



Physical Test Solutions

Innovative Solutions in Material Test Equipment

VideoTest Image Analysis Software



Image Analysis Software
Image Analysis Software



VideoTesT Metal

VideoTesT-Metal software is used for automatic steel and Alloys structure quality control by techniques of metallographic analysis and technological processes of metallurgical treatment as well as increasing results of control accuracy and reliability.

During analysis by any available standard the analyzer Simultaneously performs measurements and calculations by methodologically similar methods enabling to view and print out the report with analysis results for each standard.



Main software features:

- Images input via digital cameras (including 8, 10, 12, 16-bit), scanner and opening images from files;
- Automatic quantitative evaluation of microstructures by routines included in the software;
- Recalculating analysis results from one standard to other methodologically similar standards;
- Automatic forming reports with analysis results in accordance with standard selected;
- Printing out reports;
- Saving images and analysis results in a single document or in databases built in.

VideoTesT Structure

VideoTesT-Structure software is designed to analyze images in material science and to solve a wide range of tasks over evaluating of natural and artificial materials structure (rocks and minerals, powders, oils, and lubricants, plastics, metals, ceramics, etc.)

The software can be used for scientific research work, laboratory control, carrying out forensic expertise, innovative technologies developed and existing ones modifying.



Main software features:

- Quick processing similar-type images with obtaining data of full sample statistical analysis;
- A set of ready-to-use preset routines corresponding to the most typical tasks of image analysis in material science (granulometry, phase analysis, porosity, etc.);
- Facility of new routines for user.

VideoTesT Size

General-purpose software VideoTesT-Size is developed for specialists working with images of various objects, preparations and specimens (in medicine, biology, material science, etc.). The software provides ample opportunities for documenting, editing, transforming images and performing measurements.

Main software features:

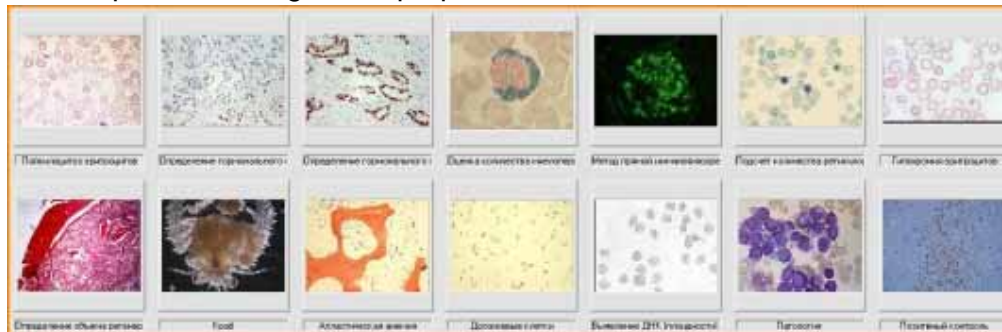
- Images acquisition via TV and digital cameras (including 8, 10, 12, 16-bit) or scanner, opening from files, pasting From Windows Clipboard;
- Capability to work with series of images related to one experiment or specimen and results of their measuring within one document
- Convenient information search and browsing
- Drawing texts, graphics, figures and lines to mark out elements of interest on the image capability to exchange graphics between images
- Obtaining a sharp image from a series of images, parts of which are not on focus
- Linear and angle measurements, objects count
- Automatic measurements of objects contours drawn manually (about 40 parameters)
- Statistical processing of measurements results; data export to MS EXCEL
- Saving images and data; printing out results



VideoTesT Album

VideoTesT-Album 4.0 software is a database destined for inputting, storing and further quick searching images and associated information (tables, graphs, texts, video and audio information, etc.). VideoTesT database is an add-on integrated into VideoTesT software. It is capable of interacting with other Windows applications.

Every VideoTesT application has such built-in database that makes the software more adaptable and a general-purpose tool for a user.



- Acquisition images via TV and digital cameras (8, 10, 12, 16-bit), scanner, opening images from files, pasting them from Windows Clipboard;
- Storing images in compressed form without loss of image quality, it allows saving hard disk space;
- Appending additional information to the images;

- Multilevel sorting and quick information search by keywords, categories and numeric data, information selection by user-defines conditions;
- Forming reports allowing displaying image in all available views: image with objects contours, image with objects masks, objects on background, measurements table;
- Customizing database view and content for different users or tasks using queries. If necessary, user can create and maintain several databases it is convenient to store data for different fields or users;

VideoTesT Morphology

VideoTesT-Morphology software is used to solve wide range of tasks in cytology, histology, hematology, immunohistochemistry, anatomic pathology, microbiology and many other fields. The software is successfully used both at diagnostic laboratories of public and commercial clinics and at scientific research institutions. VideoTesT-Morphology software allows obtaining statistically reliable result with minimal time and efforts expenditures. Analysis can be performed either in manual or in fully automatic modes.

Main software features:

- Quick processing similar-type images with obtaining data of full sample statistical analysis;
- A set of ready-to-use preset routines corresponding to the most typical tasks of image analysis in Medicine and biology (distribution of objects over Selected parameters, objects of different types Percentage calculation, etc.);
- Facility of new routines creating for user.



VideoTesT Hem

VideoTesT-Hem software is destined to automate techniques used in laboratory practice for complete blood count. Advances in technology of automatic blood slides scanning, which allows high-speed images acquiring with further cells recognition, provides high analysis objectiveness with minimal operator participation.

Main software features:

- Fully automated blood slides scanning with camera and motorized stage setting control just from the software;
- Three specific routines of blood cells analysis: "White blood cells formula", "Red blood cells measurements" and "Platelets count";
- Built-in database for analysis results storing.



VideoTesT Sperm

VideoTesT-Sperm software enables to count spermatozoa number in test material, to assess spermatozoa motility and morphological factors. Parameters analysis is performed in accordance with WHO (World Health Organization) recommendations. The software is destined to equip workplaces of specialists dealing with sperm analysis-andrologists, embryologists and researchers in the fields of male contraception and reproductive toxicology. Using computer aided sperm analysis (CASA) has a number of advantages in comparison with visual evaluating additional motility factors such as track speed (velocity of spermatozoa motion along individual tracks), progressive velocity, and linearity as well as morphological factors evaluating.

Main software features:

- Determined spermatozoa concentration (in M/ml-millions per milliliter);
- Measuring spermatozoa movement parameters and classifying spermatozoa into motility classes in accordance with WHO recommendations;
- Automatic dividing spermatozoa into norm and pathology classes by head parameters according to Kruger strict criteria and calculating their percentage;
- Built-in customizable classifier



VideoTesT ZooSperm

VideoTesT-ZooSperm software is for specialists working at semen quality control in public and commercial centers of artificial insemination of farm animals. For fresh sperm quality control the software allows evaluating both total spermatozoa concentration and progressive motile spermatozoa (A class) concentration on a sample being tested and in ejaculate together with calculating number of insemination doses. VideoTesT-ZooSperm software is developed for bull semen quality research. On customer's demand specialists of our company can develop and include in the software new additional methods for semen of other animal's quality research.

Main software features:

- Calculating spermatozoa concentration in a sample being tested (in millions per milliliter);
- Evaluating percentages of spermatozoa with different motility (A, B, C and immotile classes) according to classifier settings;
- Assessing total spermatozoa concentration and concentration of progressive motile spermatozoa (A class) on ejaculate (in millions per milliliter);



VideoTesT FISH

VideoTesT-FISH software is developed to automate a wide range of research according to Fluorescence in Situ Hybridization method and is used to detect genes exact location on chromosomes, to visualize unrecognizable microscopic anomalies, to identify chromosome aberrations, to determine cells aneuploidy quickly, to visualize separate chromosomes segments in interphase nuclei, to ascertain affinity between remote species, etc.

Main software features:

- Work with chromosome and cell specimens images;
- Capability to use a variety of luminescence filters along with camera settings control function for each filter;
- Automatic obtaining the resulting color image by combination of color coded source images;
- Automatic obtaining the resulting color image by combination of color coded source images;
- Automatic human chromosomes karyotyping on the image Obtaining using DAPI filter;
- Capability to create user's chromosome classifier and train this customizable classifier using specialist's own specimens;



VideoTesT Karyo

VideoTesT-Karyo software is developed for cytogenetic specialists. By means of this software user can perform automatic human chromosomes karyotyping, animal and plant chromosomes manual karyotyping. Besides, a specialist can train the software to recognize chromosomes using his own chromosome database.

Main software capabilities:

- Capabilities to work with sample according to bright-field and luminescence methods;
- High-accuracy automatic human chromosomes karyotyping;
- Built-in chromosome ideograms database;
- Built-in database to store metaphase plates Images, karyograms, conclusions and comments;
- Capability to create user's chromosome classifier and Train this customizable classifier using specialist's own specimens.



VideoTesT CGH

VideoTesT-CGH software is developed for automatic analysis of human chromosomes anomalies. Comparative genomic hybridization (CGH) is a molecular cytogenetic technique to detect structural chromosome anomalies. CGH technique provides the whole genome analysis within one experiment.

Main software features:

- Acquiring stacks of metaphase plate images with hybridized DNA (using DAPI, FITC and TRITC filters);
- Calculating fluorescence ratio, which designates the ratio between the intensity of the green fluorescence (the DNA being tested) and the red one (the reference DNA) and creating a color coded image according to the calculated fluorescence ratio;
- Visualizing chromosome regions with deletions and Amplifications;
- Construction fluorescence ratio profiles (FITC/TRITC) of each Chromosome;



VideoTesT Forensic Pro

VideoTesT-Forensic Pro software is used for image analysis in forensic expertise (footprints, fingerprints, bank notes, etc.) and for solving tasks of production control. The software provides ample opportunities for comparing and editing images, drawing graphics and measuring lines. It is notable for high performance, convenience and easiness.

Main software features:

- Image acquisition via TV and digital cameras and scanners, opening images from files, pasting them from Windows Clipboard;
- Wide range of filters for image enhancement including Fast Fourier Transform;
- Drawing various graphics elements and texts on the Images;
- Brightness profiles drawing;
- Drawing contours and lines on images to mark out objects and areas of interest; capability to exchange these contours (lines) between images;
- Capability to create unlimited numbers of templates For multipage reports;



Sales Offices

Headquarters

PHYSICAL TEST SOLUTIONS

11952 Lindblade St.
Culver City, CA. 90230
Tel: (310) 736-1901
info@physicaltestsolutions.com
www.physicaltestsolutions.com/

USA

Assurance Tech, Chicago
Telephone: (630) 550-5000
kenn@atqualit+y.com

Deterco Inc. Houston
Tel: (800) 943-3812
sales@deterco.com

Physical Testing Equipment Services,
Johnston, RI
Tel: (401) 944-4760
info@physicaltestingequipsv.com

Measure-All, Inc., Ohio
Tel: 1-800-758-2376
sales@measure-all.com

México

Cientec, Guadalajara.
Tel : (33)3817-0140
ventas@cientec.com.mx

Equiser, Puebla
Tel: (222) 244 446 5349
victor@equiser.com.mx

Mess - Queretaro
Tel. (442) 196 49 38
ventas@mess.com.mx

GRC Equipos y servicios, Cd. De México.
Tel : (55) 5894-2955
grcm01@prodigy.net.mx

Hemi
Tel: 570-24-34/ 5370-25-16/ 5370-16-73
rrr@hemi.com.mx

Medinor
Te: (662) 251-0126
ycarrillo@medinor.com.mx

Rosdi, s.a. de c.v.
Tel: 914 279 5868
rosdi@prodigy.net.mx

Metrología y Pruebas
Tel: (631) 314-6263
ericaud@mypsa.com.mx

TMS Tools and Metal Supply de Mexico
Tel: 011-52-664-6270474
eleon@toolsandmetals.com

Canada

M&L Testing Equipment
Dundas, Ontario L9H 7H8
Tel: (905) 689-7327
e-mail: info@mltest.com

Latin America

Argentina

Mess s.a.
Tel. / Fax: (5411) 4334-8592
rcsalazar@messmedicion.com.ar
www.messmedicion.com.ar/

Brazil

dpUNION
Tel: 55 11 5079-8411
aribeiro@dpunion.com.br
www.dpunion.com.br

Bolivia

Reguimport - Lab
Tel. +591 22 456 215
gmallesc@entelnet.bo

Colombia

Indutecsa Colombiana
Tel: (571) 6101182
www.indutecsa.com

Chile

Arquimed S.A.
Tel: (56-2) 6346266
jortiz@arquimed.cl

Peru

DIECOM
Tel: 51-12222717
jbustamante@diecomforestry.com

Venezuela

Proyectos Produtec C.A.
Tel: 58 212 761 61 15
lcorredor@cantv.net

Costa Rica

Suinsa S.A.
Tel:(506)8330-1536
edwar.suinsa@gmail.com

Middle East

Egypt

Scientific Trading Co.
Tel: : 202-2670-3806
galal_nough@nough.com.eg

Saudi Arabia

Saudi Technology & Equipment
Company (SATECH)
Tel: +96614502928
abbas@satech-co.com

Dubai

BDH MIDDLE EAST LLC
Tel: 971 4 2852211
sanjay@bdhme.com

Jordan

Elshaktori Trading Establishment
Tel: 962-6-5651057
elshak@nets.com.jo

Europe

Italy

ATS FAAR SpA
Tel: +39-2-2699851
atsfaar@atsfaar.it

England

A.J.T. Equipment Limited
Tel: +44 (0) 1384 482 848
admin@ajtequipment.co.uk

France

Sodexim
Tel: 33-(0) 326-0291-11
sodexim@sodexim.org

Greece

M.I Priniotakis S.A.
30-210-7227719
ikafegidakis@priniotakis.gr

Israel

Fisher Intl Ltd
Tel: 972-8-934 8455
fisherma@inter.net.il

Poland

COMEF Aparatura Naukowo-Badawcza
Tel:+48 32 203 41 49
grzegorz@comef.com.pl

Estonia

Laboritugi OÜ
Tel: 3725249849
laboritugi@laboritugi.ee

Romania

SC RedoxLab SRL
Tel. 004-0264-416427
glodan.mihai@redox.com.ro

Asia

China

Earth Products China Ltd.
Tel: 852-39654890
carmenli@epc.com.hk

India

Unitestmac Systems Ltd.
Tel:91-11-25894580 / 25894782
sales@unitestmac.com

South Korea

Dynatek
Tel: 02-598-6112
jhkim@dynatek.co.kr

Malaysia

Dutech Scientific (M) Sdn. Bhd.
Tel: 6 03-7956 7861
pau@dutechscientific.com

Vietnam

Top Technology JSC
Tel: 84 8 2842405
t-tech@viettel.vn

Indonesia

CV Trimitra Tehnik
Tel (62) 21-591-3967
cv_trimitra@yahoo.com

Nigeria

MD-Mudiame
234-084481305
www.mudiame.com