Installation Guide

TypeStream Visual NGS Analysis Software Version 3.0

Catalog Number: TSVPGR



In Vitro Diagnostic Medical Device.

Product is for in vitro diagnostic use in the European Union Only.

For Research Use Only in US and Canada. Not for use in diagnostic procedures



This software is for In Vitro Diagnostic Use in the European Union Only. For Research Use Only in US and Canada. Not for use in diagnostic procedures

This software is meant as a laboratory aid, not as a source of definitive results. The laboratory director or technologist trained in histocompatibility testing is required to review all data to detect any problems with the software.



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System Requirements

Before you begin:

You will need Administrator level access on your computer to install TypeStream[™] Visual NGS Analysis Software (TSV) version 3.0. If you do not have Administrator access, contact your system administrator for help with this installation.

Minimum Software Required

- Microsoft® Windows® 10, 64-bit operating system
- Microsoft .NET 4.8.1 Framework included in installation
- Microsoft Visual C++ 2019 Redistributable package included in installation
- SAP Crystal Reports 13.0.17 Runtime for .Net 4.6.1 included in installation
- The system requires Microsoft SQL Server SQL Server 2014 Express included in the installation
- WinZip not included in installation

Minimum Hardware Required

Minimum required hardware for TypeStream Visual Software.

- The system shall support an 8-bit graphic adapter and display (for 256 simultaneous colors)
- The system requires a mouse or other Windows compatible pointing device.
- The system shall operate on a VGA display with 1920 x 1080 screen resolution.
- The system shall run on 4-core processor with 8 threads.
- Minimum of 16GB RAM.

Microsoft SQL Server Considerations

Use the standalone installation process described in <u>Appendix A</u>, <u>Checklists for Installation</u> Configurations. If you want to use a SQL Server from another location, one of two things must be done:

Note: The SQL Server Express version supplied with TypeStream Visual Software does not have all the functionality of the full version of SQL Server. For example, it allows a maximum of 10 GB of storage space. There are a variety of SQL Server versions you can use with TypeStream Visual, so be sure to check the limitations of the version you plan to use. See your system administrator for further guidance and information on installing SQL Server.

Installing TypeStream Visual Software 3.0

Step 1: Download the TypeStream Visual Software

Note: Administrator equivalent privileges are required to install the TypeStream Visual NGS Analysis Software.

Download and extract the latest version of the software **TSV_3.0_Setup.zip** to your local drive from <u>TypeStream™ Visual NGS Analysis Software</u>

Right click on the TSV_3.0_Setup.exe and click on Run as administrator.

^	Name
	TSV 3.0 Setup.exe
Open	
🌻 Run as administrator	

Click on Yes on the below dialog.



Step 2: Install components

Once installation begins, the installer looks for the required components on your computer (Microsoft SQL Server and Microsoft .NET Framework) and automatically prompts you to install any missing component(s).

If you see the following requirements dialog box, click Install to start the installation process for the required component(s). If you do not see the dialog box as in the below screenshot, the required programs are already installed, and you may proceed to Step 3 to start TypeStream Visual installation.

TSV 3.0 updates your version of Microsoft Visual C++ runtime. Click Install:



Click 'Finish' on the final screen.

At this point, TSV may ask you if you want to **reboot**. It is advisable to do so at this point. The installer will automatically continue after your computer restarts:

tatus	Requirement
nstalling	Microsoft Visual C++ 2019 Redistributable Package (x64)
	TSV 3.0 - InstallShield Wizard 🛛 👋
	? The installation of TSV 3.0 requires a reboot. Click Yes to restart now or No if you plan to restart later.
	Yes No

Step 3: Install TSV 3.0

At the welcome screen, please wait while your system space requirements are calculated, and files are extracted by the installer.





When the Next button is activated, click it to proceed. The License Agreement now displays:

🙀 TSV 3.0 - InstallShield Wizard			×	
License Agreement Please read the following license agreem	ent carefully.		4	
By clicking "I accept" below, you, the user, agree to the terms of the following agreement with One Lambda, Incorporated. To indicate your acceptance of this license agreement, click the "I accept" radio button, and then Next .				
 SUMMARY OF AGREEMENT All One Lambda software is licensed for the express use of the customer and is non transferable. The enclosed software is the sole property of One Lambda, Inc. and its contents are protected by the copyright laws. The lineare protected by the copyright laws. 				
\textcircled{O} I accept the terms in the license agreeme \bigcirc I do not accept the terms in the license a	ent Igreement	Prin	t	
InstallShield	< Back Nex	xt > Cano	el	

Please read and accept the terms of the License Agreement. The Print button is available if you would like a printed copy of the Software License Agreement.

Select the option, I accept the terms in the license agreement and click the Next button to continue.

The Destination Folder dialog box now displays:

🔀 TSV 3.0 -	InstallShield Wizard			×
Destination Click Nex	on Folder It to install to this folder, or did	k Change to install	to a different folde	と
	Install TSV 3.0 to: C:\Program Files (x86)\One La	ambda \TSV 3.0 \		Change
InstallShield –		< Back	Next >	Cancel

Verify or change the destination folder for the TypeStream Visual Program files and click the Next button to continue.

The installer is now ready to install the TypeStream Visual software:

🔀 TSV 3.0 - InstallShield Wizard			×
Ready to Install the Program The wizard is ready to begin installation	l.		さ
Click Install to begin the installation.			
If you want to review or change any of exit the wizard.	f your installation	settings, click Back	. Click Cancel to
InstallShield	< Back	Install	Cancel

Click the Install button (above) to begin installing TypeStream Visual. Please wait as the installation progresses:



When the installation finishes, two program icons appear on the desktop.



The Installer wizard displays a message that the Installation is Completed. The software is installed under C:\Program Files (x86) \One Lambda\TSV 3.0 folder.



Select the check box for Launch TSV 3.0, and then click the Finish button.

Note: Please note that the installation of TypeStream Visual creates a directory called C:\OLI TSV, as well as some sub directories such as data, rpt, and temp. The location of these directories is set during installation. Please do not copy, modify, or remove any files from the C:\OLI TSV\data\catalog or C:\OLI TSV\rpt directories.

The installer automatically launches the TypeStream Visual application (This may take a few moments.) If TypeStream Visual does not start, double-click the TSV 3.0 icon on your computer desktop:



Proceed to Step 4 to create and/or connect a database to the TypeStream Visual application.

If the TypeStream Visual database connection is not yet set up when the program is launched, (as is the case the very first time it is launched) a System Initialization message is displayed to indicate this. Click the Continue button and proceed to step 4 to create and/or connect a database to the application.

🚯 TypeStream Visual
TypeStream Visual
System Initialization
The system needs to initialize and configure
TypeStream Visual environment before it can be used.
Do you want to continue?
Continue Exit

Step 4: Connect to a Database



Select Server/Standalone install option.

📲 Connect To SQL	Server		-		Х
TypeStream	Visual	45			(
SQL Server SQL Server :	(local)\FUSION_SQL	14EXP	~	·	
Connect Using					
Windows aut	thentication				
SQL Server	authentication				
Login Name :	sa]	
Password :]	
	Encrypt password				
	ОК		Exit		
Version: 3.0.0.272	232				
	A				

Click the OK button. If the Encrypt password is checked, the configuration file in the application folder has the database server credentials encrypted).

1. Create a new database.

Applies to labs that are installing TSV software for the first time.

To create a new database, enter a unique name for the new database, and click the New Database button. After the database has been created, click the Set button (not shown):

🚯 Connect to existing database
TypeStream Visual
SQL Server SQL Server : (local)\FUSION_SQL14EXP
Database Database Name :
File Size (GB) : 10.0
New Database Exit

A confirmation message is displayed when the database is created. Click **Yes** to connect, then another message will display when you have successfully connected:

TypeStrear	n Visual	\times
?	Database test_rv1_tsvi successfully created. Do you want to connect to it?	
	Yes No	
	Database Connection X	
	Database connected successfully.	
	ОК	

Click the **OK** button on the success message. The TypeStream Visual application should automatically launch. If it does not, double-click the TSV 3.0 icon located on your computer desktop.

 Connect to an existing database. If you want to use an existing database from an earlier version of TSV, you will need to use the TSV 3.0 DB Utility to upgrade the database so it can be used with TypeStream Visual 3.0. To do this, first launch the DB Utility and select an SQL Server:

😰 Connect To SQL Server —	\times
TypeStream Visual	
SQL Server SQL Server : (local)\FUSION_SQL14EXP ~ _	
Connect Using	
O Windows authentication	
SQL Server authentication	
Login Name : sa	
Password :	
Encrypt password	
OK Exit	
Version: 3.0.0.27232	

You will then see the main menu of the DB Utility (shown below). At the main menu, click Upgrade prior versions of TSV database to 3.0 (1), then in the Database Name (2) drop-down control, pick the database you wish to upgrade:

🙀 Database Utility	– 🗆 X
TypeStream Visual	
 □ Database Tasks □ Create TSV Database □ Select/Connect to TSV Database □ Detach Database □ Database	Ause
User Name: FUSION_USER Server Name: (I (local)\FUSION_SQL19EXP Database	Name: 1108Formal1_19 Database Mode: Server/Standalone

In the screen shown above, you can ask that a backup be created of the original database (3) and you can view the database upgrade steps (4). Click the Upgrade (5) button to begin the operation. While the database is upgraded, you will see a progress bar and status messages:

Data Migration	Backup original database before upgrade Backup Path: C:VOLI TSV/data\temp
Г	View Script Upgrade Exit
	Upgrading to TSV 3.0 database - Updating Scripts

If the upgrade succeeds, you'll get a message asking you if you want to connect to the upgraded database. Click **Yes**. You can now proceed to use your upgraded database. Quit the DB Utility and start TSV 3.0.

TypeStrea	am Visual	\times
1	Database TSV_Empty_DRY_Run successfully upgraded. Do you want to connect to the upgraded TSV Database TSV_Empty_DRY_Run now?	
	Yes No	

If the upgrade is not supported on the database you selected, you will get a message similar to the following:



3. Set Up the first user profile and lab information (new database only).

Note: If this is the first time you have connected to this database, you will need to set up User and Lab profiles.

When the software launches with a connection to a new database, the User Info Screen appears. Fill in all required fields, (denoted with an asterisk*) to set up a User Profile and click the Next button.

User Info	
TypeStream Vis	sual 🕘 🔵 🔵
Last Name*:	
First Name*:	
M. I.:	
Role*:	Lab Supervisor 🗸
	Active
Hear Name*:	
D It	
Password ⁻ :	
Confirm Password*:	
	X Must be minimum 10 characters
	X Must include a lower case letter
	X Must include an upper case letter X Must include a number
	X Must include a special character
	X New password and Retype/Confirm password match
What is the name of your b	est childhood friend?
What is the name of the ci	ty in which you were born?
	Next >> Cancel
	••

Enter all necessary information on the **Lab Profile Screen** (an asterisk * denotes required fields and the black camera icon lets you see sensitive hidden information such as passwords. The red "x" will change to green when the stated validation criteria are met for the password).

Note: The <u>first</u> user is always set to the **Lab Supervisor Role**. Lab name and contact information will be displayed in the footer section of the TypeStream Visual reports.

Click the **Next** button:

Lab Profile		
TypeStream Visua		
Lab Name*:	Director or Contact*:	
Institute:	E-mail*:	
Address*:	Phone:	
City:	Fax:	
State:	Staff Count	
Region:	Note(s):	
Country:	Mail Server Name:	mail.onelambda.com
Postal Code:		
Lab Code(s) Lab Co	de Description Default	Add Lab Code
		Edit Lab Code
		Delete Lab Code
One Lambda Distributor:		Next >>
Contact Email:		
Note: The Lab information will be p	ninted on TypeStream Visual reports.]
AONE LAMBDA		

In the Security Login Screen, enter the Username and Password you entered in the User Info Screen, Click Log In to open the program.

Verify installation of TypeStream Visual 3.0

1. Open TypeStream Visual application and navigate to About → About TypeStream Visual

🕎 TypeStream™ Visual (IVD in EU only. USA and Canada: For Research Use Only. Not for use in diagno



2. The following window will display



3. If the **version** information **(3.0.0)** is not as shown above, please contact One Lambda Technical Support for assistance.

Licensing TypeStream Visual 3.0

TypeStream Visual 3.0 requires a **new** license key to run the application. A temporary license is provided for the first 11 days of usage, after which the software will cease to function unless a permanent license is obtained. After the permanent license is activated, the software will display a warning message at 30 days before expiration of this license. Your license information for TypeStream Visual is stored in a certificate file.

License Key Activation

Please convert your temporary license into a permanent license as soon as possible to avoid interruption of software operation. To convert your temporary license into a permanent software license, please do the following:

1. After initial installation, when TypeStream Visual starts up, an 11-day license reminder screen will be displayed:

TypeStream Visual
TypeStream Visual
Your temporary license will expire in 4 days. Please activate your license. You need Internet access to do this.
Activate Key:
Licence file: USWHL-2BZ95Y2_TSVPGR_3_Temp.cer Export Import
Submit
Aone lambda 🔹 🔍

- 2. If you do not yet have a license key, you can click Skip to ignore the warning and continue to operate the software; however, please convert your license at the earliest opportunity to avoid interrupted software operation.
- 3. At the reminder screen, type in your Activation key and press **Submit**. Note your activation key can be found on your order confirmation.
- 4. If the activation of your license fails by using the Activate Key facility, proceed with the rest of these steps.
- 5. Export your certificate file to disk using the Export link. The Export for Folder box will appear and allow you to save the certificate file on your computer. Press **OK** when ready to save the file.
- 6. A message will then appear confirming successful saving of the file (not shown).
- 7. On a computer with Internet access, navigate to the **OLI License Renewal website** and do the following:
 - a. In a web browser, go to https://forms.onelambda.com/software/activation
 - b. Copy your certificate from Step 4 to a folder on this computer.
 - c. Enter your activation key in the Activation Key box, then click the Choose File button.

d. A Browse window opens. Click on the certificate file you previously saved, then click Open (1). (Your certificate file name and location will vary from examples shown here.)

🜍 Open						x
🕞 🕞 🗢 📕 🕨 License File			▼ 49	Search License File		P
Organize 🔻 New folder						0
🕎 whpdf (P:)	 Name 	^	Date modified	Туре	Size	
gascandoc (R:)		TSVPGR_3_Temp.cer	11/22/2021 10:08 A	AM Security Certificate		2 KB
Control Panel						
DCIM	- < [1]		III			F.
File nam	e:		•	All Files (*.*)		•
Proce	ess photo Upload clipbo	oard image		Open	Cancel	

e. The certificate file will be displayed in grey on the web form shown below. Click the blue Submit button:

	Activate Software	
	Enter your Activation Key and upload Certificate	
P 1000	FC4B	
	TSVPGR-EES 1 Temp cer	Choose File

- f. If the operation was successful, your order information will be updated for TypeStream Visual and your temporary license will be converted into a permanent license.
- g. Click on the Download button to download your certificate with your permanent license.

- h. Copy your certificate file with your permanent license back to that the computer you are attempting to activate TypeStream Visual.
- 8. Startup TypeStream Visual. If the program runs successfully, you are finished with the licensing procedure. Skip Step 9.
- 9. Use the **Import link** on the reminder screen to install the certificate with permanent license that you obtained from the website. A selection box will appear and allow you to choose the certificate file to import into TypeStream Visual. Highlight the file and click Open (1):

TypeStream Vi	sual						
TypeStr	eam	Visual					
Please	e activate	your license. You	need Internet access to	o do this.			
Licer	nce file	8	TSVPGR_3_Temp.cer	Export Imp	ort		
ind Licence file: USWOO-	200RJ12	2_TSVPGR_2.cer)
🔵 🗢 📕 « Users 🕨	THE R. LEWIS CO.		Desktop + License	File		h License File	
Irganize New folde	er.	96. v.	~			H • 🔲	
Favorites	^	Name	~~		Date modified	Туре	10
Lync Recordings		S US	_TSVPGR_3_Te	mp.cer	11/22/2021 10:08	M Security Certificate	
My Documents	ΠI.		1				
My Music			1				
Iracing Computer							
	-	•					
	-	1 7	TSVPGR 2.cer		▼ Cel file	(*.cer)	+
File n	ame:				Concerning and the second seco		
File na	ame:	-			00	an la Cancel	

Once the new certificate file has been selected, it will be displayed in the **License file field**. At this point, click Submit:

Submit	Skip

Uninstalling TypeStream Visual Software 3.0

Please note that the contents of your existing TypeStream Visual database will not be impacted by removal of the TypeStream Visual application. You can continue to use your existing database with any new version of TypeStream Visual that you install. See the TypeStream Visual Release Notes or the Readme file for the most current database upgrade information.

(Optional) Backup your TypeStream Visual Database

- Within the Database Utility window, click the Database Tasks > Backup Database option.
- From the Database Name drop-down list, select a database.
- Click the Browse Button in next to the Destination field. This brings up a new window where you can select a destination folder for the database backup.

Browse For Folder	X
Please select Destination Directory	
🖌 🖉 OLI TSV	^
🖌 🥼 data	
📗 AppData	
b 🍑 catalog	=
export	
📔 report	
> 🌗 session	
🔺 鷆 temp	
D 퉲 SBT	
🛛 🖉 rpt	-
<	Þ
Make New Folder OK	Cancel

Note: The location you select for the database backup must be somewhere on your local hard drive. You cannot store it on your desktop, in your My Documents directory, or on a network directory.

- 4. Indicate a database Backup File Name in the Backup File field. The backed up files are stored with a backup (.bak) file extension.
- 5. Click the Backup button. After backup, the following message is displayed.

6. Click the OK button. The database is saved as a backup file in the location you specified.

Uninstalling the TypeStream Visual Software

From the Control Panel, open the Programs and Features section and select Uninstall or change a program. Right click on TSV 3.0 (1) and then select Uninstall (2):

ō	Programs and Features					- 0	×
~	Control Pa	anel > All Control Panel Items > Programs and Features		~ Č		Programs and Features	
	Control Panel Home	Uninstall or change a program					
	View installed updates	To uninstall a program, select it from the list and the	n click Uninstall, Change, or Repair.				
	off	Organize 🔻 Uninstall Repair					0
	network	Name	Publisher	Installed On	Size	Version	^
		Zoom	Zoom Video Communications,	11/10/2020	9.76 MB	5.2.3 (45120.0906)	
		WalkMe Internet Explorer ATL Extension (64 bit)	WalkMe LTD.	4/21/2020	1.88 MB	2.2.38.0	
		TSV 3.0	ambda Inc.	11/9/2021	174 MB	3.0.0.27232	
		(A) TreeSize Free V4.4.1	Software	1/17/2020	10.6 MB	4.4.1	
		1.13.1.28686 (64 bi	seSVN	2/20/2020	55.7 MB	1.13.28686	
		Operation of the second sec	Symantec	12/11/2020	11.8 MB	6.2.1	
		🍜 Snagit 2020	TechSmith Corporation	9/20/2021	1.05 GB	20.1.6.11106	
		SCCM Image Info	Thermo Fisher Scientific	11/11/2020		10	~
		One Lambda Inc. Product version: 3.0.0. Help link: http:/	27232 Support link: h //www.OneLamb Size: 1	ttp://www.One 74 MB	Lambdalnccor	n	

Note: If the Remove Button is not displayed, contact your system administrator - you may not have the necessary privilege level to uninstall software programs.

After uninstalling the program, verify that the program folder has been removed from C:\Program Files (x86)\One Lambda\TSV 3.0

If not, delete the appropriate sub-folder from the TSV folder.

EUROPEAN AUTHORIZED REPRESENTATIVE

EC REP MDSS GmbH, Schiffgraben 41, 30175, Hannover, Germany

REVISION HISTORY

Revision	Date	Revision Description
01	Current	Initial Release

Appendix A

Checklist for Installation Configuration

Note: If you've read this appendix and find you still need installation assistance, please contact One Lambda technical support. (<u>1lambda-techsupport@thermofisher.com</u>).

The sections in this appendix list the key steps you should follow when installing TypeStream Visual in the described configurations. They are based on the processes for the installation type you choose and reflect certain steps that are important to follow for each one.

Server/Standalone Configurations

Follow the installation process for a <u>Server</u> if your computer is storing the TypeStream Visual Database and Database Utility and the other computers on the network, (the clients) will be accessing your computer to use the TypeStream Visual software application. If your computer is the only computer storing and accessing the TypeStream Visual application and the TypeStream Visual Database and Database Utility are also installed on your computer, follow the installation process for a Standalone configuration.

Server/Standalone Installation Checklist

Follow the installation process for a <u>Server</u> if your computer is storing the TypeStream Visual Database and Database Utility

- ✓ If you are accessing a central SQL Server, make sure it is set up to receive remote connections.
- ✓ Make certain to install SQL Server and the .NET Framework, if prompted to do so.
- ✓ Follow all the prompts for installing TypeStream Visual, including accepting the license agreement, until the installation is complete.
- ✓ Open the TypeStream Visual Database Utility (TSV DB Utility), making sure to select the Server/Standalone Install for *Install Type*.
- ✓ Connect to a local SQL Server, or a SQL server on the network to which you have access.
- ✓ Connect to an existing database on the SQL server you selected in the previous step or create a new database on that SQL server.
- ✓ Set up your user and lab profiles.