

## **Installation Guide**



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## INSTALLATION

## Impact on Existing Installations of RayViz

• The current release of RayViz will overwrite previous installations of RayViz. Only one version of RayViz may be active in SolidWorks.

## **SolidWorks Requirements**

SolidWorks must first be installed on the computer that RayViz will be installed. Version 2020 of RayViz is compatible with:

• SolidWorks 2013 or later

## **System Requirements**

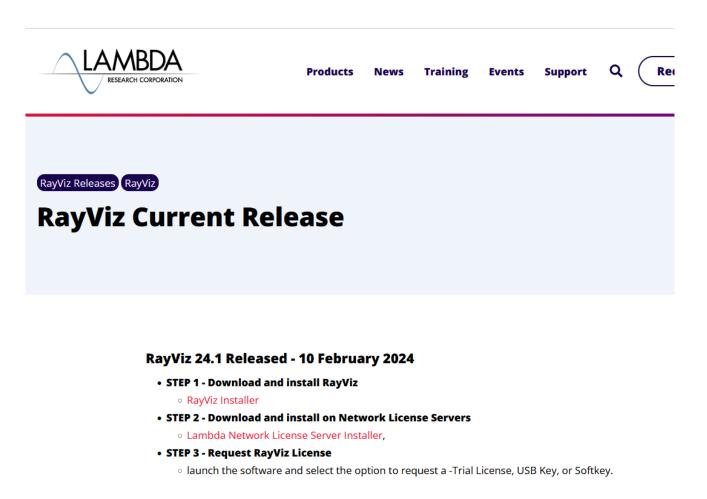
The system requirements for the RayViz need to account for both SolidWorks and TracePro if both programs are going to be run on the same machine. Consult the SolidWorks documentation for its requirements. TracePro has the following requirements. If both programs are going to be run on the same computer your system should exceed the higher of the recommendations.

Operating System	Windows 10 (64-bit)
	Windows 11 (64-bit)
Minimum RAM	2 GB
Recommended Operating System	Windows 10 (64-bit)

### Software Download

RayViz and additional support programs, examples, and documentation are available from the Lambda Research Corporation website.

• Go to http://lambdares.com/support/rayviz-current-release/



- Save the RayViz Installer.exe file to a convenient location on your computer. Double-click on the RayViz Installer.exe file to begin the installation.
- Network Licenses only download and install LambdaNetworkLicenseServerInstaller on the computer that will be acting as the RayViz License Server.

The RayViz software is also available on USB Flash Drive by request.

## **RayViz Installation**

- Prior to installing RayViz, exit any active sessions of SolidWorks.
- Double-click on the RayViz Installer.exe file.

🙀 RayViz - InstallShield Wizard	×
2	Welcome to the InstallShield Wizard for RayViz
	The InstallShield(R) Wizard will install RayViz on your computer. To continue, click Next.
	WARNING: This program is protected by copyright law and international treaties.
	< Back Next > Cancel

• Follow the steps of the RayViz Installation Wizard.

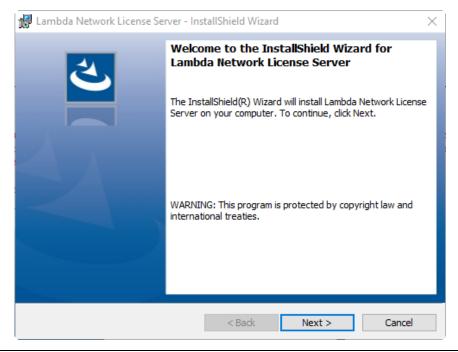
🔀 RayViz - InstallShield Wizard	×
<u>ح</u>	InstallShield Wizard Completed
	The InstallShield Wizard has successfully installed RayViz. Click Finish to exit the wizard.
	< Back Finish Cancel

• Click **Finish** to complete the installation.

## Lambda Network License Server Installation

There are two items of software that need to be installed on the computer that will be acting as the RayViz License Server for a network license, the CodeMeter Control Center and the License Troubleshooter. These two items are packaged into one installer.

• Double-click on the LambdaNetworkLicenseServerInstaller.exe file ...



**RayViz Installation Guide** 

🚼 Lambda Network License Se	rver - InstallShield Wizard	×
2	InstallShield Wizard Completed	
	The InstallShield Wizard has successfully installed Lambda Network License Server. Click Finish to exit the wizard.	
	< Back Finish Cancel	

• Follow the steps of the Lambda Network License Server Installation Wizard.

• Click **Finish** to complete the installation.

## Launching RayViz

To launch RayViz, start SolidWorks.

The default condition is that the RayViz add-in will be loaded when SolidWorks starts.

If RayViz finds an available license the program will run.

The RayViz Add-In can be turned ON or OFF by selecting Tools/Add-Ins in SolidWorks and checking the boxes for Active and Start Up.

Add-In	s		×
Active A	.dd-ins	Start Up	Last Load Time
	DWORKS Premium Add-ins		
	CircuitWorks		
	FeatureWorks		
	PhotoView 360		
	ScanTo3D		
□≪ <mark>`</mark> ×	SOLIDWORKS Design Checker		< 1s
	SOLIDWORKS Motion		
loje	SOLIDWORKS Routing		
	SOLIDWORKS Simulation		
	SOLIDWORKS Toolbox Library		
	SOLIDWORKS Toolbox Utilities		
8	SOLIDWORKS Utilities		
	TolAnalyst		
SOL	DWORKS Add-ins		
	3DEXPERIENCE Exchange		
🗹 🌚	3DEXPERIENCE Marketplace	$\checkmark$	2s
	Autotrace		
	SOLIDWORKS CAM 2023	$\checkmark$	1s
	SOLIDWORKS Composer	$\checkmark$	< 1s
	SOLIDWORKS PCB 2023		
Part	ner Solution Add-ins		
	RayViz	$\checkmark$	2s
	er Add-ins		
	3DCloudByMe Plug-in		
	SOLIDWORKS XPS Driver 2023		
	OK Cancel		

## Launching the License Troubleshooter from a Network License Server

To launch the License Troubleshooter, select the icon from the Windows Start menu.



The Lambda License Troubleshooter dialog will appear.

Lambda License Troubleshooter	$\times$
Lambda Product: RayViz	
Select a product to request a license for or to troubleshoot a product license issue.	
ОК	

Select RayViz and click OK to launch the RayViz License Troubleshooter.

## LICENSING

## **License Options**

There are three decisions to make when purchasing a RayViz license:

- Single-computer vs. Network
- USB License vs. Soft License
- Multiple Product License vs. Separate License

#### Single-computer vs. Network

Single-computer license

- Allows one user to run multiple instances of RayViz on one computer
- The license services and utilities are included in the installation of RayViz

Network license

- Allows several users on a single Local Area Network (LAN), or with remote access to that network, to share licenses of RayViz
- One computer on the network acts as the RayViz License Server RayViz can be, but does not need to be, installed in the License Server the license services and utilities must be installed on the License Server if the application is not installed
- RayViz must be installed on each user's computer

#### USB License vs. Soft License

USB License

- License information is contained within the USB dongle
- Physical USB dongle must be connected to the computer
- Portable can be transferred to another computer

Soft License

- License is linked to unique hardware and software identifiers of the computer
- No physical USB dongle to connect
- Not portable will only work on the specific hardware/software configuration for which it was generated

Special considerations for Soft Licenses:

- Moving the License the process for moving a Soft License to a new computer is to first remove the existing license, then to obtain a new license
- System Restore If a System Restore is performed, this will deactivate the license
- Virtual License Servers if a virtual license server is moved to a different physical server, this will deactivate the license

#### Multiple Product License vs. Separate License

- Multiple Product License (TracePro/OSLO/RayViz) advantage is that there is only one license to maintain
- Separate License advantage is that single-computer licenses can be run on different computers

## **Requesting a New License**

When SolidWorks is launched with RayViz is installed, (or when the RayViz License Troubleshooter is launched on a Network License Server) and no valid license is detected, the RayViz License Troubleshooter dialog will open.

Nalicar	nse is available to run	Davide				
NO licer	ise is available to run	Kayviz				
If you	are new to RayViz and	d would like to start a	Trial, select	Request Trial L	icense	
If you	use a USB License to r	un RayViz, make sure	that it is correct	ly plugged in.		
If you select	use a USB License to r	un RayViz and have	vet to request a r	new CodeMeter USB	License,	Request USB License
(Requir	res a current maintena	ance and support con	tract)			
If you	use or will use a Soft L	icense to run RayViz,	select	Request Soft License	e	
	use a network license, and that this compute					d on the
If your	network license is bei	ng served by a comp	uter that is on a c	lifferent subnet, sele	ect Se	t Server Name
If you	would like to purchase	RayViz, select	Purcha	se License		

- Request Trial License select this option to send a CodeMeter context file to sales@lambdares.com
- Request USB License select this option if you have a current Maintenance and Support subscription for
- TracePro Bridge and would like to receive your RayViz CodeMeter USB dongle to run RayVix 7.8.0 and later.
- Request Soft License select this option to send a CodeMeter context file to <u>license@lambdares.com</u>
  Set Server Name select this option to specify a server for a network license (searches entire subnet by default)
- Purchase License select this option to specify a server for a network needs (searches entrie subnet by dental purchasing a license for RayViz

ALL - Please include your name and organization in the e-mail

NOTE – For customers that do not have an e-mail client installed or actively setup, the automatic e-mail and file attachment feature will not succeed. The context file named "RayViz32767-xxxxxxx.WibuCmRaC" is also saved to your Desktop so you can send it to us.

## **Activate License**

Upon receipt of a CodeMeter Update file, save the file, then double-click on the file to activate the license.

## SOFTWARE UPDATES AND MAINTENANCE TASKS

## About RayViz for SolidWorks

To view the About RayViz for SolidWorks window, select Tools / RayViz / About RayViz from the SolidWorks menu.

The About RayViz for SolidWorks window displays the following information:

- RayViz for SolidWorks Release
- Permanent License OR Days Remaining on Temporary License

About RayViz for SolidWorks		$\times$
<b>⊠</b> Ray <b>Viz</b>	RayViz™ 2024 for SolidWorks - 24.1 Release (build 24038)	
SolidWorks Satura	Temporary license expires on December 31, 2024.	
	Copyright © 2005 - 2024 Lambda Research Corporation	
	OK	

## **RayViz License Information**

To open the RayViz License Information dialog, select Tools / RayViz / License from the SolidWorks menu.

Select an item in the List of License(s) to view the information about that license. An example of the License Information screen is shown below.

List of License(s):	License Details:	
2-3012839	License Serial No: 2-3012839 This is a Lambda Research USB License. RayViz network license. You are entitled to run RayViz version 24.1.0. Network RayViz license seats: 1 Temporary license expires on December 31, 2024.	^
	he list above to upgrade or resolve.	
Resolve	Refresh Upgrade	

#### Resolve

• select this option to troubleshoot a licensing issue

#### Refresh

• select this option to refresh the license information after connecting/disconnecting USB dongles or network connections

#### Upgrade

• select the license in the List of License(s), then select this option to open another page of options related to making changes to the existing license

After selecting Upgrade, three options are available:

RayViz	License Information	×
Upgrade fo	or license serial no. 2-2542469	
If you hav temporary	ve purchased an upgrade or modification to your license or are upgrading from a Upgrade License v license to a permanent one, select	
If you wou	uld like to request a quote to add licenses, select Purchase Upgrade	
If you wou	uld like to send a receipt for an updated license, select Send Receipt	
	OK License List	

#### Upgrade License

• select this option to upgrade the current RayViz license (add time to a temporary license, etc) – this option sends an e-mail to <u>license@lambdares.com</u> with a context file taken from an existing license

#### Purchase Upgrade

• select this option to upgrade the current RayViz license (add time to a temporary license, etc) – this option sends an e-mail to <u>sales@lambdares.com</u> with a context file taken from an existing license

#### Send Receipt

 select this option to send verification that a license update has been activated (most commonly used for a soft license exchange) – this option sends an e-mail to <u>license@lambdares.com</u> with a context file taken from an existing license

## **Check for Updates**

Select Tools / RayViz / Check for Updates from the SolidWorks menu.

If the latest release is already installed, the following message will be displayed:



If the latest release is not already installed, a message will be displayed. An example of this message is shown below.

Download RayViz	$\times$						
RayViz 21.1.0 is available on Lambda Research Corp website. Do you want to download?							
Check for updates at startup							
Yes No							

## Monitoring Network License Usage

The CodeMeter licensing used by RayViz has an interface to obtain the status of a network license. From the Windows Start Menu, select Programs / CodeMeter / CodeMeter Control Center.



This launches the CodeMeter Control Center.

ScodeMeter Control Center			_		$\times$
File Process View Help					
License Events					
Cambda Research USB key 2-2542469	Name:	Lambda Research USB key			Ø
	Serial:	2-2542469			9
	Version:	CmStick 2.04			ଣ
	Capacity:	93 % free (365920 Bytes)			
	Status:	O S Disabled			
		Correction Enabled until unplu	igged		
		Contraction     Contraction     Contraction			
	License Update	Eject Change Pass	word		
CodeMeter is started.				Web/	Admin

Select the Web Admin button (lower-right).

This will launch CodeMeter WebAdmin in your web browser. Select the License Monitoring tab.

~	10	CodeMeter Test Firm Code						
~	99	Firm Security Box Item						
~	100003	Bundling Articles						
~	100021	WIBU-SYSTEMS AG						
~								
	101771 luct Code 🔶 Nar	Lambda Research Corporation	-	^ Ea	ature Map 🔶 Licens	o Quantity 🔺	Used 🌲	Available 🌻
FIU		acePro LC			xe8000000	10	0	10
		acePro Standard			xe8000000	10	0	10
	120 Tra	acePro Expert			xe8000000	10	0	10
		lo Light		0	x0	10	0	10
	210 Os	lo Standard		0	x0	10	0	10
	220 Os	lo Premium		0.	x0	10	0	10
	300 Ra	yViz for SolidWorks		0	x0	10	0	10

Current Server: PASCAL (192.168.25.73) 🤣 🏾 🖲

WebAdmin Version: 6.70

Please note that the default Current Server is localhost, so the License Monitoring screen will only display licenses hosted on the local computer.

To view licenses from a different server, double-click on "Current Server: localhost" (bottom of window) select another server from the network, then click Apply.

This example is showing a Network License on the server named Pascal, with 10 licenses available for several items of Lambda Research software.

## Transferring RayViz to a New Computer

When RayViz is installed on a new computer, there are 3 items that need to be transferred from the old computer, (1) the license, (2) the Properties Database, and (3) the initialization files:

#### License

The transfer of the license is dependent on the license type

- Single Computer USB License disconnect the USB dongle from the old computer and connect it to the new computer
- Single Computer Soft Licenses since the soft license is bound to the hardware of the computer, the old soft license will need to be removed and a new soft license issued.
  - From the old computer, follow the steps to Upgrade an Existing License per Page 11 (the "upgrade" will be the removal of the license)
  - From the new computer, follow the steps to Request a New License per Page 8.
- Network USB License or Soft License
  - o If the network license was served from another computer on the network, there is no action at this time.
  - If the network license was served from this computer, follow the steps in the next section for Transferring the TracePro Network License to a New License Server.

#### **Properties Database**

The default name of the TracePro Properties database is TracePro.db, and its default location is

C:\Users\<USERNAME>\AppData\Roaming\LambdaResearch Corporation\RayViz

If the filename or location were modified, select Tools/RayViz/Database in Solidworks on the old computer to obtain the filename and filepath.

Move the TracePro Properties database to the same location on the new computer. A new Properties Database may have been placed in the same location on the new Computer by the RayViz Installation, if so, replace this file with the database from the old computer.

#### Initialization File

There is a file that is read by RayViz at each launch that includes preference selections and license information, RayViz.ini. The location of this file is:

C:\Users\<USERNAME>\AppData\Roaming\LambdaResearch Corporation\RayViz

Move RayViz.ini to the same location on the new computer. New .ini files may have been placed in the same location on the new computer by the RayViz Installation, if so, replace these files with the .ini files from the old computer.

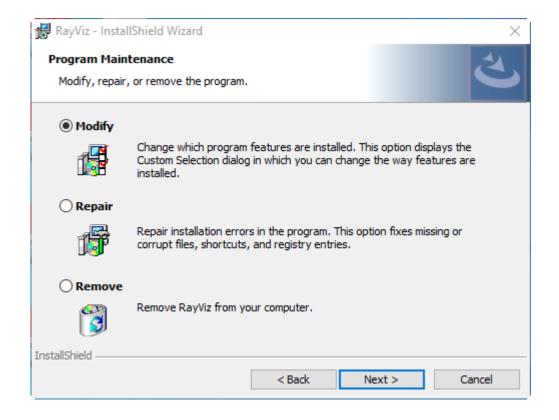
# Transferring the RayViz Network License to a New License Server

The transfer of the license is dependent on the license type

- Network USB License
  - Perform the Lambda Network License Server Installation per Page 4.
  - o disconnect the USB dongle from the old computer and connect it to the new computer
- Network Soft License since the soft license is bound to the hardware of the license server, the old soft license will need to be removed and a new soft license issued.
  - From the old license server, follow the steps to Upgrade an Existing License per Page 11 (the "upgrade" will be the removal of the license)
  - On the new license server, perform the Lambda Network License Server Installation per Page 4.
  - From the new computer, follow the steps to Request a New License per Page 8.

## Modify, Repair, or Remove the Program

- In order to Modify, Repair, or Remove RayViz, initiate the RayViz installation by double-clicking RayViz...Installer.exe.
- Click **Next** to continue.
- If RayViz detects that the same release has already been installed, the following screen will appear:



- Choose **Modify** to open the Select Feature dialog box to choose which installation components to install or uninstall at this time.
- Choose **Repair** to automatically run a Maintenance routine to reinstall any corrupted files from a prior installation.
- Choose **Remove** to uninstall the program.

## **QUICKSTART GUIDES**

## **Quickstart Guide 1 – Single-computer / Soft License**

- Software Download per Page 2
- RayViz Installation per Page 3
- Launching RayViz per Page 5
- Requesting a New License per Page 8
- Activate License per Page 8

## **Quickstart Guide 2 – Single-computer / USB License**

- Software Download per Page 2
- RayViz Installation per Page 3
- Connect the USB dongle
- Launching RayViz per Page 5

## **Quickstart Guide 3 – Network / Soft License**

Network License Server

- Lambda Network License Server Installation per Page 4
- Requesting a New License per Page 8
- Activate License per Page 8

#### Each RayViz User:

- Software Download per Page 2
- RayViz Installation per Page 3
- Launching RayViz per Page 5

## **Quickstart Guide 4 – Network / USB License**

Network License Server

- Lambda Network License Server Installation per Page 4
- Connect the USB dongle

#### Each RayViz User:

- Software Download per Page 2
- RayViz Installation per Page 3
- Launching RayViz per Page 5

# TROUBLESHOOTING GUIDE – INSTALLATION AND LICENSING

## Installation Troubleshooting

There are several files that need to be installed in order for the RayViz Installation to be successful:

• Windows Installer files

If the RayViz Installation fails with a message about any of these file types, please perform a Windows Update. From the Windows Start Menu, select Control Panel/Windows Update, and select the button to Check for Updates. Install the recommended updates, reboot, then try installing RayViz again.

## License Troubleshooting

#### No license is located

When RayViz is launched (or when the RayViz License Troubleshooter is launched on a Network License Server) and no valid license is detected, the RayViz License Troubleshooter dialog will open.

- Request Trial License
  - o select this option to send a CodeMeter context file to license@lambdares.com
  - upon receipt of a CodeMeter Update file from <u>license@lambdares.com</u>, save the file, double-click on the file to activate the license, then launch RayViz
- Request USB License
  - select this option if you have a current Maintenance and Support subscription for RayViz and would like to receive your RayViz CodeMeter USB dongle to run RayViz 7.8.0 and later.
  - o upon receipt of the CodeMeter USB dongle, connect the dongle, then launch RayViz
- Request Soft License
  - o select this option to send a CodeMeter context file to license@lambdares.com
  - upon receipt of a CodeMeter Update file from <u>license@lambdares.com</u>, save the file, double-click on the file to activate the license, then launch RayViz
- Set Server Name see separate section below
- Purchase License
  - select this option to send an e-mail to <u>sales@lambdares.com</u> to request information about purchasing a licenses for RayViz.

#### A license has been located, but fails

If a license is located, but it fails to launch RayViz, the RayViz License Troubleshooter will open.

📓 RayViz	License Information		×
No	icense is available to run RayViz		
Ify	ou are new to RayViz and would like to start a Trial, select	quest Trial License	
Ify	ou use a USB License to run RayViz, make sure that it is correctly plugg	ed in.	
If y	ou use a USB License to run RayViz and have yet to request a new Coc	eMeter USB License, Reque	st USB License
	quires a current maintenance and support contract)		
Ify	ou use or will use a Soft License to run RayViz, select Reques	t Soft License	
	ou use a network license, make sure that the new CodeMeter network ver and that this computer has access to the network on which the licer		
Ify	our network license is being served by a computer that is on a different	subnet, select Set Server	Name
Ify	ou would like to purchase RayViz, select Purchase Licer	se	
		ОК	

Select an item in the List of License(s) then select Resolve to start the troubleshooting process.

#### Possible Causes of License Issues

This is a list of some possible causes of license issues:

- Codemeter Drivers are failing/not installed
- License does not support the Software Release that was launched
- USB Port Failure
- USB Dongle Failure
- License Programming Error
- Network License(s) are already in use
- No Network Connection to Server
- Network License Server is on a different Subnet than the client
- Conflict with another Codemeter License
- A temporary license has expired
- Clock Tampering

#### Set Server Name

RayViz will automatically detect a network license if the license server and the client are on the same subnet. If the client is not on the same subnet, the RayViz License Information dialog will open.

🔝 RayViz	License Information	×
No lice	ense is available to run RayViz	
If you	u are new to RayViz and would like to start a Trial, select Request Trial License	
If you	u use a USB License to run RayViz, make sure that it is correctly plugged in.	
select	u use a USB License to run RayViz and have yet to request a new CodeMeter USB License, Request USB License t t uires a current maintenance and support contract)	
If you	u use or will use a Soft License to run RayViz, select Request Soft License	
	u use a network license, make sure that the new CodeMeter network license is correctly installed on the or and that this computer has access to the network on which the license is installed.	
If you	ur network license is being served by a computer that is on a different subnet, select Set Server Name	
If you	u would like to purchase RayViz, select Purchase License	
	ОК	

Select Set Server Name, and CodeMeter WebAdmin will open in your web browser:

SYSTEMS			CodeM	eter Web	Admin			С
Dashboard	Container ~	License Monitoring ~	Diagnosis ~	Configuration ~	Info			
🔅 Basic Con	figuration Serv	er Search List				0	0	👅 English (US) 👻
Server	Search List	Proxy WebAdmin	Backup					
Serve	r Search Lis	t						
<b>1.</b> Aut	omatic server s	earch (255.255.255.255)	)	<b>(</b>				
•	add new Server							
			Apply	Restore Defau	ilts			

Select Add New Server

<b>WIBU</b> SYSTEMS			CodeM	eter Web	Admin		С
Dashboard	Container ~	License Monitoring ~	Diagnosis ~	Configuration ~	Info	w	Image: Second
Server Serve 1. Aut	Search List	Proxy WebAdmin t earch (255.255.255.255		e)	_		
			Apply	Restore Defau	llts		

Enter the Server Name or IP Address, then click OK.

SYSTEMS	CodeMeter WebAdmin					า	C
Dashboard	Container ~	License Monitoring ~ er Search List	Diagnosis ~	Configuration ~	Info		🖌 💽 English (US) 🗸
Serve		Proxy WebAdmin t earch (255.255.255.255		@ C @	ò		
•	add new Server		Apply	Restore Defau	lts	-	

Click Apply. Now, when RayViz is launched, it will search for a license based on this Server Search List.

#### Double-click to Activate license fails

On occasion, the attempt to double-click on the license file to activate or update a license will fail due to a file association error, Windows cannot determine what application should be run to handle the license file.

The license module in RayViz is CodeMeter from Wibu Systems. Codemeter is installed with RayViz, and has a separate User Interface. From the Windows Start Menu, select Programs / CodeMeter / CodeMeter Control Center.



Drag and Drop the license file into the CodeMeter Control Center dialog to activate the license.

ScodeMeter Control Center		-	-		×
File Process View Help					
License Events					
S Lambda Research USB key 2-2542469		Lambda Research USB key			Ø
	Serial:	2-2542469			9
	Version:	CmStick 2.04			ଷ
	Capacity:	93 % free (365920 Bytes)			
	Status:	🔿 🞯 Disabled			
		🔿 🮯 Enabled until unplugg	jed		
		🖲 😋 Enabled			
	License Update	Eject Change Passwo	ord		
CodeMeter is started.			[	Web	Admin

## **APPENDIX A – IMAGE OF CODEMETER USB DONGLE**

There are numerous markings on the CodeMeter dongle. The Serial Number is of the format x-xxxxxx, and is visible when the side labeled "CodeMeter" is up.

