

Lattice Technology

New Product Feature Highlights

October 2012 Product Release

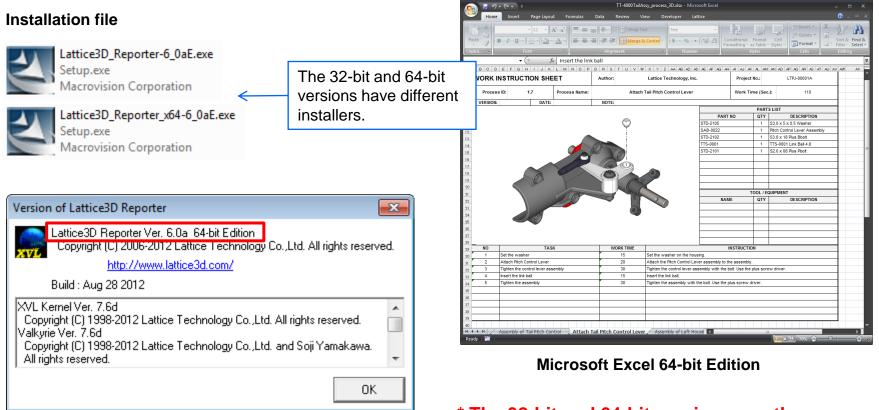


Lattice3D Reporter Ver. 6.0a

[R-1] Native 64-bit Support



Description: Support Microsoft Excel 64-bit edition.



* The 32-bit and 64-bit versions use the same license files.



Description: You can check if the XVL file is viewable in iXVL Player.

<u>Menu:</u> Right click menu: [File] > [Properties]



You can check if the XVL file is viewable in iXVL Player.

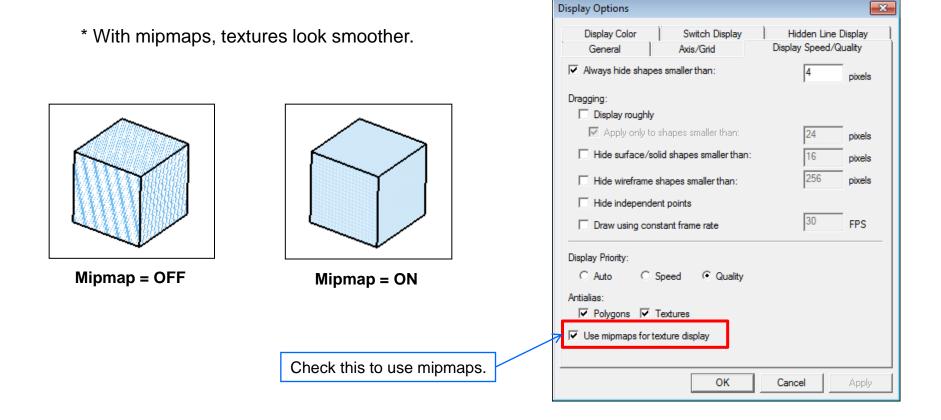
Properties			, • 🔀
General Cu	stom		
File Path:	C:\Users\Masaru.LA	TTICE3D	Documents\\
Total Size:	5,489,803 Bytes		
Туре:	V-XVL [10] (U-XVL)		
Conversion Tolerance:	0.1		
Copyright			
Copyright:			
Creation Da	ate: -		
Expiration Date:			
Encryption Type:	Unencrypted		Details
- This file is vi	ewable in XVL Player.		Details
		Set	Close

[R-3] Mipmap Support



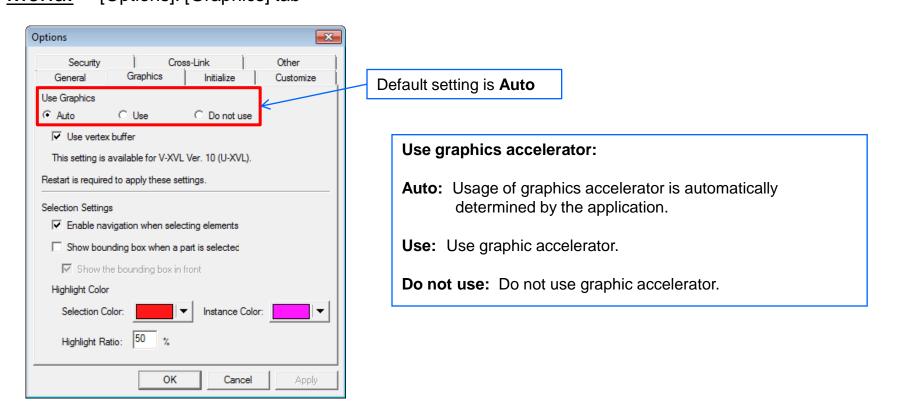
Description: Can use mipmaps for better texture display.

<u>Menu:</u> Right click menu: [View] > [Display Options] > Display Speed/Quality tab





<u>Description</u>: Usage of the graphics accelerator can be automatically determined by the application. <u>Menu</u>: [Options]: [Graphics] tab





Description: Includes several illustration display enhancements.

<u>Menu:</u> Right click menu: [View] > [Display Options] > Hidden Line Display

	🗗 🗗 🔸 🔝 👻 [Color set]	• • • 🖳
	🗇 Hidden Line	
	☐ Illustration	Display Options
Can select hidden line or illustration line mode from the Display Toolbar.		General Axis/Grid Display Speed/Quality Display Color Switch Display Hidden Line Display Path Type:
		C Hidden line 📀 Illustration C All lines
	Allows parts to be displayed as shaded in illustration mode.	✓ Enable shaded image display on hidden line images Path Style: Independent 3 Edge: 3
		Surface Line: 3 pixels Concave-Convex 1 pixels Maximum Extraction Angle of Concave-Convex Edge:
		Concave Edge: 135 deg.
		Convex Edge: 135 deg.
	Specifies the smooth edge extraction coefficient	Extract smooth edges as concave or convex Extraction Coefficient (1 - 100):
Illustration view with shaded parts	for the illustration view.	OK Cancel Apply

Illustration view with shaded parts

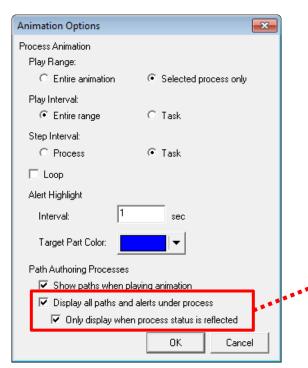
October 2012

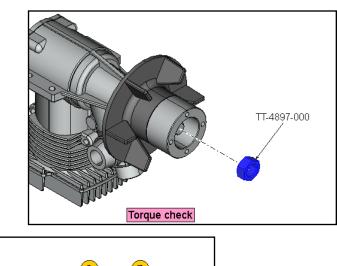
[R-6] Process Animation Enhancements

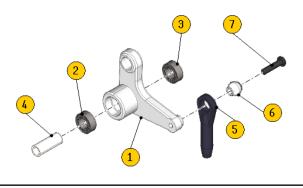


Description: Process animation supports more features and objects.

- Supports Manufacture Tree.
- Supports multiple text alerts in a single task.
- Displays text alert leader lines.
- Simultaneously display all paths and alerts in single process.
- Process part is now called "task".







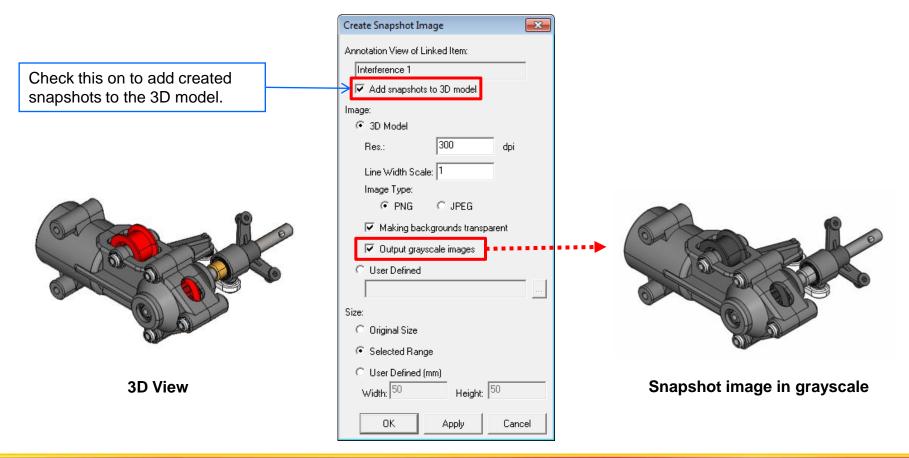
All animation trace lines and text alerts in the selected process are displayed together. This enables exploded part views to be displayed as shown.

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<u>Description:</u> Can create grayscale snapshots. When creating a snapshot with Lattice3D Reporter, can specify whether or not to add that snapshot to the 3D model.

Menu: [Create/Update Snapshot Image]





Description: The following start-up parameters have been added.

Parameter	Description
VIEW_DIRECTION_TYPE	Specifies the initial view direction.
VIEW_QUALITY_LOD	Specifies whether to perform LOD display.
VIEW_QUALITY_LOD_TYPE	Specifies the display accuracy of the initial view when LOD is enabled.
SYSTEM_RESET_TYPE	Allows specification of targets to be initialized upon troubleshooting.
VIEW_MIPMAP_TEXTURE	Specifies whether to use mipmaps for texture display.
VIEW_OBJECT_DRAW_ORDER	Specifies whether to draw shapes in the same order as that of the assembly tree.
VIEW_LINE_LUMINANCE_LIMIT	Specifies the reference value for adjusting the colors of letters and lines when the background color is close to black or white.
VIEW_RENDERING_TIME	Specifies the interval between each drawing process.
VIEW_ACCELERATE	Specifies whether to use hardware acceleration.
VIEW_CURVE_BUFFER_OBJECT	Specifies whether to use vertex buffer objects of edges for hardware acceleration.
VIEW_SURFACE_INDEX_BUFFER_ OBJECT	Specifies whether to use vertex buffer objects of face indices for hardware acceleration.

*See "Lattice3D Reporter Start-Up Options Manual" for more detail.



Template Enhancement



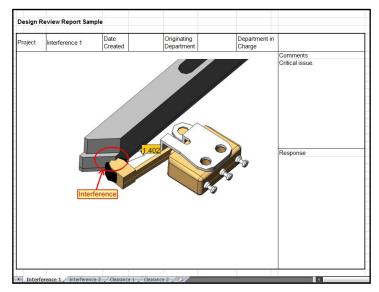
<u>Description</u>: The following new sample templates are included in the installation package.

Location: <Installation directory>\Template

	STRUCTION SH	IEET	Author: Lattice	Fechnolog	y, Inc.	Project No.:	LTPJ-00001A			
Process II	1.4 Process Name: Assembly of Tail Pitch Control Work				Work Time (Sec.):	75				
VERSION:	DA	TE:	NOTE:							
No.	PART No.	6	Description	QTY	1	Instruction				
1 П	T-3219	1TT-3219 Tail Pitch Con		1	1 Set the control sider.	Instruction				
1 TT 2 ST	T-3219 TD-2109	S6 x 10 x 3 Bearing		1	Firmly insert the bearing to the	Instruction				
1 TT 2 ST	T-3219			1		Instruction				
1 TT 2 ST 3 ST	T-3219 TD-2109	S6 x 10 x 3 Bearing	trol Silder	1	Firmly insert the bearing to the	Instruction control sider. side of the control sider.				
1 TT 2 ST 3 ST 4 TT	T-3219 TD-2109 TD-2109	S6 x 10 x 3 Bearing S6 x 10 x 3 Bearing	trol Silder	1 1 1	Firmly insert the bearing to the Insert the bearing to the other	Instruction control sider. side of the control sider. g to the assembly.				
1 TT 2 ST 3 ST 4 TT	T-3219 TD-2109 TD-2109 T-3220	S6 x 10 x 3 Bearing S6 x 10 x 3 Bearing TT-3220 Tail Pitch Con	trol Silder	1 1 1	Firmly insert the bearing to the Insert the bearing to the other Insert the control slide bushing	Instruction control sider. side of the control sider. g to the assembly.				

2D Work Instructions (2DWorkInstruction.xls)

This template publishes an exploded part view and a list of tasks for each process.

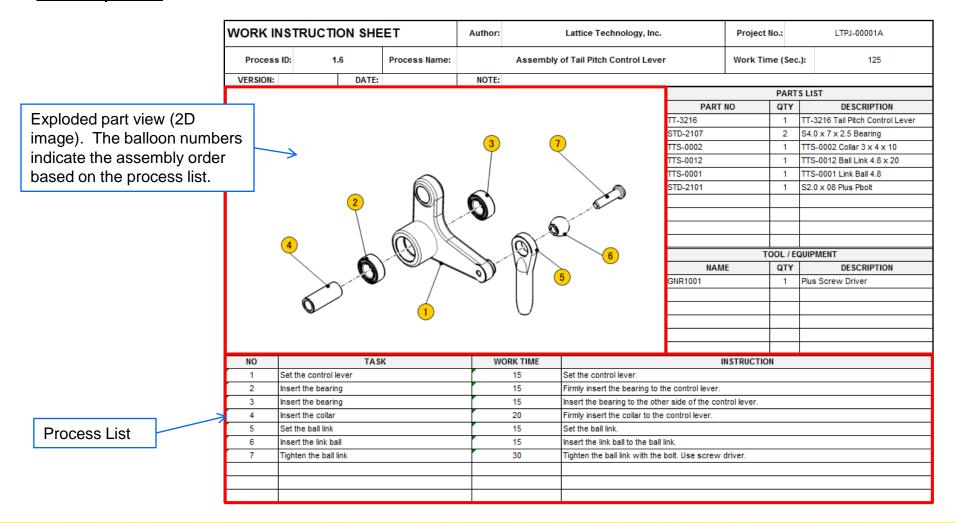


Annotation View (DR.xls)

This template publishes a snapshot image and the comments for each annotation view.



Description: Can publish a process as an exploded parts view and a process list.





Description: You can publish the parts list of the current process.

WORK INSTRUCTION SHEET		Author: Lattice Technology, Inc.			Project N	lo.:	LTPJ-00001A		
Process ID: 1.7 Process Name:			Attach Tail Pitch Control Lever			Work Tim	ne (Sec.	Sec.): 110	
VERSION:	DATE:		NOTE:						
-							PARTS	S LIST	
					PART	NO	QTY	DESCRIPTION	
			. •		STD-2105		1	S3.0 x 5 x 0.5 Washer	
		1	ר אין		SAB-0022		1	Pitch Control Lever Assembly	
			ල		STD-2102		1	S3.0 x 18 Plus Bbolt	
					TTS-0001		1	TTS-0001 Link Ball 4.8	
			57		STD-2101		1	S2.0 x 08 Plus Pbolt	
		T	Ţ						
		-	-						
		٩	> 1	1					
		1 pr	Ton			т	OOL / EQ	DUIPMENT	
	-				NAM	n 🔿 1.7 A	Attach	Tail Pitch Control Lever	
	L. H				GNR1001	<u>+</u> 1	.7:1 Se	et the washer	
		There						0-2105	
								ttach Pitch Control Lever	
	Ma	15						3-0022	
								ghten the control lever assemb	
							_	0-2102	
			/	1		<u> </u>	7:4 In	sert the link ball	
	The pro	ocess parts li	st shows the parts,			····· 6	🖞 TTS	5-0001	
		•	nufacture assemblies			⊟…\√ 1	.7:5 Ti	ghten the assembly	
						· · · ·)-2101	
	or the p	process.					511	/ 11/1	

Process Tree (XVL Studio)

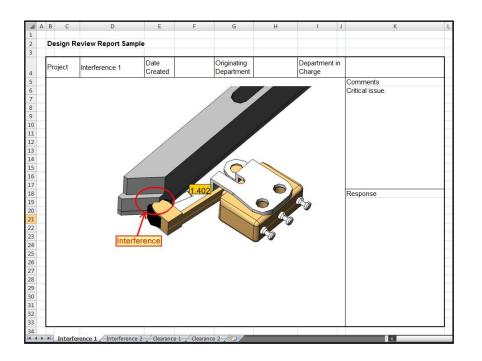


Description: You can show the tools and equipment used in the process.

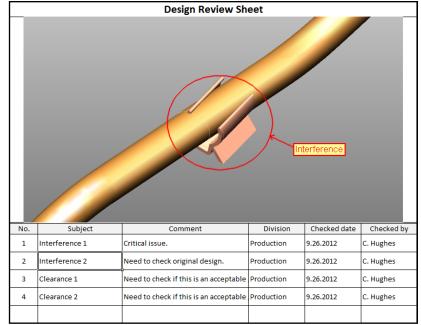
WORK INSTRUCTION SHEET			Author: Lattice Technology, Inc.			Project No	o.:	LTC00031	
Process ID: 1.1 Process Name:			OP010			Work Time	e (Sec.)	: 320	
VERSION:	D	ATE:	NOTE:						
			8				PARTS LIST		
		\frown	Æ		PART NO		QTY	DESCRIPTION	
					324-5675-038			Clutch Outer Basket	
					324-5675-035			nner Basket	
					324-5675-040			Pressure Plate	
			-		324-5675-024			Disks	
					324-5675-007			Clutch Bolt and Washer	
					324-5675-005			Bearing Half	
					324-5675-002		1 /	AP	
		<u> </u>							
		8							
			lan.					UIPMENT	
		S E SE			NAM	-	QTY	DESCRIPTION	
		<u> </u>			GEN-0040			Impact driver	
				7	SOK-0010		1 :	Socket M10	
		WULLING CON	MULUU						
			μ ι						
		th		Equipment list shows and equipment used					



Description: You can publish annotation views in 2D and 3D.



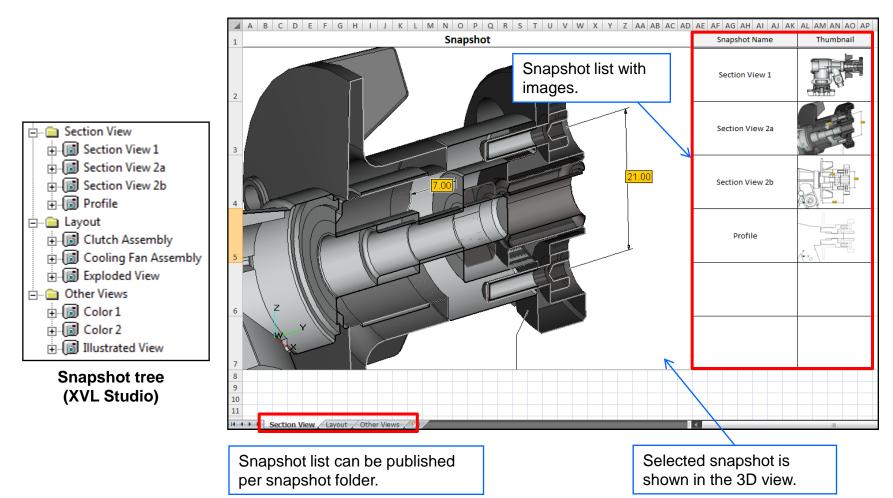
2D annotation view example. Each sheet contains a 2D view and the comments of an annotation view.



3D annotation view example. The table lists the annotation views, and the selected annotation view is shown in the 3D view.



Description: You can publish a snapshot list with thumbnail images.



Lattice Technology, Inc.



Description: You can publish a process list that includes the parts for each task.

WORK I	NSTRUCTION SHE	ET	Author:	Lattice Techn	ology,	inc. F	Project No.:	LTC00031	W	hen multiple parts
Proces	s ID: 1.1	Process Name:		OP010		w	ork Time (Sec.):	320		e included in a task,
VERSION:	DATE:		NOTE:			I				ey are listed on
										ultiple lines.
					7			PART	QTY	
							Outer Bas	ket #1	1	
							Inner Bas	ket	1	
				\sim			Pressure	Plate	1	
							Disks (Det	fault) #1	1	
NO	TASK	wo	RK TIME	PART	QTY		Bolt and W	lasher #1	6	
1.1:1	Set Outer Basket		60			Set Outer Basket of t				
				Outer Basket #1	1					
1.1:2	Attach Inner Clutch Pack		80			Attach Inner Clut In A				
				Inner Basket	1		Bearing Ha	alf #1	2	
				Pressure Plate	1				1	
1.1:3	Insert Bolt and Washer	-	40	Disks (Default) #1	1	Insert bolts and nuts.	AP(KAM)		1	
1.1.9				Bolt and Washer #1	6	moore boild and fiuld.			-	
1.1:4	Tighten bolts		100		-	Tighten bolts using M	110 Impact driver.		-1	
1.1:5	Attach AP Bearing		40			Attach AP Bearing.	-			
				Bearing Half #1	2					
				AP(KAM)	1					

Questions?





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