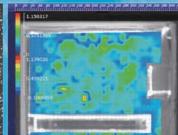
D/1/T/E/C/T

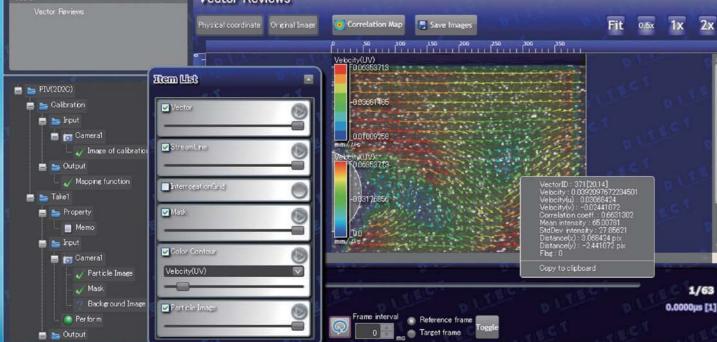
2D Particle Image Velocimetry Software

Flownizer 2D









Flownizer 210

2D2C Particle Image Velocimetry

Flownizer is the fluid measurement software which Ditect Co. developed with emphasis on user-friendliness and processing speed. It has the two measurement methods, PIV and PTV, and the intelligent menu with a tree structure is easy to use.

It is compatible with 64-bit operating systems and SSE2/SSSE3 extension commands, as well as multi-core CPUs for high-speed processing.

The flexible software can be used for many different applications, for example wind tunnel experiments, tank experiments, in engines or air-conditioning, water flow, or blood flow analysis. Physical quantity calculation like vorticity, turbulent energy, Reynolds stress, etc. is included as standard as well as vector calculation, a streamline, streakline, pathline, and a uniform line display.



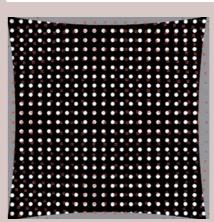
95.00,192.00 / 295.00,192.00

- Standard (direct cross-correlation), Image deformation, and Recursive methods are supported for calculation
- Various functions, such as an ensemble correlation,
 CBC technique, particle mask correlation, correlation average,
 correlation coefficient map
- Intuitive on-screen operation and a tree structure menu

Measurement of two-component velocity vectors in a 2D planar domain based on high image density Particle Image Velocimetry, which tracks small groups of particle.

Calibration

Flownizer2D supports
the grid calibration
method / projective
transformation method
and provides high
accuracy data.
These will correct the
distortion and
transforms XY data in 2D
projection.
A simple two-point
projection conversion is
also supported.



Preprocessing function

Masking function will keep you free from unnecessary areas that will cause error vector.
Preprocessing tools such as background differencing technique, filters

and arithmetic



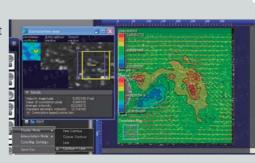
will help you modify bad original images to analyzable images.

Correlation Coefficient Map and Animation Display

Flownizer2D
has an excellent
animation
preview
function for the
correlation
coefficient map
and other
information.

The dialogue

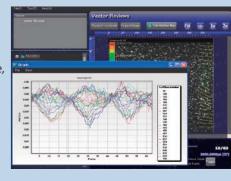
Analysis item



displays interrogation window image, search window image and the color map of correlation coefficient in these two images.

Calculation result

Abounding result items such as Raw vectors, average, angles, stream line, streak line, path line, vorticity, turbulent kinetic energy, Reynolds stress, velocity gradient tensor, standard deviation, velocity



gradient tensor can be visualized.

Specifications

Measuring method PIV / PTV2D2C
Calculation method Standard (direct

Calculation method Standard (direct cross-correlation), Image Deformation, Recursive Correlation-based correction (CBC), Particle Mask correlation method, Correlation average

Preprocessing Filter, Arithmetic, Brightness and contrast, H-dome filter, Inter-image, Mask

Post processing Remove, Replacement, Smoothing

Vector output Resultant (UV), U(x), V(y)

Raw vector, invalid vector, corrected vector, mean vector, instant-mean vector, ensemble correlation,

correlation coefficient, flow lines, vorticity, turbulent kinetic energy, Reynolds stress,

velocity gradient tensor, standard deviation, velocity gradient tensor

Graph display Point, Line, Area (distance/velocity)

Supported image format AVI, WMV(video), BMP, JPEG, TIFF, PNG (sequential still image)

Supported data format binary (di5), CSV

Operating Environment System requirements

Windows Vista-32bit, Windows7, Windows8 / 8. 1, Windows10 (32 or 64bit)

Intel Pentium4 or more processor (Multi-core is recommended)

HD 2GB or more (10 GB or more recommended)
Memory 1GB RAM (3GB or more recommended)

Monitor

The display which supports the resolution of 1024 x 768 or more.

Graphic board

The graphics board corresponding to Shader Model 2.0 is required.



D/1/T/E/C/T

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