select and configure the High performance mode to keep your Windows-based computer from going in to sleep or standby modes.

For more information, see “Configuring Windows to Always Run in High Performance Mode” on page 13.

6. Use the following steps to configure your screen saver as desired for your Windows-based computer behavior while it’s running VidyoRoom SE as an appliance:

- a. Enter **Change screen saver** or **Turn screen saver on or off** in the Search field on the Windows Start menu.

The Screen Saver Settings screen appears.

- b. Make your desired configurations.

- c. Click **OK**.

7. Use the following steps to turn off user account control (UAC) on your Windows-based computer:

- a. Enter **Change User Account Control settings** in the Search field on the Windows Start menu.

The User Account Control Settings screen appears.

- b. Move the slider all the way down to the Never notify position.

- c. Click **OK**.

**Note:** If you do not disable UAC, a User Account Control dialog box will appear asking “Do you want to allow the following program to make changes to this computer?” during VidyoRoom SE upgrades.

8. Restart your Windows-based computer.



# 4. Launching and Logging In to VidyoRoom SE

The following topics explain how to launch and log in to VidyoRoom SE on your Windows-based computer.

## Launching VidyoRoom SE

### Note:

- VidyoRoom SE should automatically launch when your Windows-based computer is powered on. However, in the event you close the application, the following procedure shows you how to launch it.
- If you need to configure static IP addresses while using VidyoRoom SE, you must launch the application with administrative privileges.

### To launch VidyoRoom SE:

1. Double-click the VidyoRoom SE shortcut on your desktop.
2. If there is no VidyoRoom SE shortcut on your desktop, create one by right-clicking the VidyoRoom SE application located in the **C:\Program Files\Vidyo\Vidyo Desktop** folder.

## Logging In to VidyoRoom SE

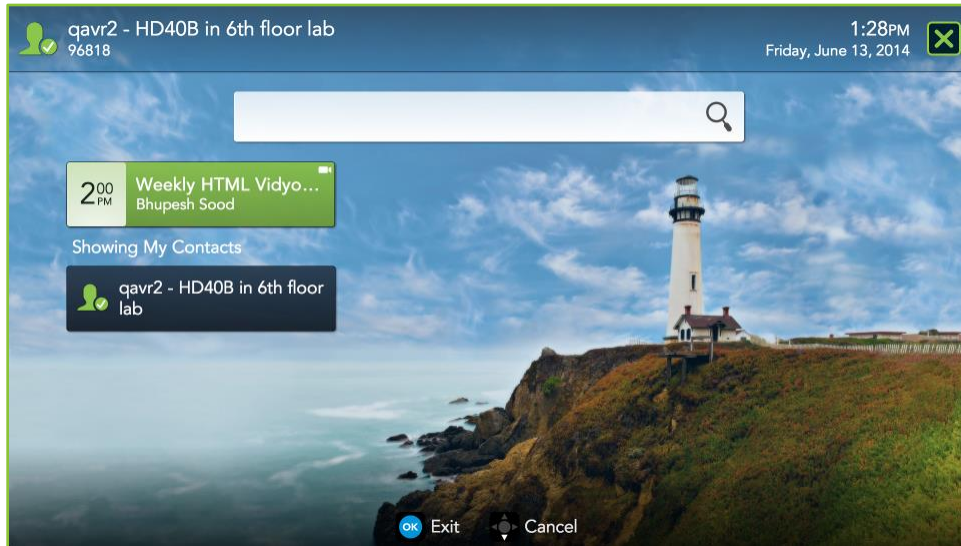
### To log in to VidyoRoom SE:

1. Double-click the VidyoRoom SE shortcut on your desktop.
2. Enter the username and password of the Executive account you are using for this VidyoRoom SE installation.
3. Enter the VidyoPortal to which you are connecting.
4. Select OK.

## Closing the VidyoRoom SE Application

To close the VidyoRoom SE application:

1. Press the up arrow key on your remote control until the Close button is highlighted in the upper-right corner of the screen.



2. Select **Exit**.

## Re-Launching the VidyoRoom SE Application

To re-launch the VidyoRoom SE application:

1. Double-click the shortcut you created on your desktop.  
For more information, see “Launching VidyoRoom SE” on page [17](#).

## Uninstalling VidyoRoom SE

To uninstall VidyoRoom SE:

1. Enter **Programs and Features** in the Search field on the Windows Start menu.
2. Press **Enter**.  
The Programs and Features screen appears.
3. Scroll down and find the program named “VidyoRoom **<version number here>**”.
4. Click **Uninstall**.

## Accessing the VidyoRoom SE Admin Portal

To access the VidyoRoom SE Admin portal:

1. Enter **<http://[IP]>** in a browser window.

2. Enter the username and password of the VidyoRoom SE Administrator account.
3. For more information, refer to the *VidyoRoom Administrator Guide*.

**Note:**

- Use http and not https when accessing your VidyoRoom SE Admin portal.
- VidyoRoom SE does not come with a Vidyo self-signed certificate bundle. You can use your own certificate, at which point https would work with your IP address.

## Understanding VidyoRoom SE Remote Control Options

VidyoRoom SE is compatible with VidyoRemote for iOS, VidyoRemote for Android, and Vidyo's infrared remote control.

For more information, refer to the *VidyoRemote for iOS Quick User Guide* and *VidyoRemote for Android Quick User Guide* on [www.vidyo.com](http://www.vidyo.com). For more information about Vidyo's infrared remote control, refer to any of the *VidyoRoom Getting Started Guides* at <https://selfservice.vidyo.com/> or at <http://support.vidyo.com>.

## Understanding VidyoRoom SE Keyboard Shortcuts

The following keyboard shortcuts are available while running your VidyoRoom SE application:

Command	Keyboard Shortcut
Connect	F2
Disconnect a Call	Ctrl+Backspace
Go Back	Esc
Manage (show the Manage screen)	Ctrl + M
Mute the Microphone	End
Privacy	Ctrl + P
Self-View (on/off)	Ctrl + V
Settings (show the Settings screen)	F3
Share (share/unshare)	Ctrl + H
Toggle Shares	Ctrl + T
Zoom In	Page up
Zoom Out	Page down

# 5. Configuring a USB Port as a COM Port for VISCA Controls

If your Windows-based machine does not have a dedicated COM port, you can configure a USB port as a COM port to manage any necessary VISCA controls.

To configure a USB port as a COM port for VISCA controls:

1. Log in to the Windows-based computer on which you wish to configure a USB port as a COM port for VISCA controls.
2. Plug in your USB to VISCA adapter from your Windows-based machine to your VISCA device.

**Note:** Carefully choose the specific USB port you wish to use. After completing this procedure, this specific USB port is the only one which may be used for your USB to VISCA adaptor connection.

3. Use the following steps to update Windows:
  - a. Enter **Windows Update** in the Search field on the Windows Start menu.
  - b. Click **Check for updates** on the left menu.
  - c. Select the optional update named “Prolific – Other hardware – Prolific USB-to-Serial Comm Port”.

**Note:** If the optional update named “Prolific – Other hardware – Prolific USB-to-Serial Comm Port” is not shown, you may already have the update.

  - d. Click **OK**.
  - e. Click **Install Updates**.

4. Use the following steps to configure the port:
  - a. Enter **Device Manager** in the Search field on the Windows Start menu.
  - b. Press **Enter**.

The Device Manager screen appears.
  - c. Right-click the “Prolific USB-to-Serial Comm Port” item under Ports.
  - d. Select **Properties**.
  - e. Click the **Port Settings** tab.
  - f. Click **Advanced**.

5. *Configuring a USB Port as a COM Port for VISCA Controls (When Needed)*

- g. In the COM Port Number drop-down, select **COM1**.
- h. Click **OK**.

**Note:** If a dialog box appears asking you if you want to proceed, click **Yes**.