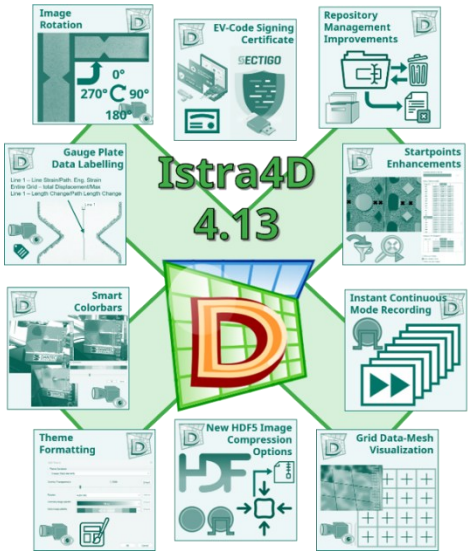
Istra4D V4.13

Release Note

*Dantec Dynamics is excited to announce the launch of **Istra4D V4.13**, featuring 10 valuable new features & functions for the graphical visualization, measurement setup & acquisition, correlation evaluation, and more. Designed to support every type of DIC system, **Istra4D V4.13** represents another step forward in **Istra4D's** evolution, further expanding the capabilities of Digital Image Correlation (DIC) and Point (Marker) Tracking for materials testing, motion, and vibration analysis.*

New features include:

- ***Graphical Visualization***
  1. ***Image Rotation***
  2. ***Smart Colorbars***
  3. ***Gauge Plate Data Labelling***
  4. ***Theme Formatting***
  5. ***Grid Data-Mesh Visualization***
- ***Measurement Acquisition***
  6. ***Instant Continuous Mode Recording***
  7. ***New HDF5 Image Compression Options***
- ***Correlation Evaluation***
  8. ***Startpoint Enhancements***
- ***General***
  9. ***EV-Code Signing Certificate***
  10. ***Repository Management Improvements***



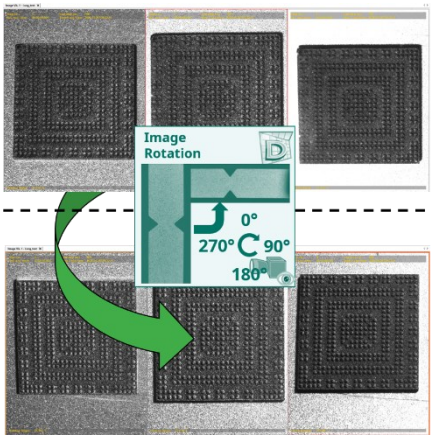
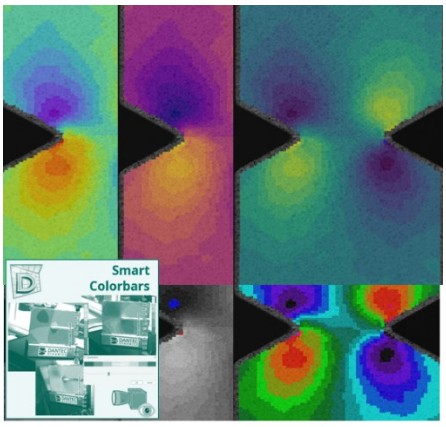
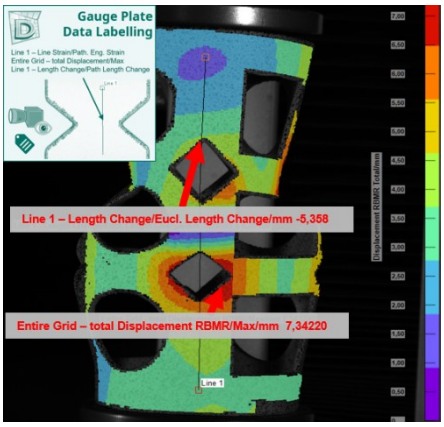


***Image Rotation**, by (clockwise) +90°, +180°, +270° intervals, in each camera view, can now be performed within the "Live Setup Mode", "Live Projection Calibration Mode", "Measurement Series Playback Mode", "Correlation Evaluation", and "Graphical Visualization". The "auto" presented visualization is (by default) inherited from the used settings from the saved acquisition recording.*
*This feature is particularly helpful when using the **EduDIC**, **FlexDIC** and **TestDIC**, which typically require 90° measurements for tensile testing of thin coupons, and also for the **ThermechDIC**, whereby the standard 180° measurement is inverted with respect to the perspective of the user.*

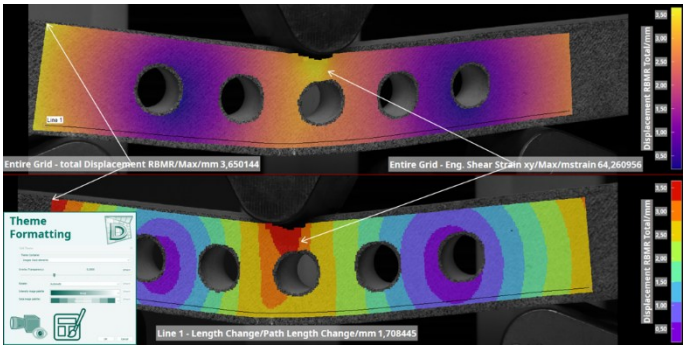
***Smart Colorbars** can now be utilized in the graphical visualization for better and clearer visualization of data. Users can now choose new imaging palettes and quantize the colour bar levels within a selected camera view. Both the new data imaging palettes and quantization of colour bars functions allow users to distinctively and legibly depict measurement data, specifically for better analysis of displacement and strain concentration.*
New data imaging palettes include; gray, gray-min-max, Istra, plasma, and viridis. The color bars of any imaging palette can be selected in 4-, 8-, 16-, 32- quantized bar step levels, for which are added to the data palette list upon selection. This is a very useful feature for all types of DIC measurement systems.

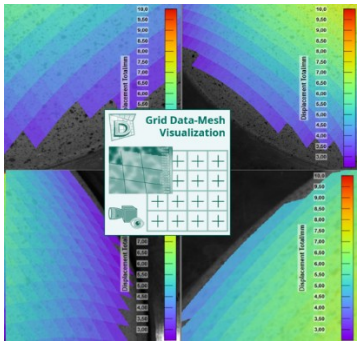




Gauge Plate Data Labelling *is now available that allows users to define any number of plates for which data can be selected for display. Each plate can be assigned a name and relative location within the entire visualization. Thenafter, the plate can be filled with selected data via the gauge entries tree.*
A new capability is that data from the entire correlated grid, irrespective of the visualization selected, can be displayed in any plate with gauge data, together. Another benefit is that the active quantity for the selected graphics visualization display can also be added to a plate. This label entry is as such adaptive, since it will update depending on the selected visualization.

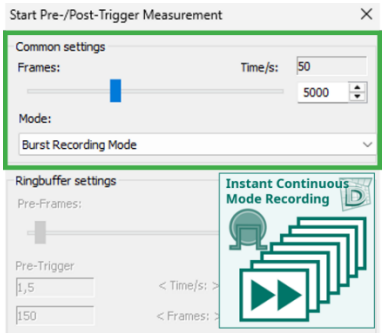
The new ***Theme Formatting*** *options allows all views and elements within Istra4D such as the general UI, plots, camera views, axes, masks, colour bars, markers, and plates to be edited. This gives maximum customization and flexibility for visualization and presentation of measurement results.*

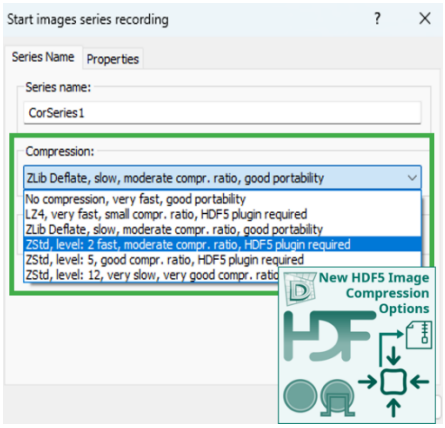




For better visualization of the data shown in a default 2D-overlay, ***Grid Data-Mesh Visualization*** *has been implemented. With this new feature, an equal-sized square sub-grid (of half the data point step size) is placed around each central data point - now making a DIC visualization result appear more like an FEA quad mesh with defined structure, consistency & clarity. Each sub-grid assumes the same value as the central data point. Additionally, the correlated area of data is also slightly extended by half the data point step size.*

In the ***Instant Continuous Mode Recording****, which is called "Burst Recording Mode" in* ***Istra4D V4.13****, users have access to the easiest, automated approach for acquiring images particularly for high-speed (****MSpeedDIC*** *&* ***HSpeedDIC****) testing applications. Users only need to select a frame buffer size and select OK. No pre/post-trigger conditions needs to be set. No recording procedures need to be manually defined.*
Just "Select & Start" → Simple, Quick & Easy.

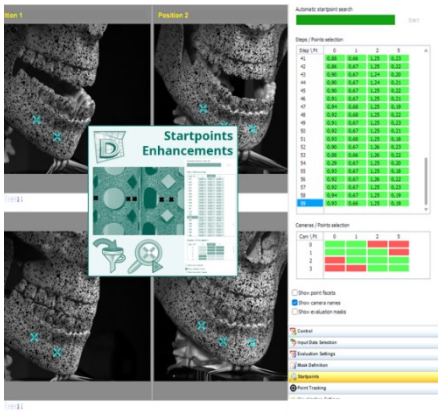




New HDF5 Image Compression Options *for saving (writing) HDF5 datasets for a measurement recording acquisition are now available. For any type of measurement recording acquisition, users can now choose which type of image compression format should be used to save data. For the ringbuffer/instant continuous mode recording, the duration for saving data from RAM to the Harddisk, in particular for the* ***MSpeedDIC*** *&* ***HSpeedDIC****, is now up to x4-x6 faster.*

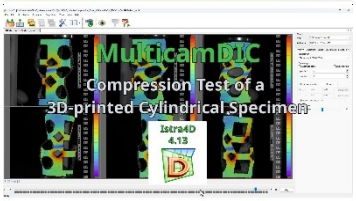
Additionally, when utilizing the automatic recording procedures, in particular for the ***EduDIC****,* ***FlexDIC*** *&* ***TestDIC****, the maximum frame rate with every frame index saved, can also be increased from a nominal max of 4-12 Hz to up to 25-80 Hz.*

In ***Istra4D V4.13****,* ***Startpoint Enhancements*** *have been undertaken for the purpose of clarity, performance and robustness. With the Startpoint Enhancements, the Startpoints User-Interface (UI) is now clearer & easier to use, the search algorithm is more intelligent & faster, and the startpoints process has become iterative. In the 1st upper colour-coded (step) table in the new Startpoints UI, the status of each individual, detected startpoint (column) is clearly shown for each step (row). In the 2nd lower colour-coded (camera) table in the new Startpoints UI, the status of each individual, detected startpoint (column) is clearly shown for each camera (row). Users can now see instantly if a startpoint was found or not found in a given camera for a step.*

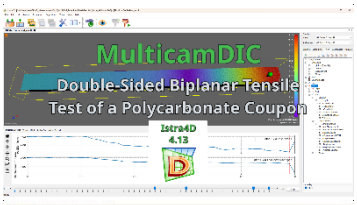


Istra4D V4.13 Release Application Vidoes











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