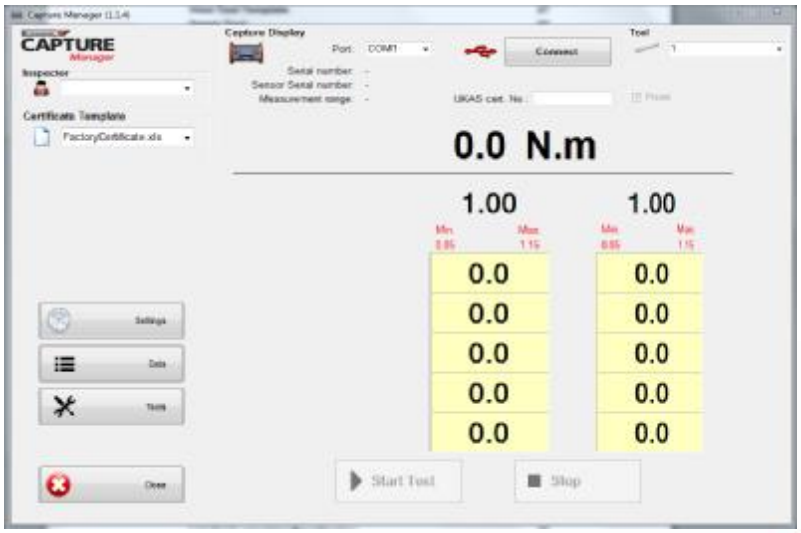
TAKING THE RISK
OUT OF TIGHTENING

How to use your Capture Manager PC Software



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Instruction Part Number P34620 Issue 1

Contents

System Requirements

- PC with USB connection
- Windows XP SP3, Vista or Windows 7
- .net Framework 2.0 (supplied on “Capture Manager” USB flash drive)
- Microsoft Excel for Excel-Export.

Software Specification

- Data transfer between Capture Manager and Capture Display.
- Database of tools – Multi or single point test / Calibrations.
- Database of test / Calibrations.
- Data can be exported to Excel for external analyst, i.e. Statistical Process Control (SPC)
- Torqueleader Standard Certificates – Preset (single point test) or ISO6789 (multi point test)
- Custom Certificates – Certificates can be customised to suit individual requirements.
- Software can be used in various languages (English, German, French, Italian, Spanish, Portuguese, Polish & Russian)

Installing Capture Manager

The software is supplied on a USB flash drive.

Before installing a new version of Capture Manger, all previously installed versions should be un-installed.

⚠Warning back up any previously installed Capture Manager Databases before starting the install process, using the backup function.

1. Plug the USB Flash Drive in to the PC's USB port.
2. Windows Auto Play should appear. If this does not happen please proceed to Window version specific installation.
3. Select "Open the folder to view the files"
4. Select the Capture Manager folder and double click on "Setup.exe".
5. The Capture Manager setup wizard should appear and guide you through the install process. If this window does not appear, then please follow the steps below.

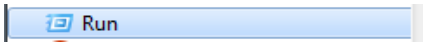
Windows XP

1. Click 

2. Click 

3. Type D:START.EXE , where D is the drive letter of your CD-ROM drive.
4. Click 
.
5. The Capture Manager setup wizard should appear and guide you through the install process

Windows Vista/7

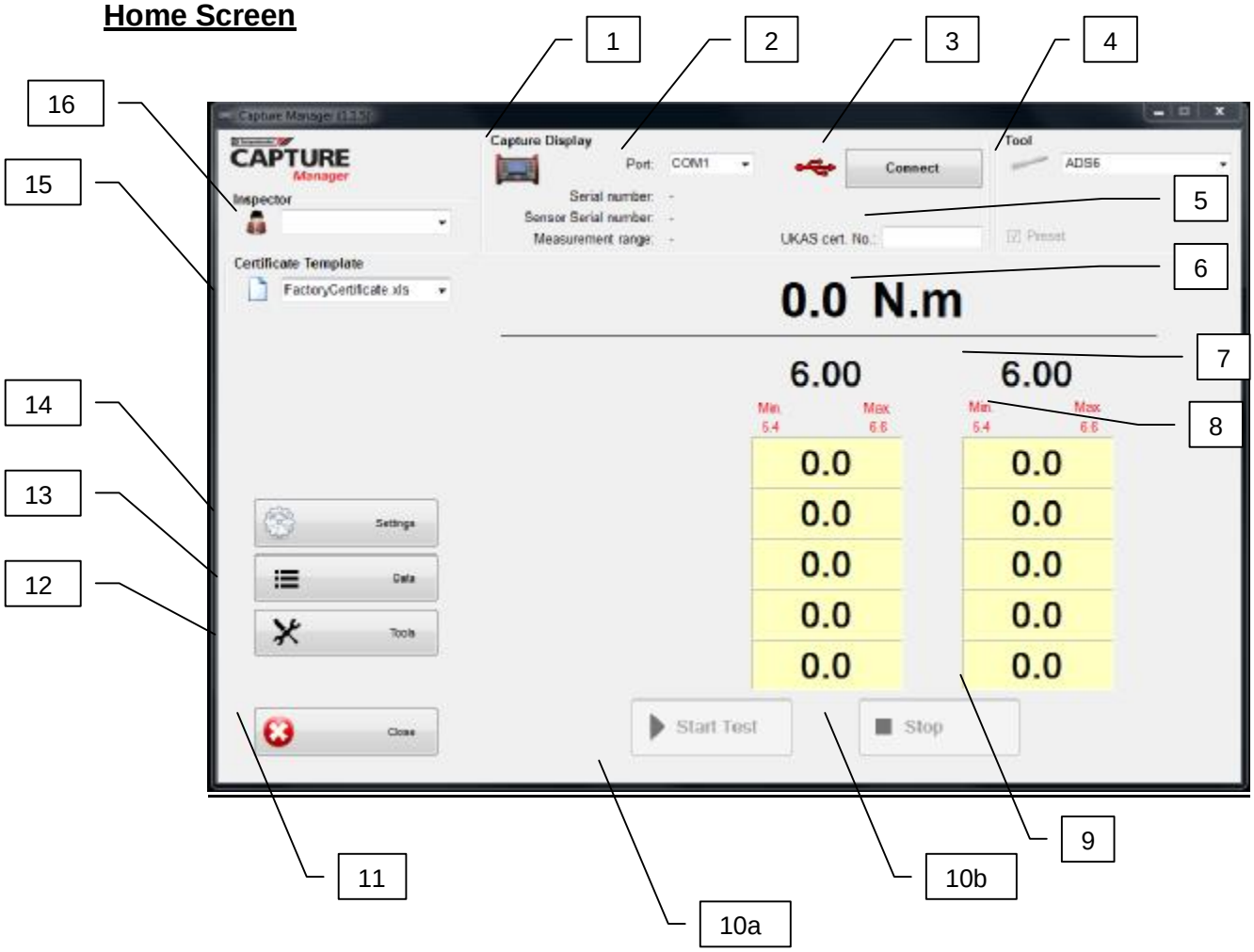
1. Click 
2. Locate and start the 

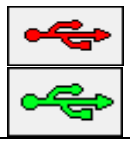
command in the "Accessories" folder in "All Programs"
3. Type D:START.EXE , where D is the drive letter of your CD-ROM drive.
4. Click 
.
5. The Capture Manager setup wizard should appear and guide you through the install process

The Capture Manager instruction manual is located in the Capture Manager folder on the USB Flash Drive (memory stick).

Capture Manager Overview

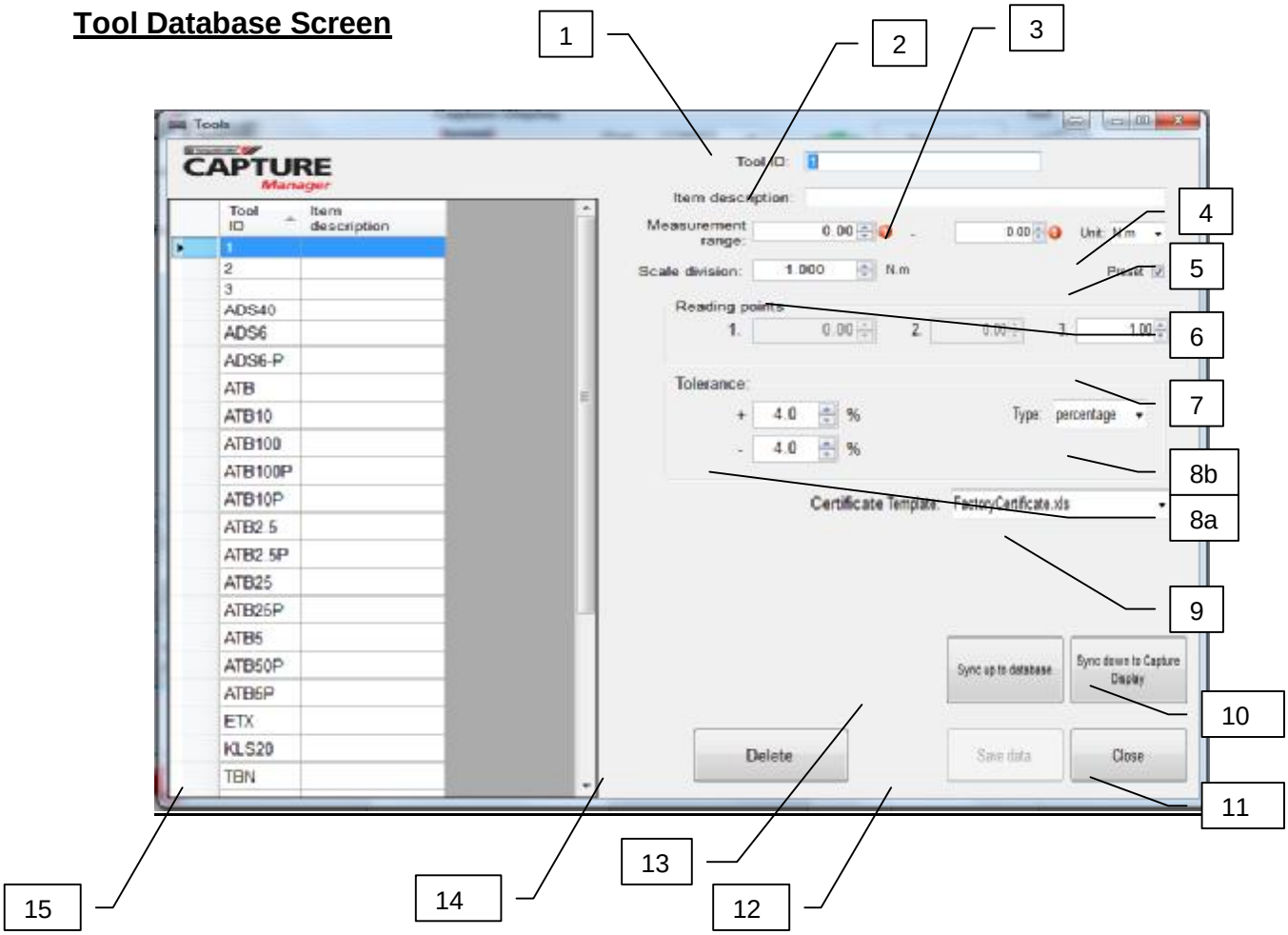
Home Screen



No.	Description
1	Capture Display and Sensor information - When connected the Capture Display serial number, Sensor serial number and measurement range is displayed.
2	Port number - Drop down menu to select the correct “COM” port required for the “USB” (Universal Serial Bus) connection to the Capture Display.
3	Connect – To connect the Capture Display press this button.  - Capture Display Not Connected - Capture Display Connected
4	Tool - Drop down list of tools saved in the tool database. Tools are listed in alphanumerical order.
5	UKAS cert No. - When completing a UKAS cert, a unique certificate number can be entered here which is displayed on the calibration certificate. This field can also be used for other certificate numbering. note. This field does not automatically generate the certificate numbers.
6	Torque Reading - Live Torque reading displayed as torque is applied to the sensor. This is only active when the torque is applied to the sensor.
7	Torque Measurement Point - Target measurement points required for each test are displayed. These target measurement points are tool specific and are setup in the tool database.

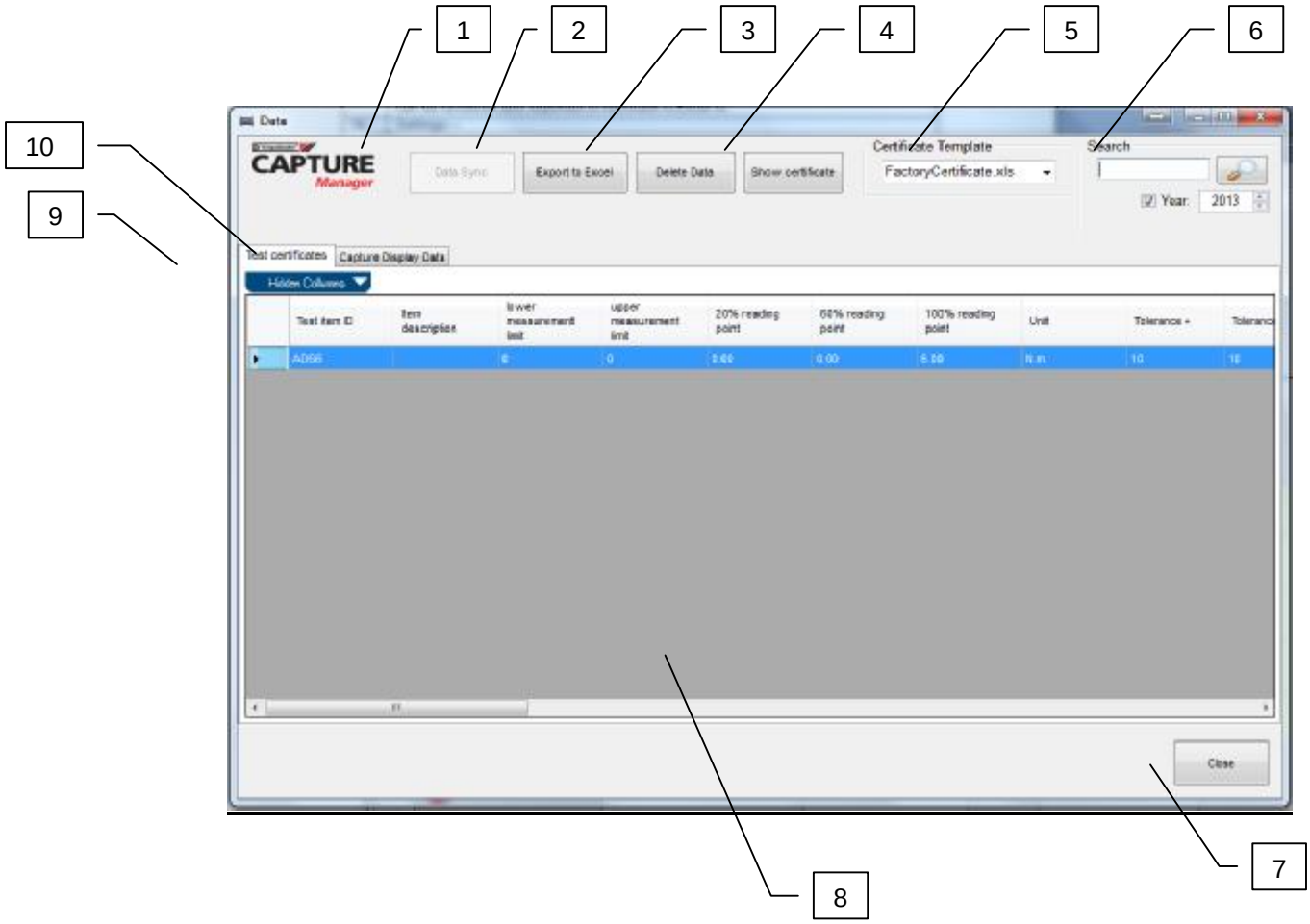
8	Tolerance - Tolerances/limits applied to the tool.
9	Readings - The torque readings are displayed in these windows. Preset testing / Calibration - 10 readings are required which are displayed in two columns of 5 readings. ISO6789 testing / calibration – 5 readings at 3 individual target points.
10a	Start Button – To start a test, press this button and follow the on screen instructions.
10b	Stop Button – To stop a test, press this button.
11	Close – To close the PC program, press this button.
12	Tools Database – List of tools with specified test points, tolerance, certificates
13	Data – Test Certificates (Capture Manager Tests) and Capture Display Test results can be reviewed and exported to Microsoft © Excel ©.
14	Settings – • Database Location, this specified address is where the data from the test results and tools are backed up. This can be either a local or network address. • GUI Languages, drop down list of GUI (General User Interface) languages to suit the users preferred language. • Auto Sync, when selected the Capture Display will back up the stored data readings to Capture Manager. note. For all changes to be implemented, the changes must be saved before closing the settings window.
15	Test Certificates - Certificate templates can be selected from the drop down list.
16	Inspector - The person completing the calibration should enter their initials here or use the drop down window to select.

Tool Database Screen



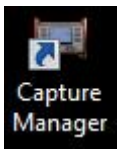
No.	Description
1	Tool ID. – Tool ID can be serial number or customer specific number.
2	Item Description – Text field used to describe the tool for customers reference.
3	Measurement Range – Measurement range of the tool, this includes the lower and upper limits of the tool range. These can be entered manual or by using the increment arrows.
4	Unit – Various units can be selected from the drop down menu.
5	Preset – Select for Preset / Single target tools.
6	Scale Division – Increments of scale on tool
7	Reading Points – Reading points are the defined points for calibration. Preset tool – Single target / reading point is required, 10 individual readings. Non Preset tool – 3 target / reading points are required, 3 sets of 5 readings.
8a	Tolerance – Upper and Lower tolerance of reading points.
8b	Type – Tolerance Type can be either percentage (%) or absolute (-/+).
9	Certificate Template – Certificate template can be pre assigned to tools.
10	Sync Down to Capture Display – Synchronises the selected tools down to the Capture Display. Note, this will over write the tools already in the Capture Display.
11	Close - Closes the tool database and returns to the Main window.
12	Save Data – Saves changes or new tools
13	Sync up to Database – Synchronises the tools stored in Capture Display up to the Capture Manager Database.
14	Delete – Deletes the selected tool or tools.
15	Tool List – Tool stored within the Capture Manager database.

Test/Certificate Database Screen



No.	Description
1	Sync Data - Synchronises the test data stored in Capture Display up to the Capture Manager Database.
2	Export to Excel – The selected data is exported out to Microsoft© Excel©, for external analyst.
3	Delete Data – Deletes the selected Data.
4	Show certificate – Shows the certificate related to the selected tool.
5	Certificate Template – Using the drop down menu the certificate template can be change to suit specific requirements.
6	Search – Allows the user to search the test database screen based on specific info, i.e. inspector, description, date, etc.
7	Close – Closes the tool database and returns to the Main window.
8	Test Data – All test data is displayed in this window.
9	Test Certificate – Test certificates generated by using the Capture Manager program
10	Capture Display Data – Test data which has been synchronises from the Capture Display up to the Capture Manager Database.

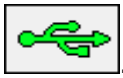
How to start Capture Manager



Start the PC program by double clicking on the “Capture Manager” icon that appears on your desktop after a successful installation of the software.

How to connect your Capture Display

With Capture Manager already started follow the steps below.

1. Connect the Capture Display to the PC using the USB cable supplied.
2. Power up the Capture Display.
3. On the Home screen in Capture Manager, select the com port the Capture Display is connected too using the drop down window.
4. Press the connect button, once connected the  USB button status change to  .

   Note: When connected the serial number of the Capture Display will also be displayed. If a torque sensor is connected the serial number and measurement range will also be displayed.

5. When connected an option to upload the stored test data within Capture Display is present. Accept or decline to continue.

   Note: This option can be switched off in the settings.

Tools

How to add a new tool to the Capture Manager Database

Tools are manually entered in to the Capture Manager Database.

1. Open the Tool Database screen.
2. Enter the Tool ID and at this point the new tool can be saved.
3. Enter a Tool description if required.
4. Enter the Measurement range of the tool; this is the minimum and maximum
    i. torque of the tool as specified by the original equipment manufacture.
5. Select the units of the tool from the drop down window.
6. Select if the tool is a preset tool.
7. Enter your test / reading points.
    - When the tool is a preset tool (know also as a single point reading) only one reading point needs to be entered.
    - When the tool has multi-point readings, the reading points will be displayed in the default settings. (Default settings are 20, 60 & 100% of maximum torque previously entered). These reading points can be changed to suit customer specific requirements.
8. Enter your tolerances
9. Select your tolerance type from the drop down window. The tolerances can either be specified as an absolute (-/+) or as a percentage (%).
10. Select the required certificate for the tool. Capture Manager comes with two templates, Factory Certificate (multi point testing) and Factory Certificate Preset (preset testing). Custom templates can be selected once created as explained in the Certificate section of these instructions.
11. Save the new tool data before closing the tool database screen.

How to start a Tool Calibration.

All tool calibrations take place in the Capture Manager Home screen.

1. Ensure the Capture Display is connected to a sensor.
2. Connect the Capture Display to Capture Manager as previously described.
3. Using the tool selection window, select the test tool by either using the drop down window on the home screen or type the tool ID.
4. When the required tool is selected the tool reading points, tolerance and certificate template are displayed.
5. Enter the inspector's initials in the inspector's window.
6. Click the "Start Test" button and follow the on screen prompts.
7. Once the Calibration is complete the Calibration certificate will be automatically displayed, for both conforming and non-conforming tools.
   Note: When exiting the tool database window, the last saved or modified tool automatically appears in the tool selection drop down window.

How to modify a tool.

All tool calibrations take place in the Capture Manager Home screen.

1. Open the Tool Database screen.
2. Select the tool to be modified from the tool list window.
3. Modify the tool parameters as required.
4. Save the changes by clicking on the "Save Data" button.

Data

Data is stored and reviewed in the Test Certificate/Data window.

The Data is divided in to two separate tabbed windows,

1. "Test Certificates", which is created using Capture Manager &
2. "Capture Display Data", which is uploaded from Capture Display.

Data Sync / Transfer

Test readings stored within the Capture Display can be either transferred automatically or within the Test / Certificate Database window up to Capture Manager. This can only happen in one direction, Capture Display to Capture Manager.

Tools can be transferred in both directions, i.e. Capture Display to Capture Manager or Capture Manager to Capture Display.

Note: When tools are transferred down to Capture Display from Capture Manager the tools stored on the Capture Display are replaced with the selected tools. If a tool with multi point readings is transferred from Capture Manager down to Capture Display the maximum reading point will be used as the single point reading in Capture Display. All other settings will be retained, ie. tolerances.

Capture Display Data Sync

1. Ensure the Capture Display is connected to Capture Manager.
2. Open the Data window from the Home Screen.
3. Click on "Data Snyc" button, the sync bar will appear to show the progress of the task. When complete the data will be displayed in the "Capture Display Data" window.

Note: The data from Capture Display is not deleted during this sync / transfer.

Tool Data Sync from Capture Display to Capture Manager.

1. Ensure the Capture Display is connected to Capture Manager.
2. Open the Data window from the Home Screen.
3. Select the "Sync up to Database" button. The sync bar will appear to show the progress of the task. When completed the tools will appear in the tool database list

Note: Tools synchronised from Capture Display up to Capture Manager are single point / preset tools. These can be change to multipoint reading points but if sync'd down to Capture Display the maximum reading point will be used for the single point target.

Tool Data Sync from Capture Manager to Capture Display.

1. Ensure the Capture Display is connected to Capture Manager.
2. Open the Data window from the Home Screen.
3. Select the tools in the tool list to be transferred to Capture Display, by clicking on the required tool. If multiply tools are required, hold the "Crtl" key down whilst selecting the tools.
4. Select the "Sync down to Capture Display" button. The sync bar will appear to show the progress of the task. When completed the tools will appear in the tool database list.

Note: Tools synchronised from Capture Manager down to Capture Display with multi target points will be transferred as single point / preset tools. The maximum reading point will be used for the single point target.

Exporting Data to Excel

Data can be exported to Microsoft© Excel© for further analyst (SPC, etc.) by following steps below.

1. Open the Data window from the Home Screen.
2. Select the Data lines to be exported. To select multiple Data lines, hold the “Ctrl” key down and select. (Selected lines should be highlighted)
3. Click on the “Export to Excel” button at the top of the Data window. This will automatically display the Data in Microsoft© Excel©.

Deleting Data

1. Open the Data window from the Home Screen.
2. Select the Data lines to be deleted. To select multiple Data lines, hold the “Ctrl” key down and select. (Selected lines should be highlighted)
3. Click on the “Delete Data” button at the top of the Data window.

Searching the Database

The search window located in the top right or the data screen and allows easy access to relevant data.

You can search by typing the tool id, inspector, units, etc.

Calibration Certificates

Capture Manager allows the end user to generate Calibration certificates using the provided "Torqueleader" templates (Factory Certificate & Factory Certificate Preset).

The "Factory certificate" is used for multi point calibrations, ie. Adjustable tools whilst the "Factory Certificate Preset" is used for single point calibrations, ie. Preset tools.

Custom certificates can be created, by modifying the certificates templates provided.

When a calibration is completed within Capture Manager the calibration certificate will be displayed automatically for both conforming and non-conforming tools.

How to view an existing Calibration Certificate

1. Open the Data window from the Home Screen.
2. Select the relevant Data line.
3. Click on the "Show certificate" button at the top of the Data window. The certificate will open and can be saved as a Microsoft© Excel© file or printed.

How to create Calibration Certificate from existing data.

This feature allows the user to take existing data used in a Calibration Certificate and use a different Calibration template to generate a new Calibration Certificate

1. Open the Data window from the Home Screen.
2. Select the relevant Data line.
3. Select the require Calibration Certificate Template. From the Calibration Template drop down window, located at the top of the Data window.
4. Click on the "Show certificate" button at the top of the Data window. The certificate will open and can be saved as a Microsoft© Excel© file or printed.

How to Create Custom Certificates

1. Open Microsoft© Windows© Explorer.
2. Navigate to the storage path for Capture Manager.
   The certificates are located in a separate folder called certificates.

   note. the default path is C:\CaptureManagerData.

3. Open this folder and create a copy of the relevant certificate template
   - Factory Cert (Multipoint calibration)

   or
   - Factory Cert Preset (Single point calibration)
4. Rename the copy of the certificate template.
5. Open the new certificate template by double clicking the file or via Microsoft© Excel©.
6. Once the file is opened, the text fields and logos can be amended as required.
7. When the modifications are complete, save and close the file.

Note: To select the new certificate use the drop down selection window on the home screen or in the Data screen.

Settings

Database Location

This is the location used to store all the data used within Capture Manager.

The default location for this is, C:\CaptureManagerData.

The Database location can be either a local or network location.

Language

Capture Manager can be used in various languages as per the list below.

English,
German,
French,
Italian,
Spanish,
Portuguese,
Polish,
Russian.

To select a language use the drop down selection window.

Auto-Sync

This option allows the Capture Display to automatically upload the stored test data to Capture Manager. The Automatic upload is initiated every time a connection is made between Capture Display and Capture Manager.

To prevent the automatic upload un-check the tick box.

Note. Remember to click on the Save Data button to save the changes.

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