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## 1 Preface

This Document is intended for Technical, Support or IT engineer.

It concerns new, need to know, features and information concerning Instructor™ 3.0 support.

For other documents, please review below:

- Instructor<sup>™</sup> 3.0 Release notes
- Instructor™ 3.0 Installation Guide

## 2 Operating System

### 2.1 Supported Operating Systems

Instructor<sup>™</sup> 3.0 only supports **Windows 7 32/64 bit** operation system. Instructor<sup>™</sup> 3.0 does not Support Win XP Operating System

## 2.2 64 bit installation

Instructor<sup>™</sup> 3.0 is installed under, **Windows 7 – 64 bit**, as a **32 bit** application.

## 3 Hardware Support

## **3.1 Officially supported Sarin machines:**

Instructor<sup>™</sup> 3.0 supports the following Sarin machines: **DiaScan S+**, **DiaExpert, DiaExpert-Eye**, **DiaMobile XL** and **DiaMension HD**. It is highly recommended for users to only work with these machines.

### 3.2 Unsupported Sarin machines:

Instructor<sup>™</sup> 3.0 does not support the following Sarin machines: **DiaExpert-XL** and **DiaMension (Meteor2)**.

## 3.3 NVidia card – H&A



In order to use the H&A features, the following is a must: NVidia® GeForce GT 430 – 96 CUDA Cores, 1 GB of Memory or higher. Note: Others greater NVidia Cards with equals or more than 96 CUDA Core are supported as well. E.g. NVidia GeForce GT 440 (96 CUDA Core). <u>Also see NVidia Driver support</u>

## 4 Software Support

### 4.1 New Installments

4.1.1 Microsoft Dot.Net 4.5

The Installation will install New Dot Net during Installation – After language Selection when you click on Next following Message appears –



### 4.1.2 Microsoft SQL Server 2012 Express LocalDB

The Installation will install Microsoft SQL Server 2012 Express LocalDB As soon as installation of Dot Net Completed, following message appears -



### 4.3 Drivers

#### 4.3.1 New Hasp Driver Version 6.60

The Installation will install New Hasp Driver 6.60

To See hasp Drive Version -

Computer Management/ Device manager/ Universal Serial Bus Controller / SafenetInc. HASP Key/ Properties / Driver



#### 4.3.2 New UEye driver 4.30

The installation will install new Driver of uEye (in case of uEye camera machines). Driver Version 4.30.

To See hasp Drive Version –

Computer Management/ Device manager/ Universal Serial Bus Controller / uEye UI-154xLE Series / Properties / Driver

Chorde	uEus III 154d E	Sarias
-	ulye or 134xLL	. Jenes
	Driver Provider:	IDS Imaging Development Systems GmbH
	Driver Date:	18-07-2013
	Driver Version:	4.30.12.0
	Digital Signer:	Microsoft Windows Hardware Compatibility Publisher
Driv	ver Details	To view details about the driver files.
Ugda	ate Driver	To update the driver software for this device.
<u>R</u> oll I	Back Driver	If the device fails after updating the driver, roll back to the previously installed driver.
	<u>D</u> isable	Disables the selected device.
<u> </u>	<u>I</u> ninstall	To uninstall the driver (Advanced).
		OK Cancel

#### 4.3.3 New USB to COM Driver

New driver that supports 64 bit OS on the Installation CD, under

### ...\Utils\USB2RS232CABLE\ST-LAB

#### 4.3.4 New Driver to support PCI-e Com port card

PCI-E com port card, on the Installation CD, under ...\Utils\PCI-e Serial Com\Drivers -New driver to support the new" 4-Port Serial PCI-e Adapter".



#### 4.3.5 NVidia Driver support

If NVidia Card Driver is not updated (with recent Drivers),

The Hearts and Arrows button will be disabled and will display the tooltip message below when the mouse is over the button:



#### 4.3.5.1 Check Driver Details:

After updating driver, open Graphic Card's Properties. Driver tab contains Driver Date and Driver Version. Windows should look like following one.

General	Driver	Details	Resources
	NVIDI.	A GeForci	e GT 440
	Driver	Provider:	NVIDIA
	Driver Date:		09/02/2013
	Driver	Version:	9.18.13.1407
	Digital	Signer:	Microsoft Windows Hardware Compatibility Publisher
D	river Detai	ls	To view details about the driver files.
Up	date Drive	r	To update the driver software for this device.
Rol	I Back Dri	ver	If the device fails after updating the driver, roll back to the previously installed driver.
	<u>D</u> isable		Disables the selected device.
	<u>U</u> ninstall		To uninstall the driver (Advanced).

#### 4.3.5.2 Driver Update

Please check for driver updates, see in this path:

http://www.nvidia.com/object/win8-win7-winvista-32bit-314.07-whql-driver.html

In NVidia's website, you will need to fill the details of your graphic card, by click on Search you will know the last driver you need for this card of yours.

tion 1: Manually find d	rivers for my NVIDIA prod	ucts.	
Product Type:	GeForce		
Product Series:	GeForce 400 Series	•	
Product:	GeForce GT 440	•	
Operating System:	Windows 7 32-bit		
Language:	English (US)	-	SEARCH

#### 4.3.5.3 NVidia CUDA cores Checking:

The new generation of NVidia Graphic cards CUDA GPU cores technology.

In order to verify if that card support CUDA Please check in the driver of the card of go in the NVidia website. For example, for NVidia GeForce GT 440 card

http://www.geforce.com/hardware/desktop-gpus/geforce-gt-440-channel/specifications See pic below.

Home	🍦 Drive	rs 🧕 Optimize	Hardware	🞮 Games	💭 Communit
GeForce > Hardware > De:	sktop GPUs GeF	orce GT 440 Specifications			
GeForce GT 440					
Overview		Specifications			
Features					
Specifications		Note: The below specifications rep design Graphics card specification	resent this GPU as incorporat is may vary by Add-in-card m	ed into NVIDIA's reference anufacturer. Please refer	e graphics card to the Add-in-card
Product Images		manufacturers' website for actual s	hipping specifications.		
Desident la fa		GPU Engine Specs:			
Product Into		CUDA Cores	96		
GeForce GT 440		Graphics Clock (MHz)	810 MHz		
1928		Processor Clock Tester(MHz)	1620 MHz		
		Texture Fill Rate (billion/sec)	13.0		

\*Image from NVidia website

## 4.5 License expiration

### 4.5.1 Instructor™ 3.0 license expiration

In case that the license has expired, the user will not be able to access the **Instructor™** application or the **Show Hasp** dialog. In this case, the user will have to access the **Show Hasp** dialog through the **Xcaliber** application –

C:\Program Files\Sarin Technologies\Instructor\Xcaliber\Xcaliber.exe

And send the c2v file.

#### 4.5.2 License warning



The license warning will appear at application start.

If a feature is left with only 30 days until expiration or is already expired, it will appear in this message box.

## 4.7 Xcaliber 2.5

New Xcaliber bears with it a few changes:

### 4.7.1 Histogram's location

The histogram location, on the 'Light calibration' screen, has been moved to the bottomright, as part of the Side-bar dialog:



Note: Some resolutions may damage the view.

#### 4.7.2 Resize Xcaliber's window

From now on, resizing is enabled. The behavior is following the Windows OS conformity:



#### 4.7.3 Crosser's position

When pressing the crosser button (1), the crosser will be centered at the middle of the screen as default:

XCaliber 2.5 - E	e-ML - Lens 3											
Eile Loois Help			0	s .	20		100100	-	"a		1	
	2 ¥				0.	~	9	<b>NA</b>	. 4.	q.	×	
	-									-		
						-						
			6	~								
<u>۽:</u>	C			)) (				1		2		
Pixel X: 791, Y.S	31 - Gray leve	249			-				,	lic X 4987.01	Y 3119.08 C	ur. X: 679, Y: 512

After pressing the crosser button (), you can now easily adjust and determine its position:



- The current location of the Y and X axes is displayed at the left bottom of the main display (as displayed at the screen shot).
- For moving the Y axis of the crosser, Press the left 'Shift' button and move the mouse courser horizontally to the desired location on screen.
- For moving the X axis of the crosser, Press the 'Ctrl' button and move the mouse courser vertically to the desired location on screen.

### 4.7.4 New Rotation indication on the Engine control

To help clarify the direction of the stage rotation, a simple visualization was added to the Engine control 'Left' and 'Right' buttons:



This will help, in a very straightforward way, to press the correct desired directional button.

#### 4.7.6 ROI values panel



'Region of Interest Calibration' screen (in short ROI) is finally displaying the ROI values:

The new panel is visible on the screen's side bar.

### 4.7.7 Color indication for the 'Fix Difference' field

The added indication will mark the field's value in red if the value differs in more than ±20 points:



## 5 Miscellaneous

### **5.1 Migration issues**

### 5.1.1 Instructor 2.6

Instructor<sup>™</sup> 2.6 migration is supported by the Installation. See Installation Guide

### 5.1.2 DiaVision 5.04



DiaVision<sup>™</sup> user are needed to transfer the needed files manually –

### 5.1.2.1 Export files

Export files should be copied from DiaVision's **Export** folder to Instructor™ 3.0 **Export** folder

### 5.1.2.2 Grading data files

Grading data files should be copied from DiaVision's **GradingData** folder to **Instructor™** 3.0 **GradingData** folder

#### 5.1.2.3 User shapes files

User shapes files should be copied from DiaVision's **UserShapes** and **Myshapes** folder to **Instructor™™** 3.0 **UserShapes** folder

#### 5.1.2.4 Reports

Labels, Reports and RecutReports sub-folders, under Diavision's Reports folder, can be copied directly to their counterparts on Instructor<sup>™</sup> 3.0 Reports folder.

#### 5.1.2.5 Views

Views files should be copied from DiaVision's **Views** folder to Instructor™ 3.0 **Reports** subfolder. That is – All **Views** files will reside under the path **…\ProgramData\Sarin Technologies\Instructor\Reports\Reports** 

#### 5.1.3 Transferring Database

5.1.3.1 Transferring stones database from Instructor 2.x/Diavision 5.0x

The only method for moving the stones is to save each of them to a file, load them on Instructor™ 3.0 and save them to database.

5.1.3.2 Transferring database from Instructor 3.x – Fix Data Base permission tool

For transferring the Stones and/or environment settings database from one client to another, there are a couple steps needed to be performed –

- Copy the desired database files under C:\ProgramData\Sarin
   Technologies\Instructor\DataBase to the designated computer (Note: you will
   need override the client's current database so it's best to back up the folder first)
- Go to CD... \Utils\FixDataBasePermissions\ and Run (Double Click) on either FixPermission\_x32.exe, for Windows7-32 bit, or FixPermission\_x64.exe, for Windows7-64bit. This will set the needed permissions for using the copied Databases

### **5.3 Restricted user – permissions concern**

If user have a restricted account (is not an Administrator), he will need to set required permissions –

#### Sarin Technologies inside Programed Data

- 1. Go to C:\ProgramData
- 2. Right click on the Sarin Technologies folder and click on Properties

	퉬 SafeNet Sentinel		27-09-2013 17:39	File folder	
×.	Sarin Technolo Smart Label Pri TEMP TightVNC	<b>Open</b> Open in new window Share with	40 40 004040 00	•	
	U	Scan for threats			
		Add to archive Add to "Sarin Techno Compress and email Compress to "Sarin Te Restore previous versi	logies.rar" echnologies.rar" and er ons	mail	
		Send to			
		Cut Copy			
		Create shortcut Delete Rename			
		Properties			

3. Go to Security Tab and Click on Advance Button -

🐌 Sarin T	echnolog	gies Prope	rties	_		×
General	Sharing	Security	Previous Ver	sions	Customize	
Object	name: (	C:\Program	Data\Sarin Te	chnolo	gies	
Group	or user nar	nes:				
SR CF	REATOR	WNER				
🥵 S1	STEM					
🔋 🕹 🙈 Ac	Iministrator	s (QA-17∖A	dministrators)			
🥵 Us	sers (QA-1	7∖Users)				
To cha	nge permis	sions, click	Edit.		<u>E</u> dit	
Permiss	ions for Cl	REATOR		,		
OWNE	R			Allow	Deny	·
Full o	ontrol					<u> </u>
Modi	fy					
Read	d & execut	e				=
List f	older conte	ents				
Read	1					
Write	•					-
For spe click Ad	cial permis dvanced.	sions or ad	vanced setting	gs.	Advance	be
Leam a	bout acce	ess control a	and permission	s		
		0	к	Cancel		pply

### 4. Press the Change Permission Button

emissior	n entries:			
Туре	Name	Permission	Inherited From	Apply To
Allow	SYSTEM	Full control	C:\ProgramData\	This folder, subfolders and
Allow	Administrators (QA-17\Ad	Full control	C:\ProgramData\	This folder, subfolders and
Allow	CREATOR OWNER	Special	C:\ProgramData\	Subfolders and files only
Allow	Users (QA-17\Users)	Read & execute	C:\ProgramData\	This folder, subfolders and
Allow	Users (QA-17\Users)	Special	C:\ProgramData\	This folder and subfolders
Change	e Permissions	ohiert's narent		

5. Press Add button

🚡 Advanced	d Security Settings for Sarin 1	lechnologies		<u> </u>				
Permissions								
To view or Object nar	r edit details for a permission en me: C:\ProgramData\Sarin`	try, select the entry a Technologies	and then click Edit.					
Permission entries:								
Туре	Name	Permission	Inherited From	Apply To				
Allow	SYSTEM	Full control	C:\ProgramData\	This folder, subfolders a				
Allow Allow Allow	Administrators (QA-17\A CREATOR OWNER Users (OA-17\Users)	Full control Special Read & execute	C:\ProgramData\ C:\ProgramData\ C:\ProgramData\	This folder, subfolders a Subfolders and files only This folder, subfolders a				
Allow	Users (QA-17\Users)	Special	C:\ProgramData\	This folder and subfolders				
Add	<u>E</u> dit	<u>R</u> emove						
Include	e inheritable permissions from th e all child object permissions with	is object's parent h inheritable permissio	ons from this object					
Managing	permission entries							
			ОК	Cancel Apply				

 Write 'Everyone' in the text back, then press 'Check Names' and press ok after the text is underlined-

Select User or Group	? ×
Select this object type:	
User, Group, or Built-in security principal	Object Types
From this location:	
QA90	Locations
Enter the object name to select (examples):	
Everyone	Check Names
	¥
Advanced	OK Cancel

7. Give full control and press ok (just check the top left checkbox)

Permission Entry for Sarin Technolo	gies		×				
Object							
Name: Everyone		<u>C</u> hange					
Apply to: This folder, subfolders and	l files		•				
Bermissiana	Allow	Dony					
Permissions:	Allow	Deny					
Full control	<b>V</b>		Â.				
Traverse folder / execute file	1						
List folder / read data	1						
Read attributes	1						
Read extended attributes	1		=				
Create files / write data	1						
Create folders / append data	1						
Write attributes	1						
Write extended attributes	1						
Delete subfolders and files	1						
Delete	<b>v</b>		-				
Apply these permissions to objects and/or Clear All							
Managing permissions							
	ОК	Car	ncel				

### Sarin technologies in Program Files –

- 1. Go to C:\Program Files
- 2. Right click on the Sarin Technologies folder and click on Properties, After that Steps are same as above. <u>See</u>

### Sarin Technologies in AppData –

- 1. Go to C:\Users\User\AppData\Roaming
- 2. Right click on the Sarin Technologies folder and click on Properties, After that Steps are same as above. <u>See</u>

### **5.4 Accessors**

- 5.4.1 Table Editor
- 5.4.1.1 Adding a user defined Accessor

Instructor<sup>™</sup> 3.0 gives the user the ability to add additional, ready to use, accessors, in addition to the ones displayed on the selected view template. Instructor<sup>™</sup> 3.0 also gives the ability to name the user defined accessors and to add a tooltip that describes them:

To add new accessors:

1. Go to Settings  $\rightarrow$  Table Editor



2. Select The Required Template e.g. - "round" | "GIA2013" | "dual" :



3. Start writing any accessor name in Accessor text filed

Lable:	Acce	essor: GIA2005.stone.weight.crt	-	То
		GIA2005.stone.weight.crt	*	
Lable Accessor	ToolTip	GIA2005.stone.Diameter.min.mm GIA2005.stone.Diameter.max.mm GIA2005.stone.Diameter.avg.mm GIA2005.stone.Diameters.min.mm		

 After selecting an accessor to add, click on the Label field and Write something in the field. e.g. – "My"

Lable:	My	Accessor:	GIA200

5. In addition, write something in the Tool Tip field. e.g. - "Important"

Tool Tip:	Important	Add

6. Click on the Add button The accessor will be added to the User Customization section list below with the added tool tip and label:

	GIA 2005 stope weight crt		
My	GIA2005.stone.Diameter.avg.mm	Important	

7. Go to File (upper Left Corner) and Click on Save:

Sarin Template E	ditor - User Mode	
File	_	
Save		
Exit	GIA 2013 🔹	dual 👻

#### 5.4.1.2 Viewing the user defined accessors on view

The added accessors will be added to the selected templates view, for the selected shapes and institutes (see section 6.3.1.1). Here is how to view them:

- 1. On Instructor, Load a stone of the shape type you've set (e.g. "round")
- 2. Click on the template you've set (e.g. "Table/3D" a.k.a "Dual")
- 3. Select the institute you've set (e.g. "GIA 2013") and Scroll to the bottom of the table
- 4. In this example, You can see the accessor we've added at previous section
  6.3.1.1 :

Girdle Valley %2.580.3Lower Halves Angle °42.20.1My6.444

#### 5.4.1.3 Deleting user defined accessors

Go to Settings / Table Editor and Select The Required Template,
 e.g. – "round" | "GIA2013" | "dual"

Select any accessor that appears under the User Customization section's list, e.g.
 - "My" accessor, and Click the Delete button

#### 5.4.2 Recut Accessors Name convention change

There is a slight change in the Name convention for **Recut accessors**, between Instructor<sup>TM</sup> 2.6 and Instructor<sup>TM</sup> 3.0 – On Instructor<sup>TM</sup> 2.6, Recut accessors were added with the '1' prefix:

[1.GIA2005.Table.width.avg.perc.nr]

On Instructor<sup>™</sup> 3.0, this convention is replacing the '1' prefix with the 'activeplan' prefix:

[activeplan.GIA2005.Table.width.avg.perc.nr]