

D I T E C T

Digital Image Technology



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**For
Americas**

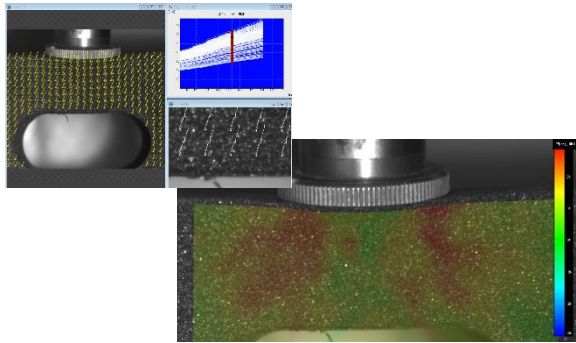
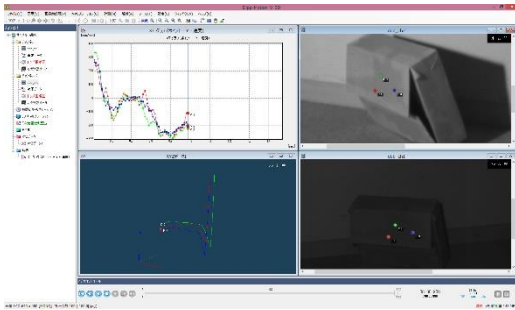
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Please visit our website for more detailed information about Ditect's products. Find all the product descriptions and information about future exhibitions.
You can make a request for more information and other inquiries.

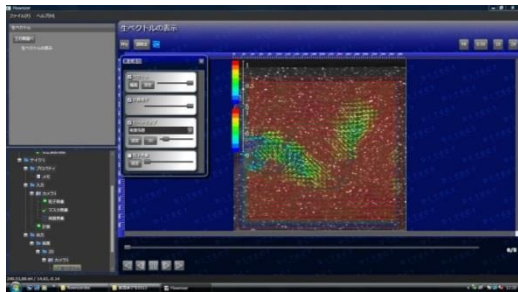
DIRECT Motion Analysis Software



DIPP-Motion V (five)

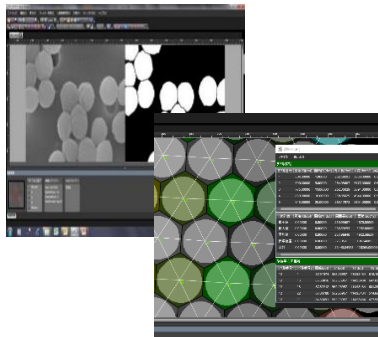
- Available in 2D (X,Y Coordinates), 3D software (X,Y & X,Y,Z Coordinates) or Matrix
- Image input, tracking, calibration & analysis functions in a user friendly GUI
- Normalized cross correlation (pattern match), binarization grayscale
- Binarization HLS, Checker Marker (for Automatic or Modify), Digitize (Manual)
- Unlimited Max tracking points, unlimited Max tracking frames
- Lens distortion correction - Multi-plane correction with Z.Zhang model
- Automotive, bio studies, sports science, physics, manufacturing and more

*If you already have the old version, please ask for the upgrade.



Flownizer

- Available in PIV 2D2C or PIV 2D3C versions utilizing PIV and PTV methods
- Standard (direct cross-correlation), image deformation, recursive calculation methods
- Correlation-based correction, Particle mask correlation method, correlation average
- Analysis items - 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 vector



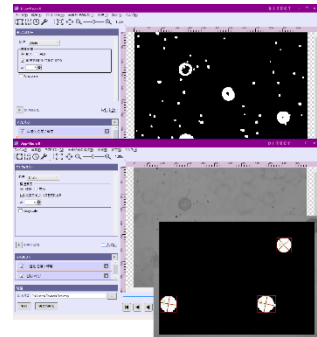
DIPP-Image

Still image analysis software allows you to analyze the total count, dimension, perimeter, longest diameter and feret's diameter of cell and particle, etc.

《New function》 Particle dispersion measurement

DIPP-Macro II

Both video and sequential still images can be processed with the Macro function. With one click, you can easily preview the image before and after the parameter change.

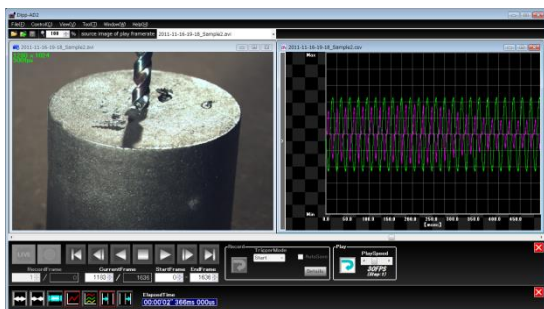


DIPP-AD II

Allows you to synchronize a high speed camera and analog data from other sensors, such as strain gauges, pressure sensors and electromyography.

《New function》 Compatible with HAS-U1 and HAS-U2 Accessible with the data logger (GL900) of GRAPHTEC Corporation. (Can be used with other data logger as well.)

*Stand-alone software and also software combined with GL900 4ch or 8ch are available.



DIRECT High Speed Cameras

※Accessories such as cables and software are included for the package, but camera lens and host PC are optional. Please contact us for more details.

HAS-D71



- 640 x 480 resolution at 8,000 frames/ second
- Available in 12 bit monochrome or bayer color
- Up to 120,000 frames/ second max at 640 x 12 resolution
- Uses C-mount lens - Minimum 1 microsecond exposure time
- USB 3.0 interface to PC / tablet multi-camera with USB 3.0
- Electrical requirement 12V/24W on AC or optional battery
- Size: 73 mm x 118 mm x 187.4 mm, Weight: 1.2 kg (2.65 lbs)
- Available internal memory of 8 GB standard or 16 GB option
- Camera, software, cables, AC adapter, trigger cable included

HAS-D72



- 1,280 x 1,024 resolution at 2,000 frames/ second
- Available in 12 bit monochrome or bayer color
- Up to 16,000 frames/ second max at 1,280 x 116 resolution
- Uses C-mount lens – Minimum 1 micro second exposure time
- USB 3.0 interface to PC / tablet multi-camera with USB 3.0
- Electrical requirement 12V/24W on AC or optional battery
- Size: 73 mm x 118 mm x 187.4 mm, Weight: 1.2 kg (2.65 lbs)
- Available internal memory of 8 GB standard or 16 GB option
- Camera, software, cables, AC adapter, trigger cable included

NEW Release HAS-EF



- 5.2 Megapixel 2560 x 2048 resolution at 250 frames/ second
- 500 frames/ second at full HD and 1,400 frames/ second at VGA
- Up to 14,000 frames/ second max
- Available in 12 bit monochrome or bayer color
- 6 GB Embedded memory
- USB 3.0 interface to PC/ tablet, multi-camera using Int memory
- Uses C-mount lens – Minimum 1 micro second exposure time
- Electrical requirement 12V/12W on AC or optional battery
- Size: 46 mm x 88.5 mm x 127 mm, Weight: 430 grams (15 oz)
- Camera, software and USB 3.0 cables included

HAS-U2



- 5 Megapixel 2592 x 2048 resolution at 100 frames/ second
- 640 x 480 @ 1,000 frames/ second up to 7,500 frames/ second max
- Available in 12 bit monochrome or bayer color
- 2 GB Embedded memory or Direct Memory Access modes
- USB 3.0 interface to PC / tablet, multi-camera using Int memory
- Uses C-mount lens - Minimum 10 micro second exposure time
- Electrical requirement USB Bus power less than 4.5W
- Size: 44 mm x 44 mm x 81 mm, Weight: 210 grams (7.4 oz)
- Camera, software and USB 3.0 cables included

HAS-U1



- 1.3 Megapixel 1280 x 1024 resolution at 200 frames/ second
- 640 x 480 @ 800 frames/ second up to 4,000 frames/ second max
- Available in 12 bit monochrome or bayer color
- 2 GB Embedded memory or Direct Memory Access modes
- USB 3.0 interface to PC/ tablet, multi-camera using Int memory
- Uses C-mount lens - Minimum 10 micro second exposure time
- Electrical requirement USB Bus power less than 4.5W
- Size: 44 mm x 44 mm x 81 mm, Weight: 210 grams (7.4 oz)
- Camera, software and USB 3.0 cables included

Memory Options

The HAS-D7 comes with a standard memory of 8GB.

🔧 **A 16 GB version is available as well.**

*If you wish to have more than 16GB, please ask us for more details.

LT Recorder Pro

In the combination with HAS-U1, makes long term high speed recording possible. Works great with a Notebook PC with a 500 GB SSD. Comes with an exclusive viewer software with full functions such as “Event Search”.

*If you wish to expand SSD, please ask us for more details.

Lighting Options

LED Strobe Lighting



Halogen Lighting



Metal Halide Fiber Lighting



Laser Sheet Lighting



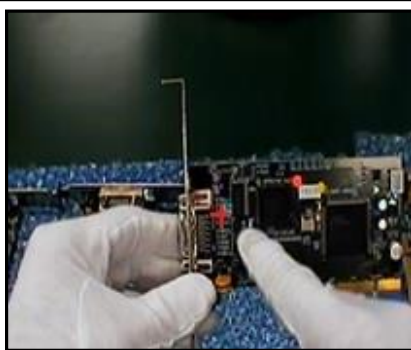
DITECT Analysis Systems



QG-PLUS

- Robust eye tracking performance, instant acquisition, and a greater tolerance for head motion.
- Allows users to capture and analyze data and then stream the data for their own application and development needs.
- User friendly calibration of just gazing at the markers displayed on the screen. Three size options depending on the monitor size. Compatible up to 50 inch monitor.
- The system is installed with a camera and infrared LED light as the source of corneal reflex.

*Monitor and PC are not included in the package. Please ask us for more details if you need.



View Tracker II

- Mobile eye tracking system for tablet PC.
- Suitable for driving tests, eye tracking for commercial purposes, psychology testing, etc.
- User friendly calibration and measurements can be taken with glasses on.
- Allows users to capture downward sight, with the use of a special coating mirror.

*Please prepare the host PC.

SMAS - Sperm Motility Analysis System

- Easy to set up & use, hi-quality Sperm Analyzer using 5 Megapixel camera.
- Analysis items - Numbers of motile/ immotile/ analyzed sperm, Concentration mil/ml.
- Total Count (concentration x semen volume) (mil), Motility rate %, Motile concentration (mil/ml) and motile count (mil), Straight-line velocity **VSL** ($\mu\text{m}/\text{sec}$), Curvilinear velocity **VCL** ($\mu\text{m}/\text{sec}$), Average path velocity **VAP** ($\mu\text{m}/\text{sec}$), Linearity **LIN** (VSL/VCL), Straightness **STR** (VSL/VAP), Amplitude of lateral head displacement **ALH** (μm), Beat-cross Frequency **BCF** (Hz).



*The microscope is optional.



Swing Better Golf Products



Impact analyzer, **Plesio** clarifies all your questions about impact. Images of impact can be replayed as high-speed animation at 1,000 frames/second.



Golf swing analyzer, **Santana** gives you a better understanding of your golf swing. It is equipped with two of our state-of-art high speed cameras, with a shutter speed of only one thousand of a second.



Automatic stance plate, **Stingray** allows you to hit the ball from an angled position indoors.