



NEW VISION
IMAGING SYSTEM
For
Fundus Photo



FUNDUS PHOTO

New Vision Medical Imaging Software Features

- Automatic image acquisition
- Easy image drag-and-drop inserting
- Image editing and manipulation
- Image annotation
- Image-to-image registering and concurrent drawing
- Image comparison
- Cup-to-disk ratio measurement
- Automatic PDT drawing and analysis
- Efficient backup and restore mechanism
- Direct burning to CD and DVD
- Customizable printout support
- DICOM Image processing support (optional)

New Vision Medical Imaging Software Overview

New Vision integrates automated microscopes, digital cameras and software and provides convenient means for digital image acquisition, storage, manipulation and analysis, as well as data exchange and data backup. New Vision solves and simplifies medical research analysis. Various image-processing functions provide tools for diverse imaging tasks such as visualization, measurement, enhancement and documentation. Modular architecture of New Vision allows presentation of a custom system that will fit almost any digital imaging equipment and will satisfy our customer's needs. New Vision is the best choice for professional medical imaging.

Fundus Photo, LLC

3015 Locust Street, St. Louis, MO 63103 * 314.406.3600 * Fax 314.534.6000

e-mail to eyeman@stleye.com



FUNDUS PHOTO

DICOM Server Features (optional)

- DICOM 3.0 Compatible
- Includes a DICOM Server SCP
- Uses fast MySQL Database
- Fully supports Lossless Jpeg Images
- Create DICOM objects from any image
- Archive images to DICOM servers
- Query other DICOM servers and retrieve images
- Web access (optional)

DICOM Server Overview

New Vision DICOM Server is a complete DICOM Solution enabling seamless integration of all types of DICOM-enabled automated microscopes and digital cameras with New Vision Medical Imaging Software, leading ultimately to a complete Hospital PACS system. New Vision DICOM Server offers full-featured DICOM support and functionality.

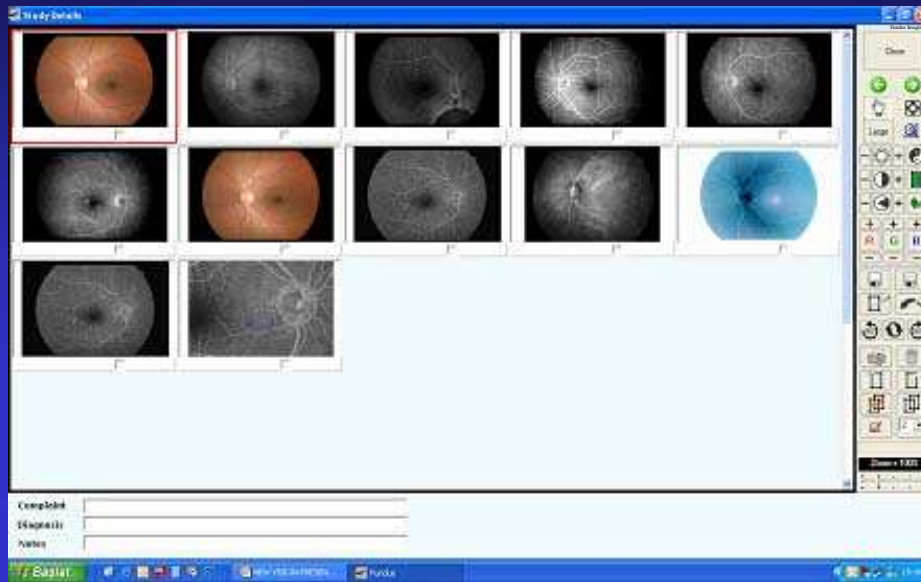
DICOM Conformance Statement

- BTT DICOM Server is a Level 2 (Full) Service Class Provider
- Storage Service Class - Level 2 (Full)
- Related General SOP Class - Level 2 (Full)
- Signature Support - Level 3
- Lossless Jpeg support - 1.2.840.10008.1.2.4.70, 1.2.840.10008.1.2.4.57;
- After a successful C-STORE command a SOP instance is stored in a local DICOM directory and saved to a database together with patient and study information
- SOP Instances are accessed via C-GET protocol or using New Vision Imaging Software
- SOP Instances are stored indefinitely, until deleted by user or moved to a permanent storage location (Backup)
- Full implementation of DIMSE-C protocol

Fundus Photo, LLC

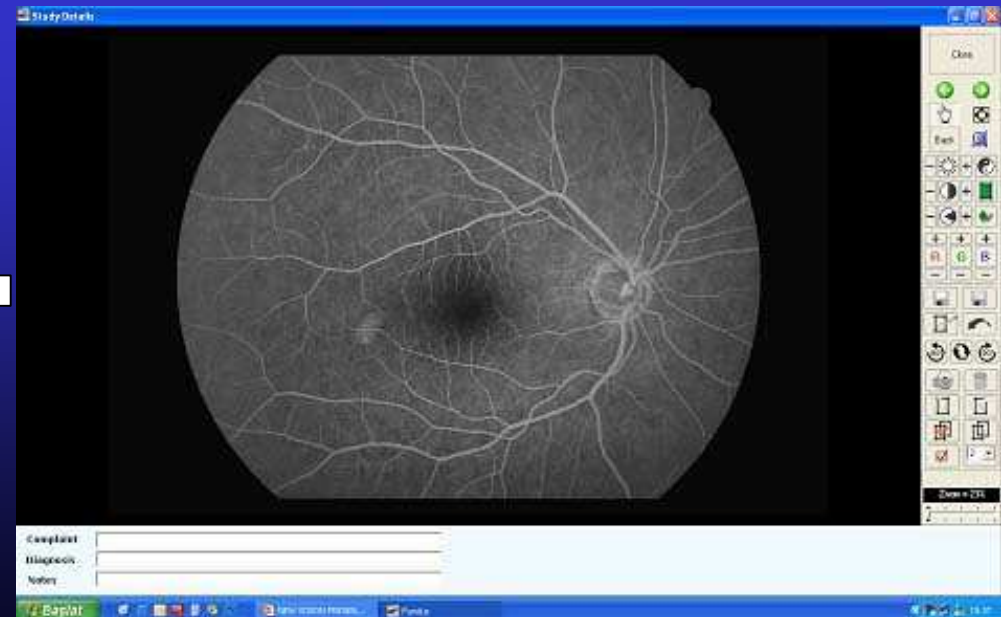
3015 Locust Street, St. Louis, MO 63103 * 314.406.3600 * Fax 314.534.6000
e-mail to eyeman@stleye.com

IMAGE DISPLAY

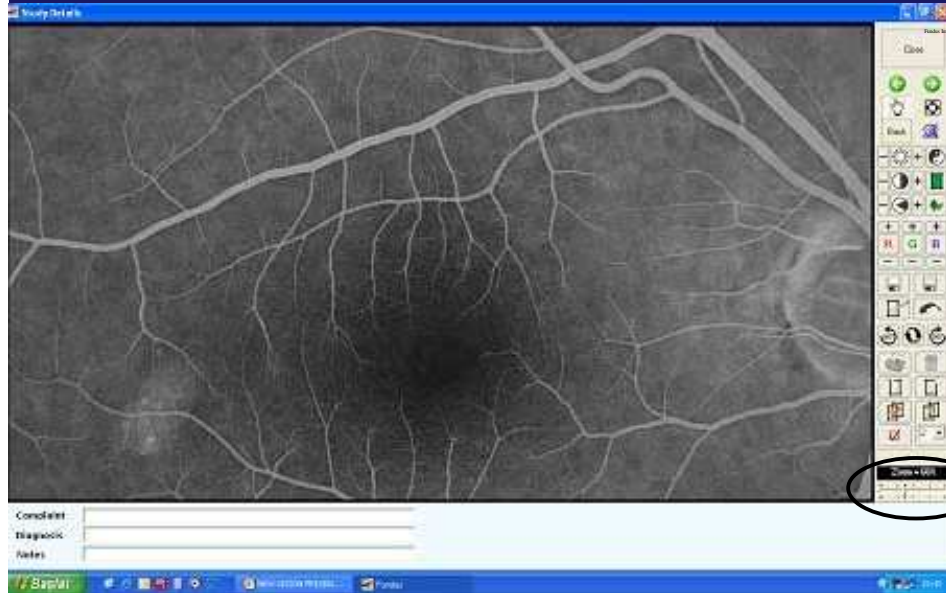


Viewing as thumbnails

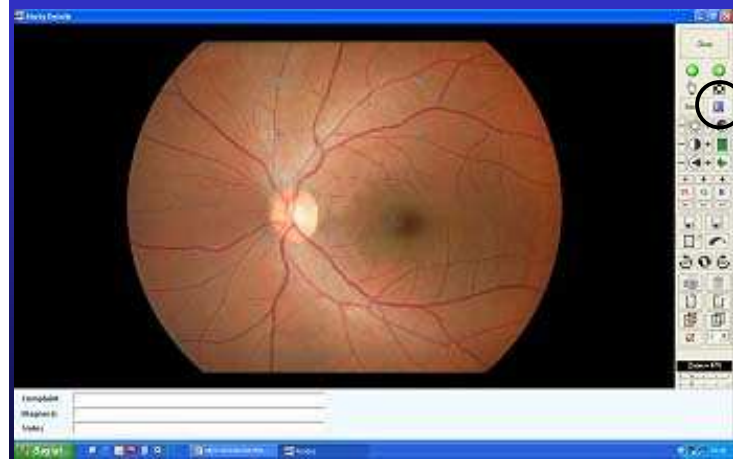
Viewing as large single frames



ZOOMING



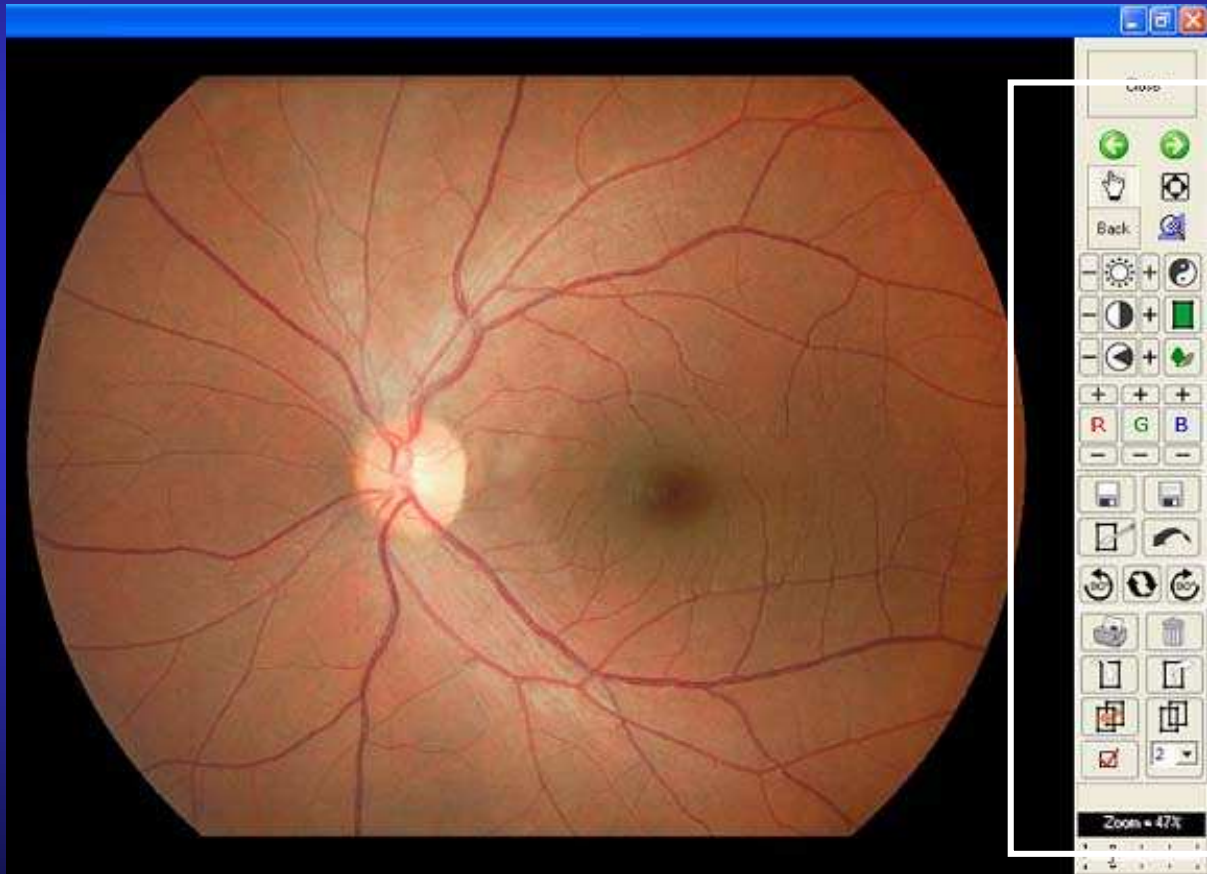
→ Conventional zoom



Regional zoom for specified areas

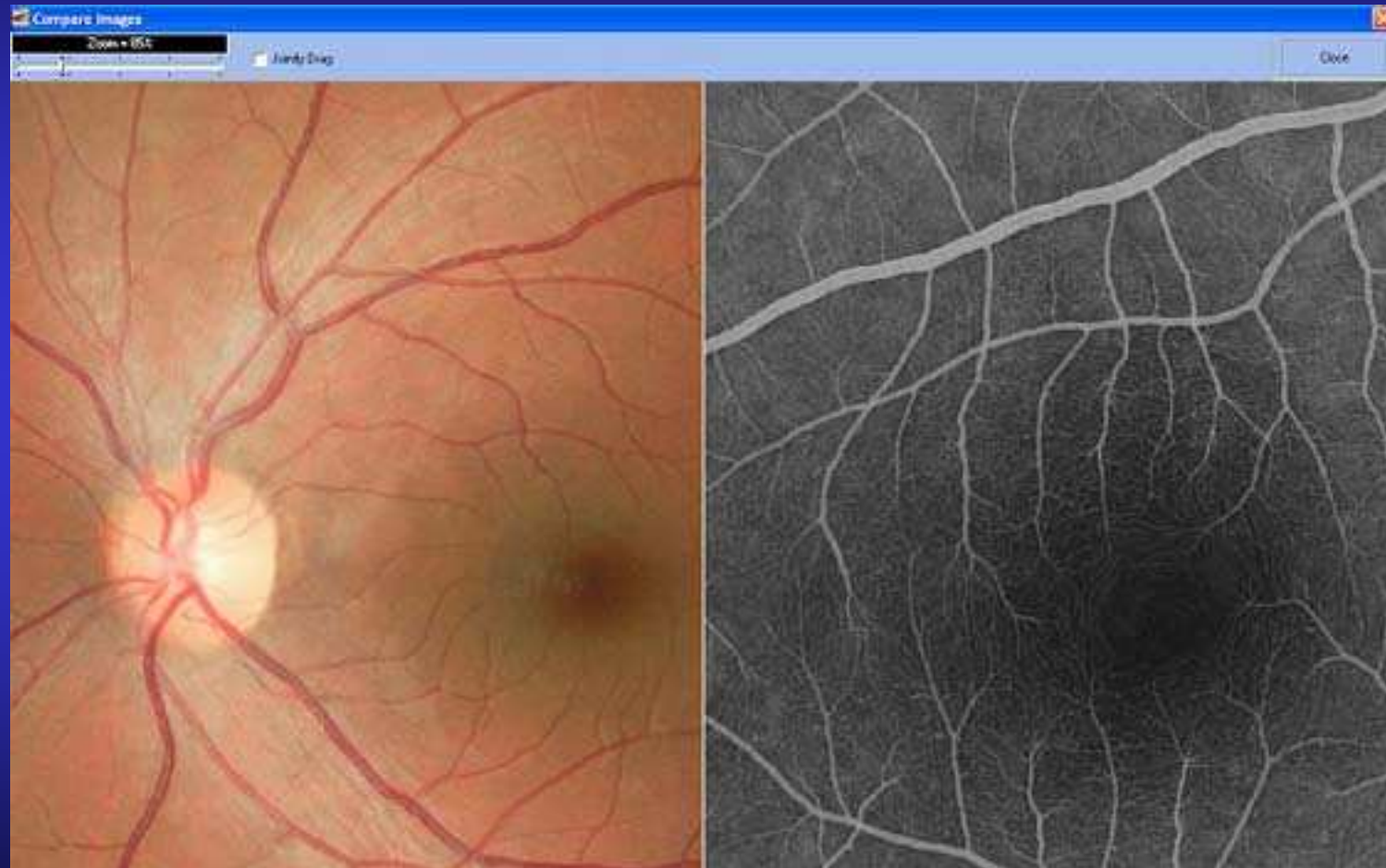
IMAGE PROCESS TOOLS

→ Wide image process tools



Brightness
Contrast
Sharpen
Smooth
Emboss
Invert
Red free
RGB control
Image rotation
Undo
Export
Import

IMAGE COMPARISON



MUTUAL DRAWING

➔ Mutual drawing for helping laser treatment

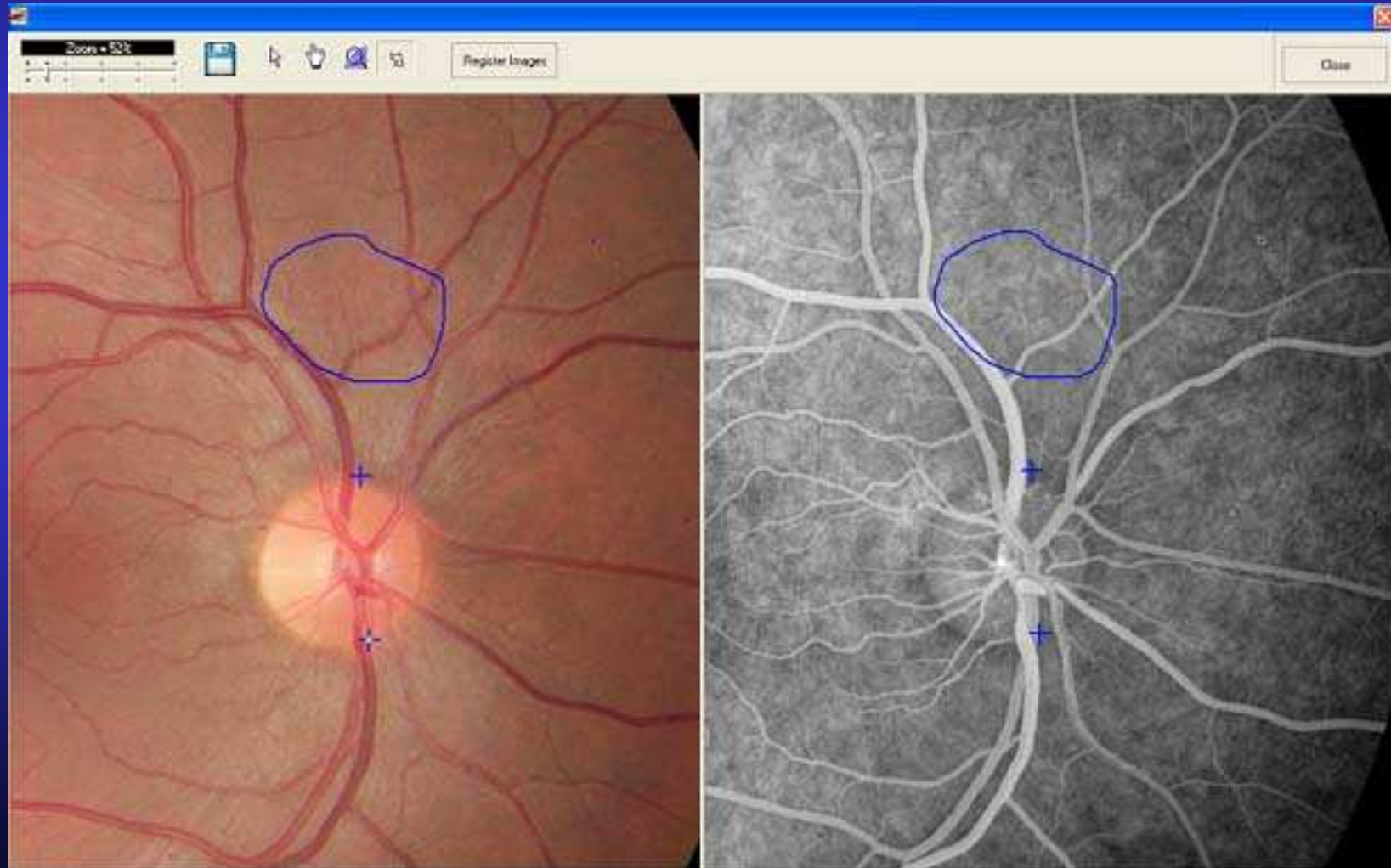
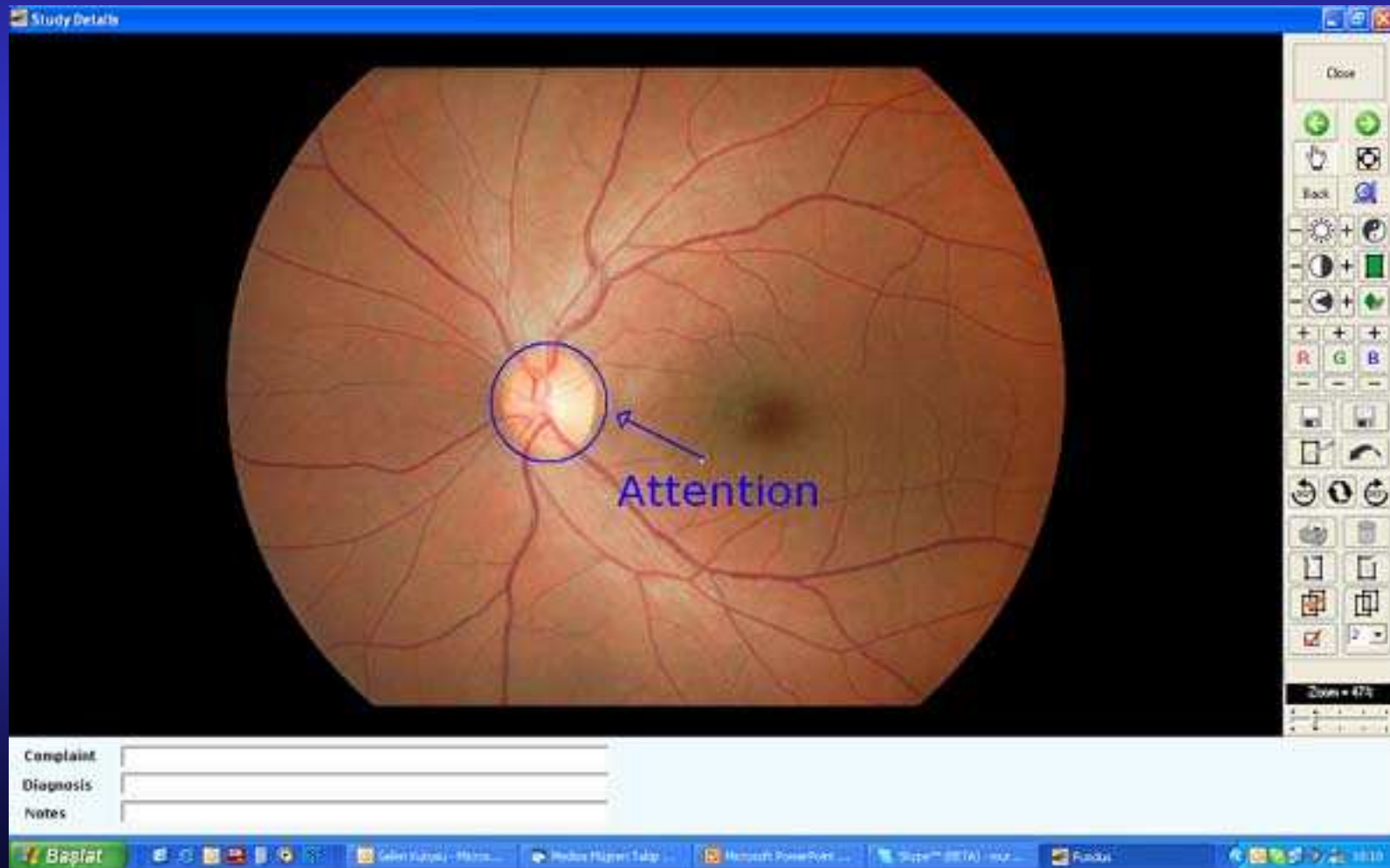


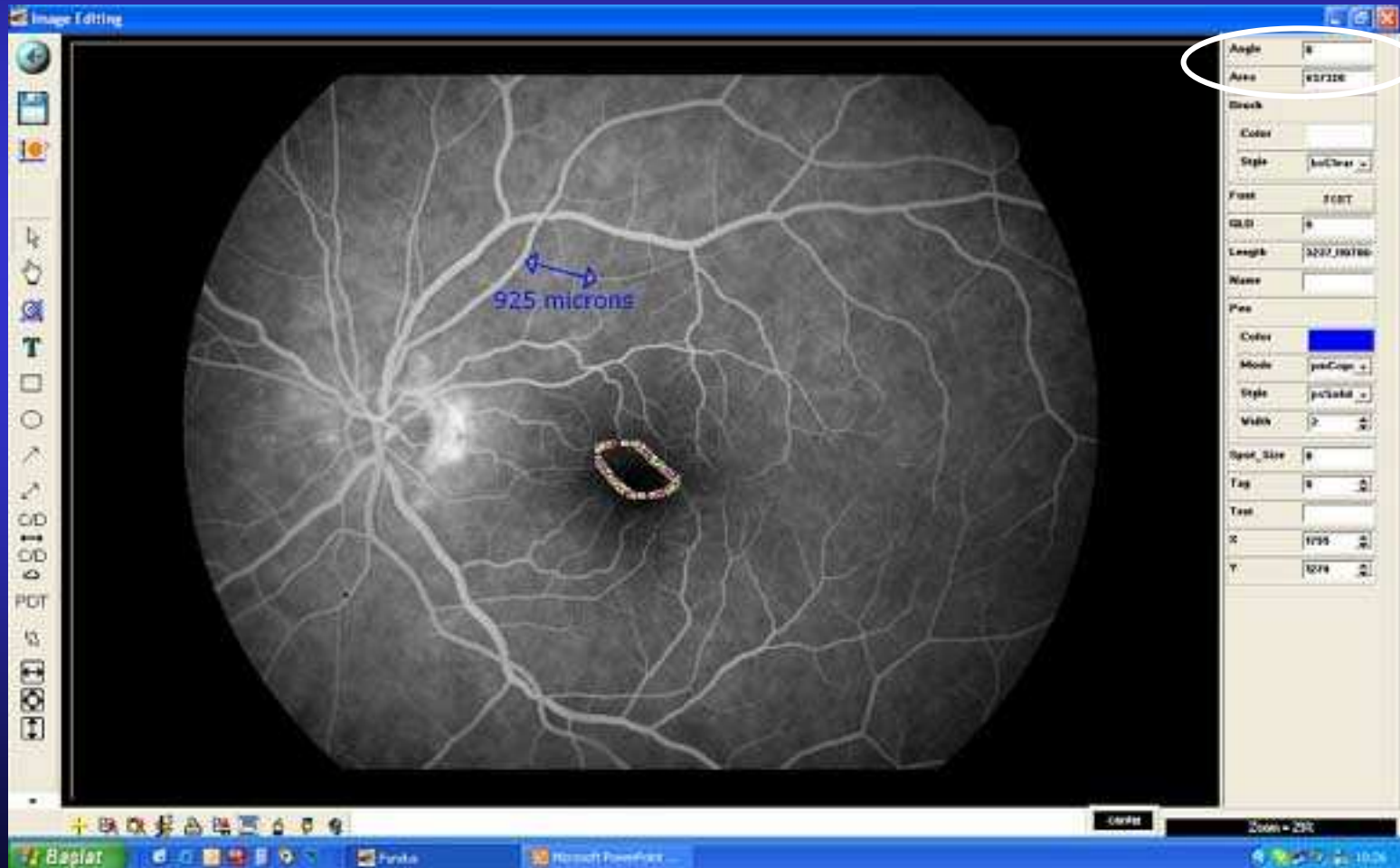
IMAGE EDITING

➔ Various annotation tools



MEASUREMENT

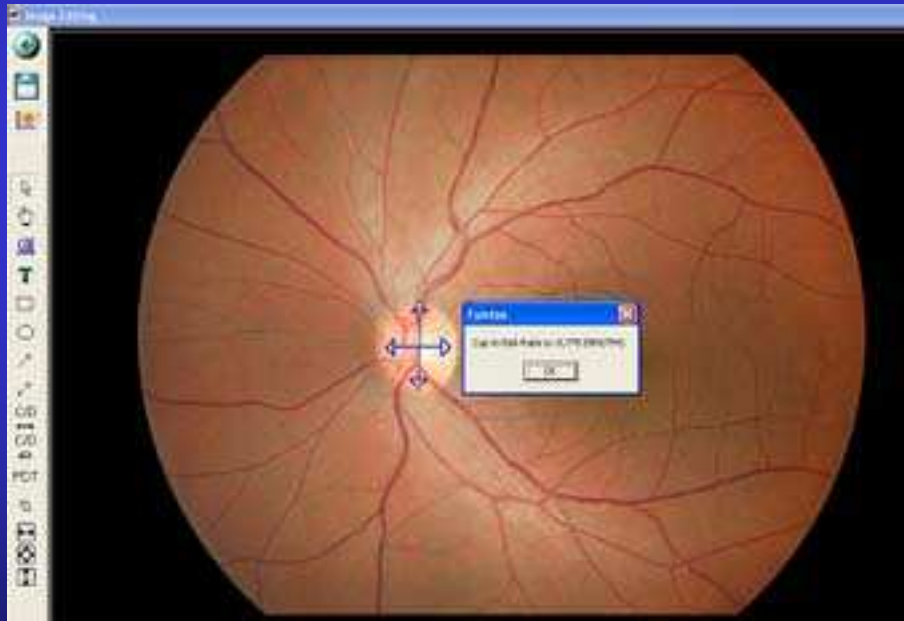
→ Area and distance measurement in microns



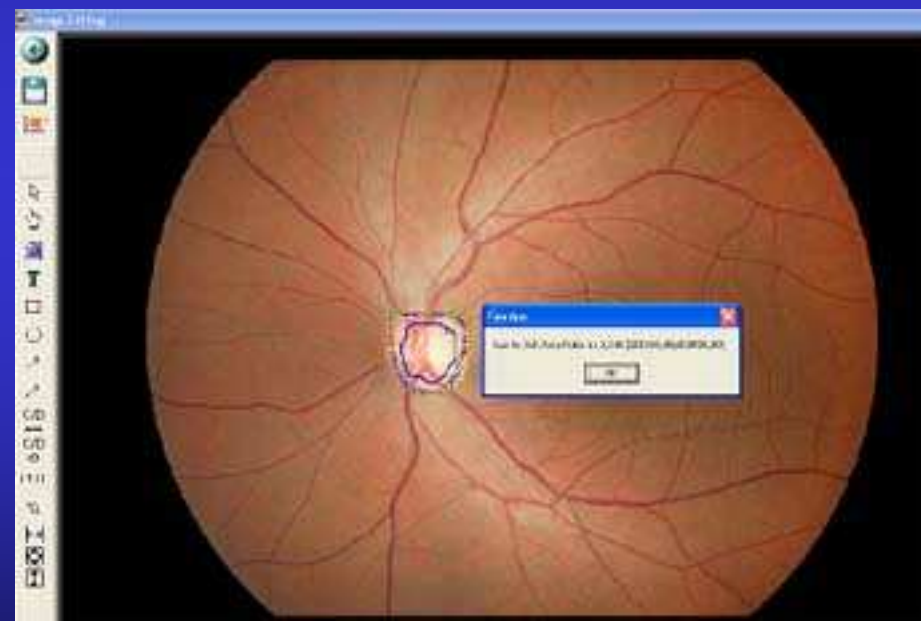
Cup to Disc Ratio CALCULATION

→ Cup to disc ratio calculated in linear and area

Linear



Area



ARCHIVING

- ➔ Intelligent archiving feature enables to select only the images not archived yet and calculate the necessary disc space required
- ➔ Retrieving the archived images back to the database takes only a few seconds

The screenshot shows a software window titled "Archive". It contains the following elements:

- Device settings:** A dropdown menu for "Device name" and a dropdown menu for "Write Speed" set to "4".
- Archive Label:** A text input field containing "Fundus 1004".
- Selected storage:** A label indicating "111 MB".
- Table:** A table with columns "Patient ID", "Patient Name", and "Disk Usage(MB)". All rows are checked with a checkbox.
- Buttons:** "Close", "Burn", and "DB BACKUP" buttons are located on the right side of the window.

Patient ID	Patient Name	Disk Usage(MB)
<input checked="" type="checkbox"/> 102	AYSE KURT	8
<input checked="" type="checkbox"/> 115	DENİZ YEŞİLIRMAK	4
<input checked="" type="checkbox"/> 103	MEHMET SEVER	3
<input checked="" type="checkbox"/> 82	MURAT YILMAZ	7
<input checked="" type="checkbox"/> 116	NEBİYE YILDIRIM	6
<input checked="" type="checkbox"/> 90	NERGİS BALCIOĞLU	83

SEARCH

➔ Quick search

Patient search can be done according to several criteria



The screenshot shows a software window titled "NV FUNDUS v2" with a search interface. The search criteria include:

- Name: d
- Diagnosis: (empty dropdown)
- Patient ID: (empty input)
- Study date: 02.02.2006
- Filter by study date: (unchecked checkbox)

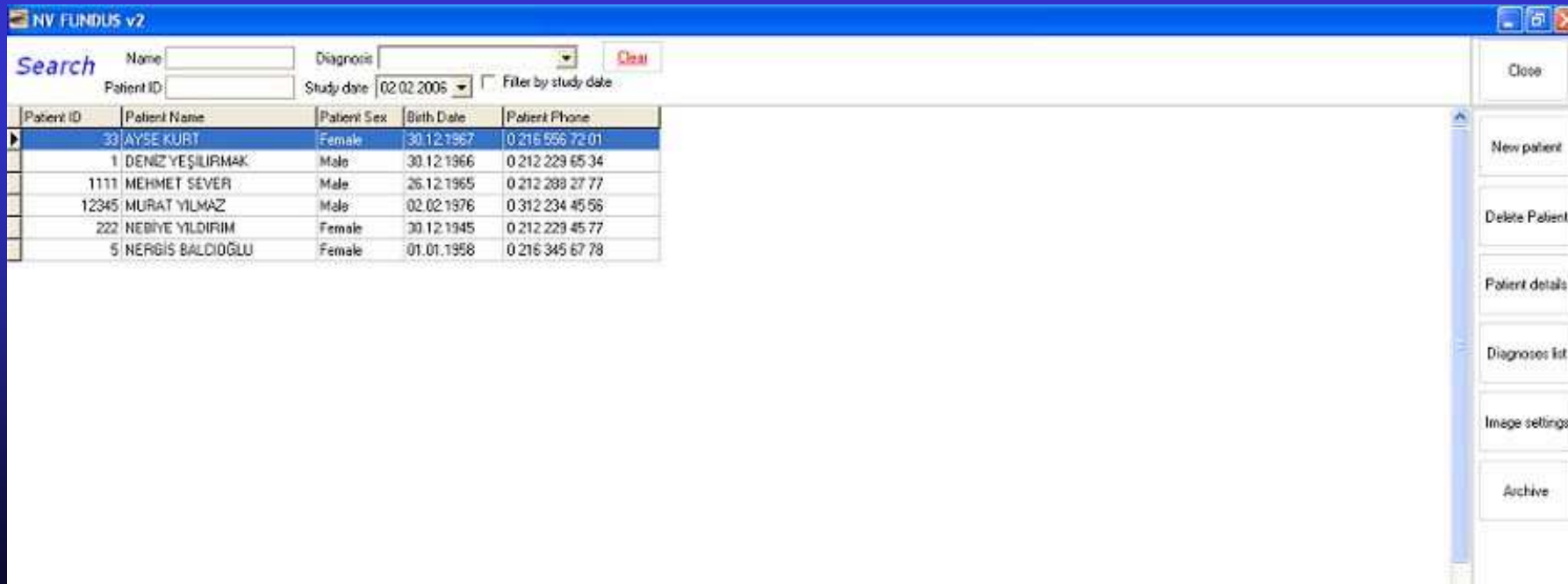
A "Clear" button is located to the right of the search criteria. Below the search criteria is a table with the following data:

Patient ID	Patient Name	Patient Sex	Birth Date	Patient Phone
1	DENİZ YEŞİLIRMAK	Male	30.12.1966	0 212 229 65 34

IMAGE RETRIEVE FROM SERVER

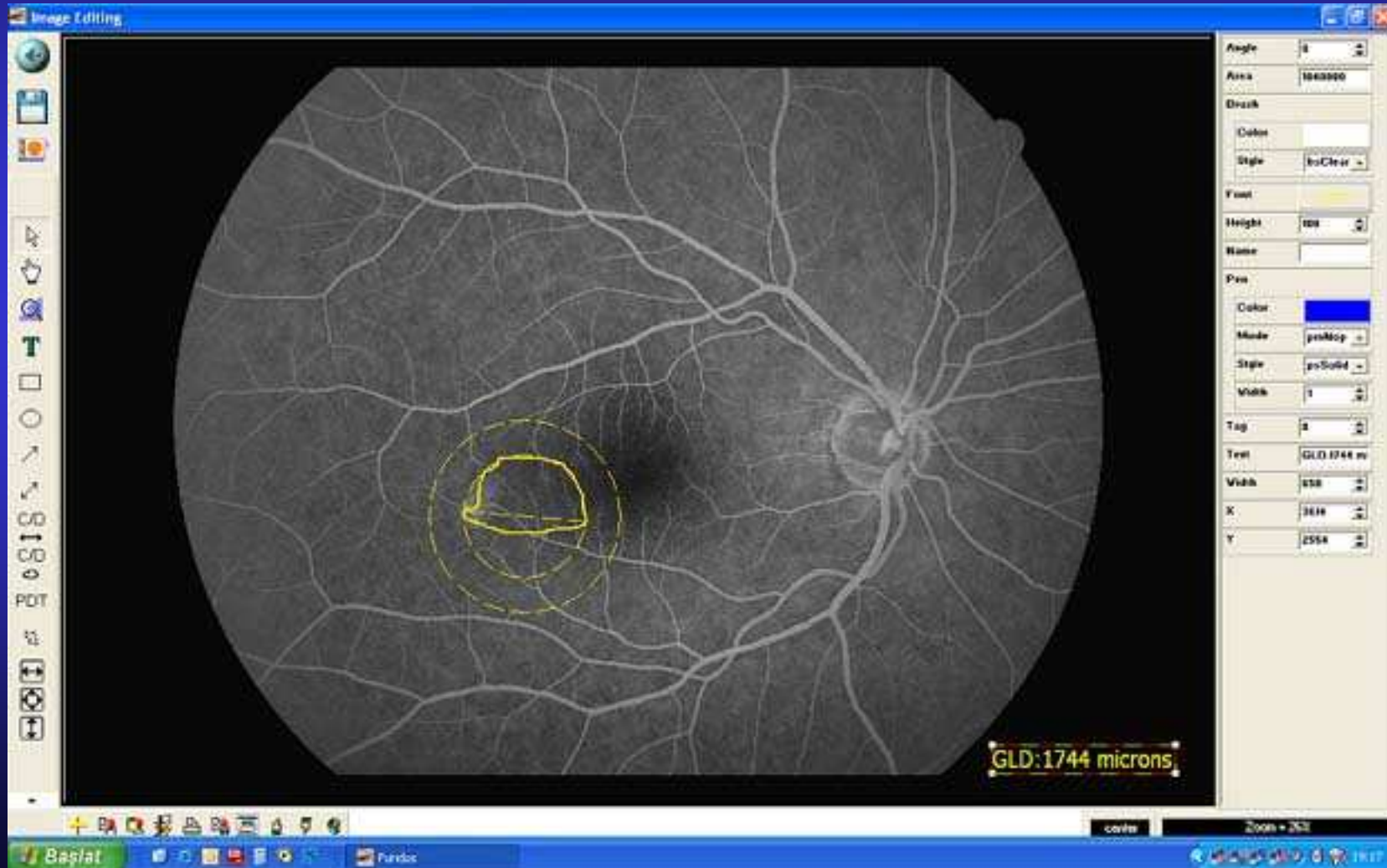
➔ Very simple workflow

1. Images are captured by Canon Control Software and sent to New vision server automatically
2. Captured images are displayed on the database screen after starting New Vision software



PDT CALCULATION

→ GLD and Spot size calculated automatically



PRINTING

→ Flexible and user friendly printing options

