MH3D NEWS
Software release

New TESA-REFLEX software versions are now available for MH3D, MH3D Recorder and MH3D DUAL systems.

A Firmware version is also available for the TESA-REFLEX DUAL panel.

Available from: 07.10.2014

Next official release date: May 2015

Release details, FAQ

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Available versions

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Four software versions are being released depending on the TESA-REFLEX panel to be upgraded.

software	2.0.12**	2.0.12**	3.1.1**	3.1.1**
Name	TESA-REFLEX MH3D	TESA-REFLEX Recorder	TESA-REFLEX MH3D	TESA-REFLEX Dual
Valid for panels	Embedding a PICOMODULE 3 processor*	All Recorder panels	Embedding a PICOMODULE 7 processor*	All Dual panels
Firmware	1.17	1.09	1.17	Main bootloader: 1.1 Main firmware: 1.04** Motor bootloader: 1.1 Motor firmware: 1.48

*For further information please see following chapter

**New version

Who can perform a panel software/firmware upgrade?

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Software upgrade

A software upgrade can be performed by everyone.
For further information about the upgrade procedure, please refer to this chapter.

Firmware upgrade (For MH3D DUAL panel)

A firmware upgrade can be performed by everyone.
For further information about the upgrade procedure, please refer to this chapter.

Firmware upgrade (For MH3D or MH3D Recorder panel)

A firmware upgrade has to be performed by a TESA approved service engineer or a TESA service team member.

Is it mandatory to upgrade the firmware as well?

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As TESA guarantees only the firmware/software configurations described in this table, it is highly recommended to make sure a panel has been loaded with the latest firmware versions as well.

Where can I download files?

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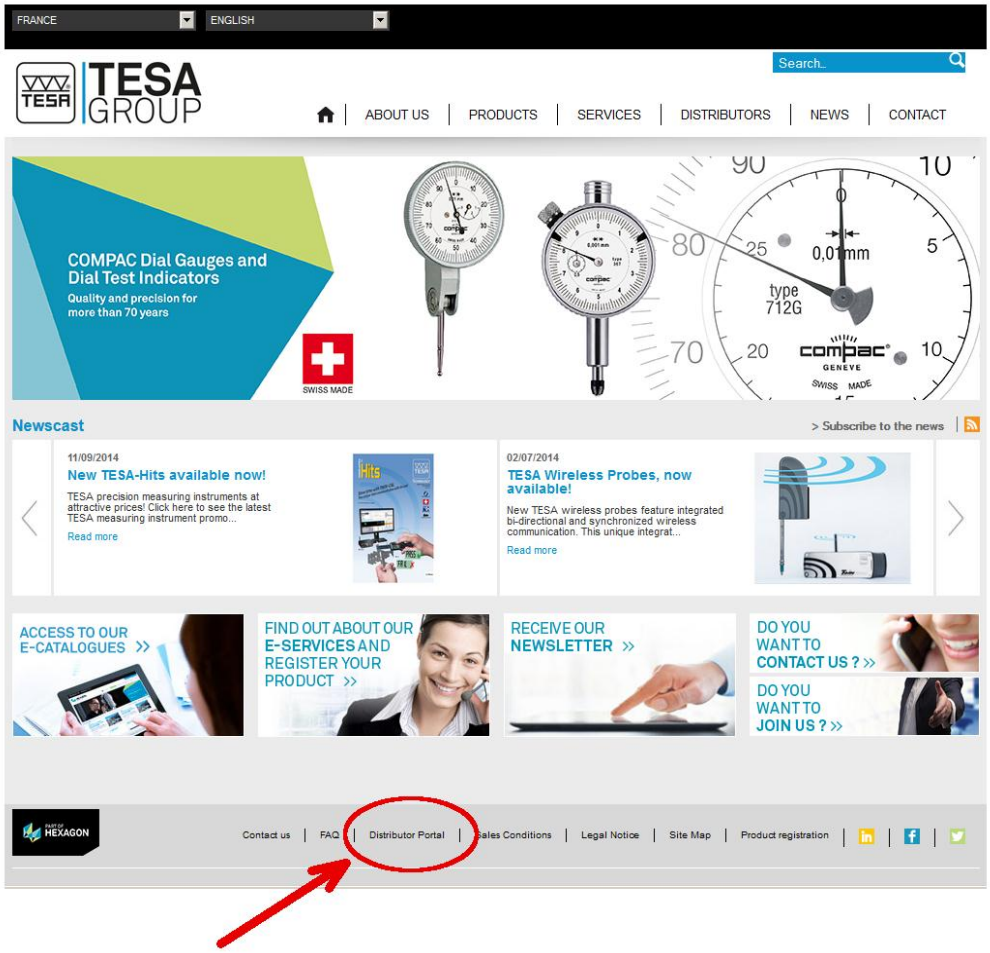
Files are all available from TESA Hemisphere sharepoint. You can either access it in clicking on the link “Distributor Portal” from TESA GROUP website or have direct access using the following link: To Software files.

If you do not have access to the sharepoint, please contact your TESA area manager.



(click on image to access the TESA GROUP website)

PART OF HEXAGON

Changes in 3.1.1 version

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Number	Title and description	MH3D	Dual
2529	**Select probe type makes wrong conversion (inches)** Entering manually and confirming an offset value implied a wrong conversion in inches.	X	X
2525	**Output file with disabled append option** When enabling generic format and disabling append option, the output file was truncated to its five last measures.	X	X
2520	**Output file management** With gagetalker set and disabled append option, the output file was not correctly created at the end of a sequence run.	X	X
2518	**Digitize outline** Digitize outline option was not usable.	X	X
2517	**Logo and part pictures** Using the Send and/or print all marked data button had as effect to create a measurement report including black squares instead of pictures.	X	X
2508	**Help button** A press created crashes when being in different specific software pages.	X	X
2503	**Service Utilities** Tolerances lines (limits) were not displayed correctly in the MH3D software branch: 3+4L/1000	X	
2502	**Writing error in USB stick** From time to time, a data storage file in the USB stick could be corrupted.	X	X
2497 2477	**USB stick** With a non-recognisable or corrupted USB stick, running a sequence caused a panel crash.	X	X
2485	**Plane/Plane parallelism** The distance between envelopes was displayed directly in the tolerance box (instead of beeing next to the arrows (like in a PlaneToLine parallelism relationship).	X	X
2484	**System information page** The page includes now new information about the system.	X	X
2471	**Send to printer command** The command disappeared from the status bar right after having entered a tolerance.	X	X
2467	**USB stick data storage file name** The name (set in system option menu) dedicated for the USB data storage file was not taken into account and DEFAULT was used instead.	X	X
2460	**Service utilities: Send to serial command** The data management system in certification menu was not fully correct and had to be modified (missing values, incorrect format,…).	X	X
2457	**Background color** When editing a tolerance the label background was not transparent.	X	X

2456	**Corrupted *.bmp file** Using a corrupted part or company picture(s) was causing crashes.	X	X
2455	**Image size** A heavy-sized part or company picture was causing a wrong image sampling and resizing process.	X	X
2454	**Traceability info** Changing the traceability info in the pop-up page was not taken into account in the data storage file. Saved values were the ones in the system option menu.	X	X
2449	**Service utilities: Koba measurement** The first steps of the process have been simplified. It is now possible to take 2 non-aligned points with the reference plane.	X	X
2440	**Virtual keyboard characters** Some characters have been removed from the keyboard to avoid software crashes when recalling a program with a name including one of them (ö, ä, &, …).	X	X
2435	**Memory** After several run of a program we could get from time to time a memory failure message.	X	X
2479	**Cone and cylinder** In several situations, a cone or cylinder automatic detection was wrong.	X	X
2463	**Service utilities: linearity process** Results display (graphic) were not correct, values were ok. For manual measurement.	X	X
2444	**C reference** Creating a C reference from the intersection of two perpendicular line was causing a crash.	X	X

PART OF HEXAGON

Changes in 2.0.12 version

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Number	Title and description	MH3D	Rec
2529	**Select probe type makes wrong conversion (inches)** Entering manually and confirming an offset value implied a wrong conversion in inches.	X	X
2525	**Output file with disabled append option** When enabling generic format and disabling append option, the output file was truncated to its five last measures.	X	X
2520	**Output file management** With gagetalker set and disabled append option, the output file was not correctly created at the end of a sequence run.	X	X
2517	**Logo and part pictures** Using the Send and/or print all marked data button had as effect to create a measurement report including black squares instead of pictures.	X	X
2508	**Help button** A press created crashes when being in different specific software pages.	X	X
2502	**Writing error in USB stick** From time to time, a data storage file in the USB stick could be corrupted.	X	X
2497 2477	**USB stick** With a non-recognisable or corrupted USB stick, running a sequence caused a panel crash.	X	X
2485	**Plane/Plane parallelism** The distance between envelopes was displayed directly in the tolerance box (instead of beeing next to the arrows (like in a PlaneToLine parallelism relationship).	X	X
2484	**System information page** The page includes now new information about the system.	X	X
2471	**Send to printer command** The command disappeared from the status bar right after having entered a tolerance.	X	X
2467	**USB stick data storage file name** The name (set in system option menu) dedicated for the USB data storage file was not taken into account and DEFAULT was used instead.	X	X
2456	**Corrupted *.bmp file** Using a corrupted part or company picture(s) was causing crashes.	X	X
2455	**Image size** A heavy-sized part or company picture was causing a wrong image sampling and resizing process.	X	X
2440	**Virtual keyboard characters** Some characters have been removed from the keyboard to avoid software crashes when recalling a program with a name including one of them (ö, ä, &, …).	X	X
2479	**Cone and cylinder**	X	X

	In several situations, a cone or cylinder automatic detection was wrong.		
2444	**C reference** Creating a C reference from the intersection of two perpendicular line was causing a crash.	X	X
2435	**Memory** After several run of a program we could get from time to time a memory failure message.	X	X
2450	**Plane relationship** Making the relationship between two perpendicular planes and then creating the intersection line was giving a duplicated result.	X	X

Which picomodule type do I have in my panel?

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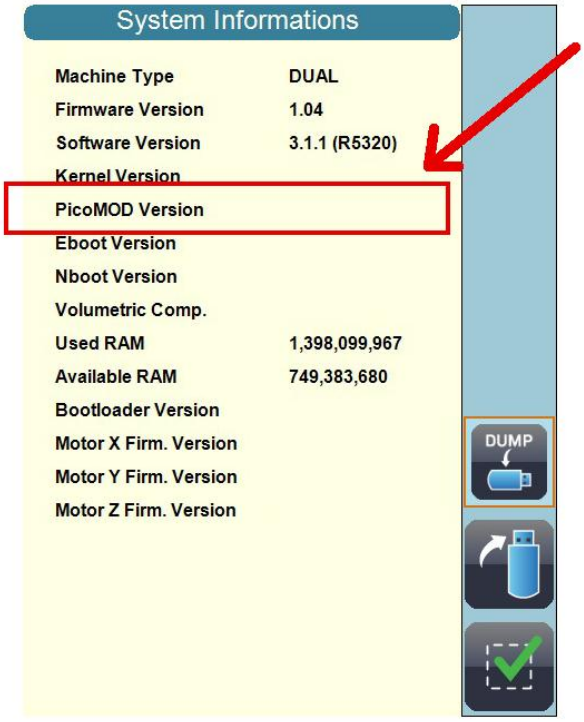
⚠	Checking a picomodule version is from high importance when willing to upgrade a panel software version. Handling the process wrongly may cause an unrecoverable error freezing the panel. The unique solution solving the issue will be to ship the panel back to TESA Swiss factory for resetting.

If you want to see which picomodule version your panel has please refer to the following table.

Step n°	Description
1	Switch the panel on
2	Go to the homing page
3	Enter the service menu Press  or 
4	Enter the System information page Press  or 



Which software version do I have in my panel?

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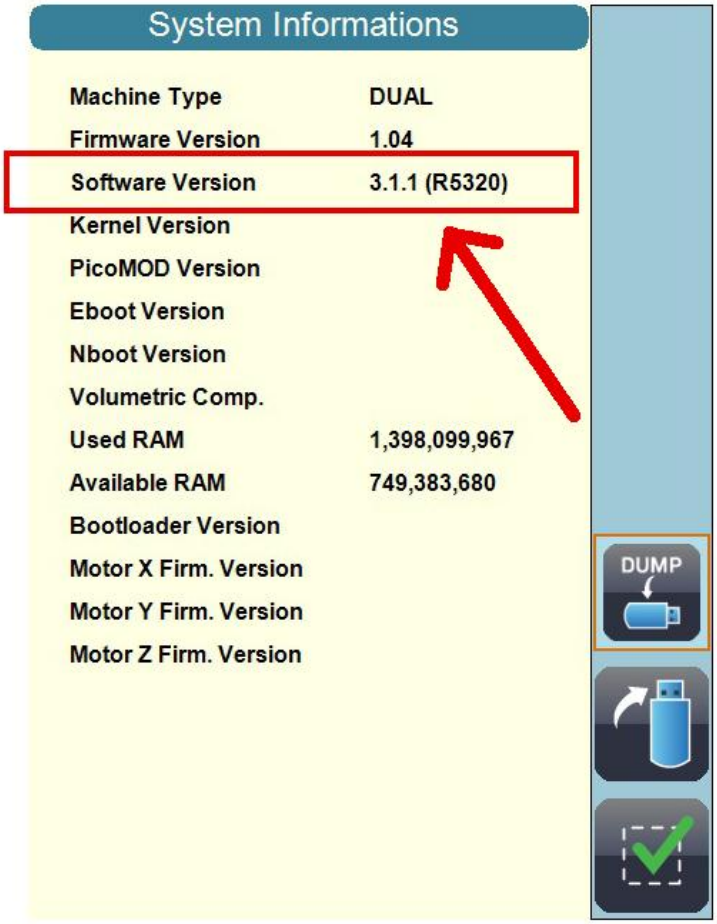
Step n°	Description
1	Switch the panel on
2	Go to the homing page
3	Enter the service menu Press  or 
4	Enter the System information page Press  or 



Which firmware version do I have in my panel?

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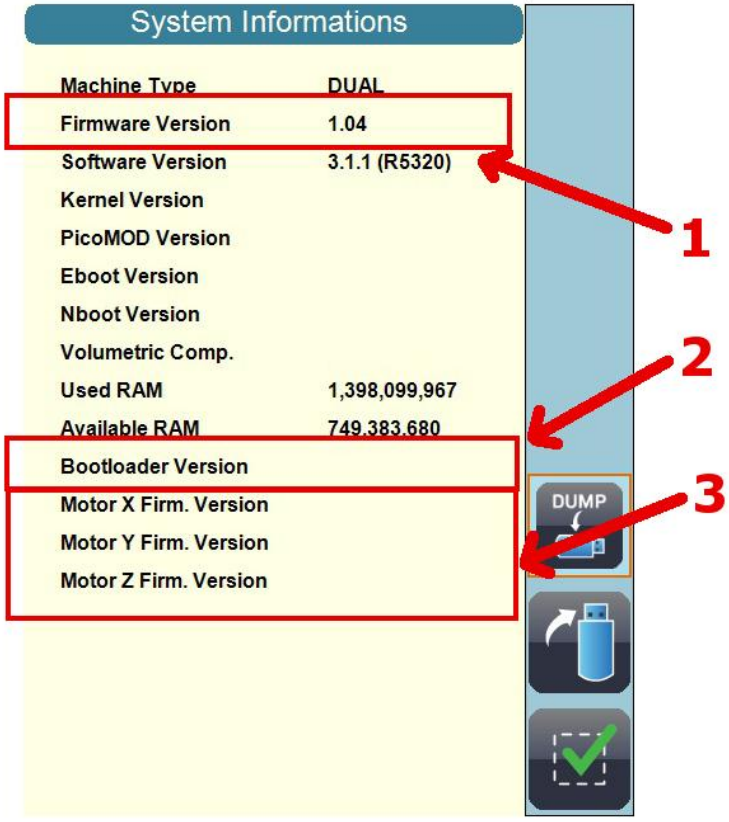
Step n°	Description
1	Switch the panel on
2	Go to the homing page
3	Enter the service menu Press  or 
4	Enter the System information page Press  or 



1. Main firmware
2. Main bootloader
3. Motor firmware

N°2 and 3 do not exist on TESA-REFLEX MH3D or Recorder software versions

How do I upgrade a panel software version?

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If you want to perform a panel software upgrade process and you do not know how to proceed please see the following steps.

Step n°	Description
1	Connect your USB stick to the panel
2	Switch the panel on
3	Go to the homing page
4	Generate a dump file in the USB stick (at root of the stick) Press  or 
5	Send the file to tesa.service@hexagonmetrology.com
6	Get a license number back (from TESA service team). License example: 45B2A32CBC234
6	Download the software file (*.CAB_enc file) using this link: To hemisphere sharepoint
7	Copy the software file at the root of the USB stick. Make sure you have only one *.CAB_enc file at the root of your stick.
8	Switch your panel off
9	Connect you stick to the panel
10	Switch the panel on
11	Wait for the panel to detect the software version you have in you USB stick. If you can see the software loading, this means something went wrong during the process.
12	If the panel recognizes the new version (you should see a black/white page at this stage of the process) It asks you if you want to perform an upgrade. Confirm the upgrade with  or 
13	Enter the license number Confirm the upgrade with  or 
14	The panel is being updated and reboots (switch off and on) automatically.
15	Wait for the language screen to be displayed
16	Reboot the panel manually

How do I upgrade a DUAL panel firmware versions?

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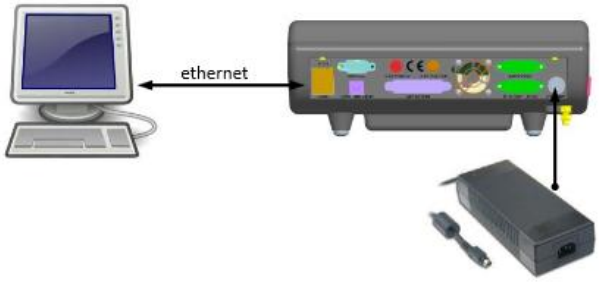
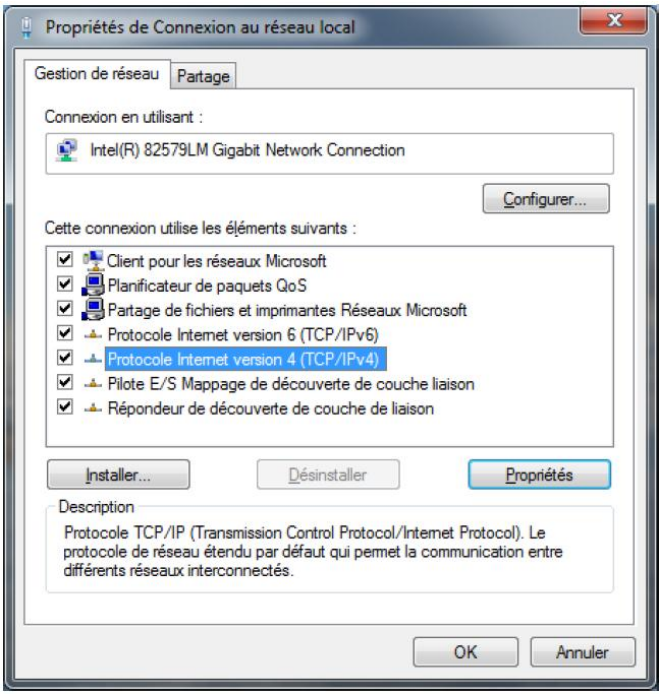
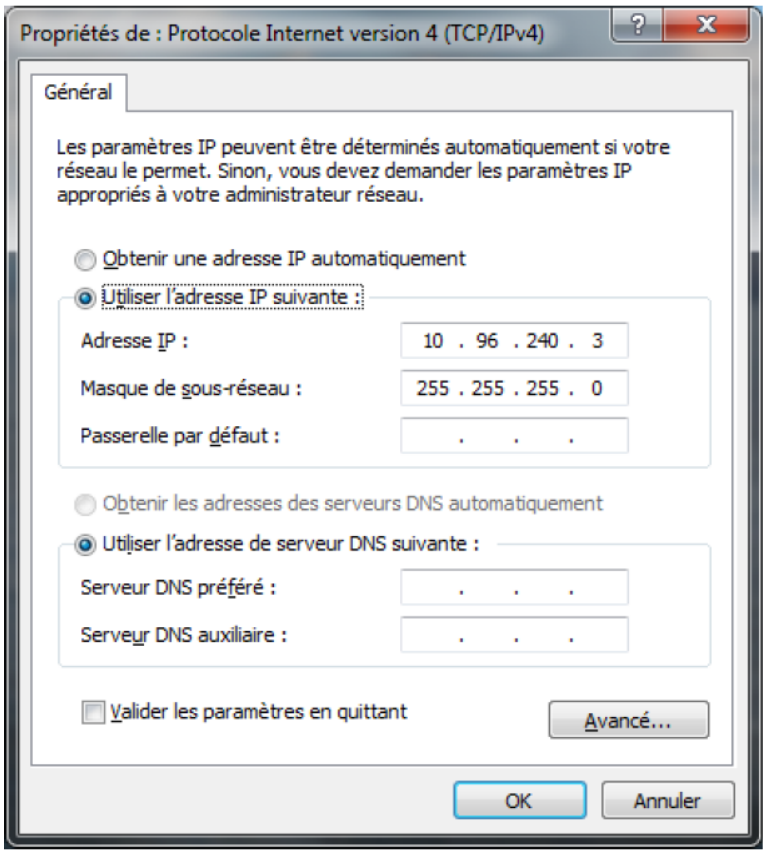
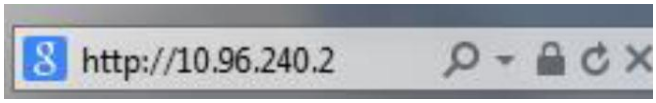
Depending on the status of your system you may have to load different files in your panel. Please follow the next steps.

Step n°	Description
1	Power supply your TESA-REFLEX panel and connect it to your computer through an Ethernet (RJ45) cable. 
2	Configure your computer to access the panel. Start → Control Panel → Network and Sharing Center → Change Adapter Settings → Right Click on appropriate card → properties → TCP/IP Version 4 
3	Select “use following IP adresse” and enter the following info:

	IP address = 10.96.240.3 Subnet mask = 255.255.255.0 
4	Switch the panel on
5	Open internet explorer
6	Enter following address http://10.96.240.2 to connect to the WEB server of the TESA-REFLEX dual PANEL.  A web page should appear.
7	Click on SW/HW update link
8	You have now 6 different choices: • Main firmware update • Motor firmware update • Motor bootloader update • Boostrap update • Config update (do not change anything) • FPGA update (do not change anything) Enter the one you want to update.

9	Browse and select the file you want to load
10	Click update and then OK
11	It will do a check of the file. If it is not correct, it won't let you proceed.
12	The counter will increase until reaching 800 blocks. At the end it will display "Done".
13	Once this is done reboot the panel and double check if the file(s) has (have) correctly been loaded.
14	Restore your initial computer parameters in coming back to the window you had in n°3 and select "get an automatic IP address".