

Features included in iSolution Capture

Include:

Live Measurement and Overlay Settings

Users can perform measurements on the live preview image, using the crosshair or grid masks to center and count. The grid masks include calibration data. Calibration marker (scale bar) can be placed on the live preview image. The marker (scale bar) can also be burned on each captured image automatically. Any standard file format image can be chosen to see it above live preview image.

Calibration (Auto, Manual)

All measurements start with an accurate calibration. Auto, Semi-Auto calibration functions allow the software to calculate the pixels-per-unit value automatically. Only setting the unit for the calibration scale and the distance between the scale marks is needed. This feature greatly improves the accuracy and repetition of measurements. Manual calibrations are easily added and saved for recall from a drop down menu. All calibrations can be saved as files, which let the calibration be retrieved by simply opening the saved files later.

Calibration can be protected by password option. Two password options, one in calibration menu itself and the other in camera resolution option, protect calibration by unexpected change. A scale bar can be permanently added to each image. Scale bar properties for color, size and text are simple to optimize for any image background.

any stitching mark.

Time Lapse Capture and Movie File Production. . . Import into Power Point

Software features a Time Lapse Capture function that supports TIF, BMP and JPG file formats. The Time Lapse Capture function also includes an Auto Save feature by yyyy/mm/dd/hour/minute/second. You can save video movie recordings in AVI, MPG, MPEG, and MOV formats.

Export Into Excel® - with one mouse click

A single mouse click exports the original image with measurement, calibration, annotation overlay, measurement data, statistics, and chart.

Manual Measurement Tools - Including Various Perpendicular Distance

Software's versatile manual measurement features include tools for measuring lengths, areas, and angles and can even auto detect an object's outline and then make specified measurements. The software is equipped with a wide choice of powerful measurement tools including 3-point circle functionality, Npoint circle measurement functionality, parallel line distance measurement, perpendicular distance measurement and object distance measurement. In addition, a zoom-in window can be used to determine the accurate measuring point of an object.

Once you've measured a specimen you can easily export all of the images, measurement data and statistics to an Excel® file. With iSolution Capture, comprehensive statistics and data are just one effortless mouse click away.

Line Profiling

Single, multiple, parallel and polyline commands provide Gray/Red/Green/Blue intensity values for specific lines within an image. The profile data of each pixel on the line can be exported to MS Excel.

Auto Trace

Using an automatic edge detection algorithm, our software will perform an auto trace measurement function around a closed object. This function greatly increases accuracy and saves time when making measurements of complex shapes.

Image Processing

Manual Brightness, Contrast, Gamma, Background Subtraction, Shading Correction, Histogram, Clone, Crop, AOI, Resize, Rotate, Split, Merge Monochrome series into RGB Color, Combine different exposure Images for highlight reduction, Image Mode Change, Grayscale, RGB, HSB, YUV Pseudo Color view, Full range of enhancement and morphology filters 8bit and 16bit per channel

Manual Measurements

Point Count, Straight Line, Circle by radius, Circle by N points, Circle by diameter, Circle by 3 points, rectangle, polygon, polyline, splice lines from a common point, auto trace, angle parallel lines, perpendicular width, perpendicular from common line, angle between 2 lines, distance, perpendicular distance.

Shading Correction

The edge parts of captured image by low magnification have background shading frequently, which can be removed by the shading correction function. The color of the original image remains the same though. A standard image is acquired from a blank space on the slide glass, or from an out of focus image in a metallurgical specimen. Such a standard image is used to correct the background shading of all other captured images.

Annotation

Line, arrow, polyline, spline, rectangle, ellipse, text

View and Zoom Image

Manual zoom In-Out, User Defined, Fit to Window, 1600% Zoom in Window for Accurate Edge Detect, sizeable context Window to view all open Images

Image Editing

Undo, Redo, Copy, Paste, Paste New, Delete, Delete All, Annotate, Image Information

Save Options

TXT File Format, image and measurement data together in Proprietary .img File Format for future editing and data collection

Supported Image File Formats

jpg, jpeg, tif, tiff, bmp, gif, pcx, tga, mpg, mpeg, avi, mov, img, rpt, txt and etc.

Window View

Split Horizontal, Split Vertical, Cascade, Tile Horizontal, Tile Vertical, Arrange icons, Dynamic User Interface (UI), Classic, Modern

Time Lapse Sequence Control

Play Forward, Backward, Making Movie File (mpg, avi, mov) with Still Images, Split Single Image from Sequence File

highly reflective sample.

System Requirements

- PC with a Pentium-class processor; Pentium 300MMX or higher recommended
- Microsoft Windows Win7/Vista/WinXP/2000/ME/Win98SE operating system
- 32 MB of RAM or more (128 MB recommended)
- 15 MB or more hard-disk space (50 MB recommended)
- CD-ROM drive
- VGA or higher-resolution monitor; Super VGA recommended (1024 x 768 pixel and 24 bit and more color support video card is recommended)
- Microsoft Mouse or compatible pointing device
- USB- or LPT-port for hardware key (depends on delivery).

Supported imaging devices

1. TWAIN Driver
2. DirectShow/ WDM (Windows driver mode) driver
3. i-Link Devices

All PixeLINK cameras.

Optronics digital cameras

- MicroFire

- MacroFire

- QuantiFire and QuantiFire XI

- Microcast
- All MPX series cameras
- All QPX series cameras
- Jenoptik ProgRes digital cameras
 - C3 (cooled and non-cooled)
 - C5 (cooled and non-cooled)
 - C14
 - ProgRes CF and CFScan (cooled, non-cooled, and scan)
 - ProgRes MF (cooled, non-cooled, and scan)
- ProgRes all CMOS cameras.
- Nikon digital cameras
 - DS-U2 Fi1
 - DS 5M/2M-U2
 - DS 5M/2M-U1
 - DXM 1200C
 - DXF 1200F
- Pixera digital camera
 - Penguin series all models
 - Pro series all models
- Scion corporation digital camera
 - CFW series all models
- Matrix vision
 - mvBlueFox digital camera
- Artray
 - ARTCAM-500MI
 - ARTCAM-300MI
 - ARTCAM-200MI
 - ARTCAM-130MI (color, mono, and NIR)
 - ARTCAM-036MI (color, mono, and TWIN)
 - ARTCAM-500P
 - ARTCAM-200SH
 - ARTCAM-150P-II (color and mono)
 - ARTCAM-098 (color and mono)
 - ARTCAM-34MC
- Lumenera
 - Infinity 1 series all models
 - Infinity 2 series all models
 - Infinity 3 series all models
 - Infinity X and Infinity X-21
- XLi camera
 - M series cameras
 - DC series cameras
 - DX series cameras
- Spot digital camera
 - Insight
 - Flex
- Qimaging digital cameras
 - MicroPublisher
 - Retiga
- All Leica digital cameras by TWAIN
- Carl Zeiss AxioCam by TWAIN
- FlashBus frame grabber
 - Spectrim Lite
 - Spectrim Pro
 - MV Lite
- Matrox frame grabber
 - Meteor II
- Avermedia frame grabber
 - EZMaker

Consumer digital cameras

IMT i-Solution Inc.

www.imt-digital.com

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