

A Short Introduction to OPTIKA

Corporate Presentation



OPTIKA In Numbers



3 » Divisions

4 » Subsidiaries

45 » Age of OPTIKA

80+ » Members of Staff

100+ » Models of Microscopes Available

300+ » Partners for Long-Term Relationships

2.000+ » Models of Scientific Products Available

3.000+ » Square Meters of OPTIKA Headquarters

4 Millions » Instruments Sold, All Over the World

OPTIKA®
M I C R O S C O P E S
I T A L Y

OPTIKA®
S C I E N C E
I T A L Y

OPTIKA®
B A L A N C E S
I T A L Y

OPTIKA At A Glance

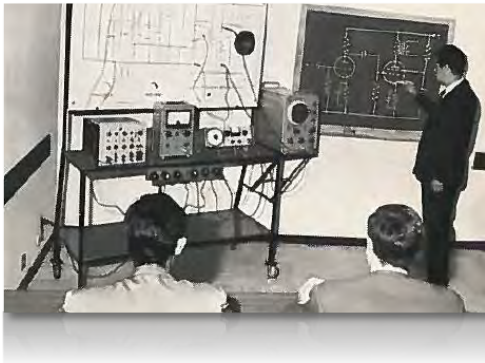


- Privately Owned Company, Established in 1971
- Headquarters and Production Facilities in Bergamo, **Italy** (around 30 Km NE of Milan)
- **Subsidiaries** with Area Managers on-the-spot, Customers' Support Centers and Well-Stocked Warehouses in **Spain** and **China**
- Sales Office in India and Hungary

An Impressive History

1971

The company was founded by a **physics** teacher with great capabilities in combining design skills with teaching sensitivity.



1990's

The second generation started to manufacture **microscopes**. The company is growing fast, passing from few employees to more than 60.



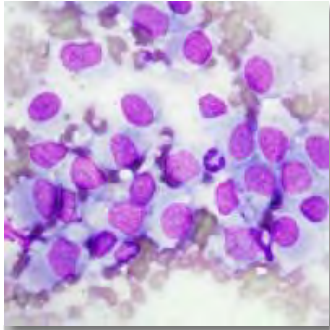
Nowadays

OPTIKA is a leading manufacturer and supplier of instruments for lab, educational, industrial & medical use, worldwide.



Key Markets

Life Science



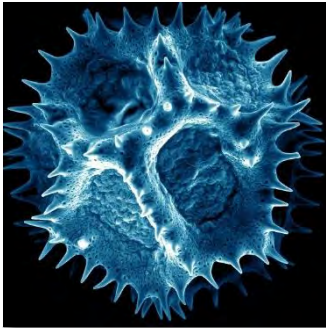
Material Science



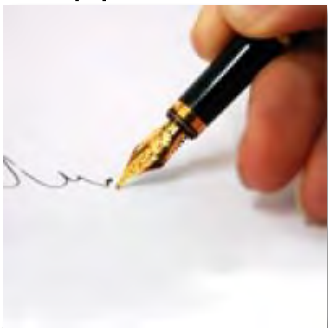
Education



Environmental
Science



Customized
Applications



10 Simple Reasons For Choosing OPTIKA

1. Made in Italy / Assembled in Italy
2. 100% Quality Control
3. Continuous Innovation
4. Unparalleled Flexibility & Prompt Reactivity
5. Short Delivery Time
6. Excellent Quality/Price Ratio
7. Italian Design
8. After Sales-Service & Assistance
9. 5-Year Warranty on Microscopes (2-Year on Digital & Cameras)
10. Complete Range for Educational, Industrial, Research and Medical applications



We Highly Value Innovation

At OPTIKA, existing solutions are constantly improved & new products are launched regularly year after year to ensure the latest technology for the greatest performance...

2013
ALC
Automatic Light Control



2014
Microscope
& Windows Tablet



2015
LED Bench-top
Polarimeter



2016
Motorized Microscope,
Mouse-Controlled



The First-To-Market

Every year, OPTIKA invests more than **25%** of the profits for R&D, made of a team of highly skilled and qualified engineers with long experience in Optics, Electronics and Mechanics fields.

The Most Significant Projects Transformed Into Reality

The **F1RST** to introduce onto the market:

- » LED Microscope
- » LED Fluorescence Microscope
- » Automatic Light Controlled (ALC) Microscope
- » Motorized Microscope Touchscreen-Controlled
- » Motorized Microscope Mouse-Controlled
- » LED Darkfield Microscope for Fresh Blood Analysis
- » LED Darkfield Microscope for Diamond Analysis
- » 2-in-1 Microscope for Gemology
- » LED Fluo Inverted Microscope with B/G Filters



X-LED Illumination



CUT ELECTRICITY BILLS BY 90%

- » Money & energy saving
- » Low power consumption, only 3.6W
- » LED long lifetime
(50.000 hours = 20 years at 8 hours/day)

POWERFUL & UNIFORM ILLUMINATION

- » Unmatched color fidelity & brightness
- » Special technology, enhanced light intensity
- » Constant white color temperature (6.300K)

Windows Tablet PC



BREAK NEW GROUND WITH TABLET PC

- » Accurate, dependable results in one click
- » Equipped with Windows 10
- » Holding solution for open discussion, 360° rotating and tilting

OPTIMUM & UNPARALLELED COMFORT

- » Large touch screen of 10" with fast, responsive and smooth control
- » Easily detachable, can be used as a laptop (keyboard included)
- » Simultaneous camera and power connection for long-term operation

ALC Auto Light Control

STEP 1

Set the brightness according to your preferences.



STEP 2

Press the ALC button to save the brightness level.



STEP 3

Forget about the illumination!

The microscope will automatically adjust the brightness for you, in case of:

- Another objective is used
- The diaphragm aperture is changed
- Another specimen with different opacity is processed



Regulation of diaphragm aperture

UNPARALLELED COMFORT DURING USE

- » Choose the best light intensity
- » Press a button & maintain the same light intensity
- » No need to continuously adjust the light intensity

AUTOMATIC LIGHT CONTROL & ADJUSTMENT

- » When another objective is used
- » When the diaphragm aperture changes
- » When processing another sample with different staining

Mouse/Touchscreen Control



THE MOST COMFORTABLE MICROSCOPE

- » Premium design and engineering
- » All the controls through a mouse/screen
- » Fast, yet fine and accurate regulations

MOTORIZED CONTROL

- » When changing objective
- » When moving the stage
- » When adjusting the focus

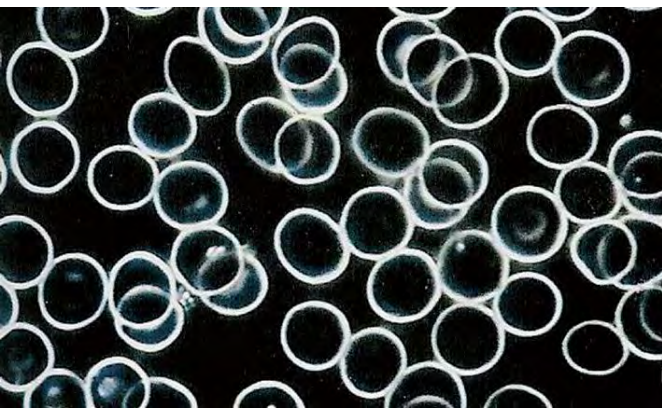
LED Darkfield for Blood



TWO-IN-ONE CONDENSER DRIVING TO TOP PERFORMANCES

- » Swing-out 1.25 N.A. centrable condenser
- » 1.36 N.A. special efficient darkfield condenser
- » X-LED illuminator, built-in into the condenser

This solutions designed by OPTIKA exceeds the result achieved by 150W external illuminators when combined with traditional cardioid darkfield condenser.



2-In-1 For Gemology



EXTREMELY VERSATILE SOLUTION

- » Can be used both vertically & horizontally
- » Horizontal use enables immersion analysis
- » For rapid evaluations of refractive index, gem's inclusions and color distribution

A COMPLETE SOLUTION FOR GEMOLOGISTS

- » Incident, transmitted and oblique illumination
- » Brightfield, darkfield and polarization, all in one
- » Ultrabright LED condenser for real, perfect darkfield applications

LED Fluo Inverted Microscope



LED FLUORESCENCE, DISCOVER NEW HORIZONS

- » Eliminate warm-up/cool-down times
- » Forget lamp replacement & centering
- » No need for lamp maintenance

CHOOSE FOR LOWEST RUNNING COSTS

- » Cost-effective, money saving technology
- » Extended lamp lifetime, > 50.000 hours
- » Limited power consumptions

Manufacturing



Assembled or Made in Italy.

By choosing OPTIKA,
you decide to invest on **genuine** instruments.

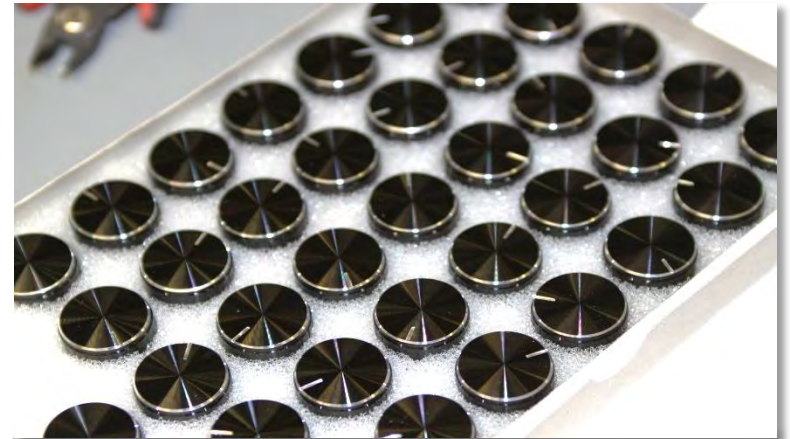
In fact, most of our products are **Assembled in Italy** by skilled technicians to provide superior performance; some others are **Made in Italy**, all planned, manufactured and packed in Italy.

Improving the quality and features of all our products and creating more value is a continuous **challenge** for us.

As an additional demonstration of our commitment, a **5-year warranty** is ensured on most of the products.



Manufacturing



Quality



OPTIKA is ISO 9001 Certified since 2009.

All our products undergo a strict quality control process in our headquarters, whereby 100% of the products are **individually tested** to ensure they match premium quality standards.



Customer Service



Differentiating Ourselves on Customer Service.

We recognize that providing high quality products is not enough.

That's why our multi-lingual teams are dedicated and trained to ensure an **excellent pre- and post-sales support**, in terms of technical and application assistance.

Orders are processed for fulfillment within 24 hours of receipt and typically, they are shipped within 48 hours if items are in stock.

However, OPTIKA will do its best to ensure the quickest possible processing of every order.



Global Presence



People worldwide rely on OPTIKA for significant discoveries and the most diversified applications, every day.



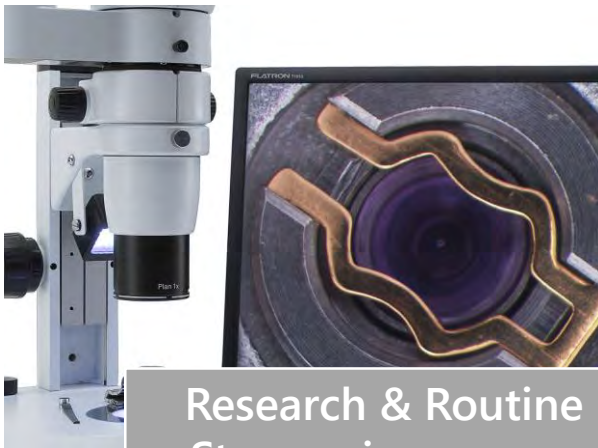
OPTIKA Microscopes



Educational
Microscopes



Laboratory
Microscopes



Research & Routine
Stereomicroscopes



Digital & Cameras

Educational Microscopes

A Comprehensive Range Of Quality Microscopes For Students

- » Extremely reliable microscopes for education, from primary school to universities
- » Digital microscope with 10.1" tablet PC, Windows based, with fast, responsive and smooth control
- » Incomparable illumination technology - XLED and ALC technology
- » Cordless, easily transportable and suitable for field use
- » Compact, practical and intuitive to use, even by the youngest students
- » Only simple lens cleaning is required time to time & dust cover protects from contaminants

Upright - ECOVISION Series, B-150 Series, B-190 Series, B-290 Series

Stereomicroscopes - STEREO Series, LAB Series

Educational Microscopes

B-150 series has been designed to fulfill all requirements of educational laboratories.

The quality of the optics, the reliability of the mechanical parts and the excellent price/quality ratio rank these instruments at the top of their category.

B-190 & B-290 series are the result of a perfect fusion between years of experience in microscopy's field and a refined design study.

These series present our philosophy at its best: quality, reliability and innovation, being the answer to the challenge of the future of microscopy in teaching field.



Educational Microscopes



B-150 Series

Monocular / binocular heads
 WF10x/18 eyepieces
 Triple or quadruple nosepiece
 Achromatic objectives
 Plain stage with clips or
 mechanical stage with holder
 Abbe condenser with diaphragm
 (0.65 N.A. / 1.2 N.A.)
 Coaxial coarse and fine focusing with stop
 1W LED illumination



B-190 Series

Monocular / binocular / trinocular heads
 WF10x/18 eyepieces
 Quadruple nosepiece
 DIN Achromatic objectives
 Double layer moving stage
 Abbe condenser, adjustable height, with
 diaphragm (1.25 N.A.)
 Coaxial coarse and fine focusing with stop
 X-LED2 illumination



B-290 Series

Binocular / trinocular heads
 WF10x/20 eyepieces
 Quadruple nosepiece
 E-PLAN / IOS E-PLAN objectives
 Rackless double layer moving stage
 Sliding-in Abbe condenser, adjustable height,
 with diaphragm (1.25 N.A.)
 Coaxial coarse and fine focusing with stop
 X-LED3 illumination

Laboratory Microscopes

An Incomparable Offer Of Upright and Inverted Microscopes For Laboratory and Research

- » Incomparable illumination technology - XLED and ALC technology
- » Powerful and uniform illumination doubles the light intensity for unparalleled performance
- » From 20mm to 24 mm field of view and with high quality IOS optical system
- » Possibility to create your own configuration with B-800 & B-1000 Series, fully modular
- » Wide choice of stages, including motorization, rackless and the unique MPC
- » Comfortable operation thanks to the ergonomic design and engineering

Upright - B-380 Series, B-500 Series, B-800 Series, B-1000 Series

Inverted - IM Series

Laboratory Microscopes

B-380 series is the perfect response for routine works requiring several hours of use with the microscope. Maximum comfort and relaxed working conditions are ensured by easily accessible controls and all its features, including the revolutionary ALC system.

As a flagship instrument, **B-1000 series** originates from customer with most demanding feedbacks and needs. Its modularity and versatility will allow to find the perfect place in any clinical or basic research laboratory.

The **IM series** of inverted microscopes completes the range of laboratory microscopes.



Laboratory Microscopes



B-380 Series

BF / PH / FLUO / MET / POL

Binocular / trinocular heads

WF10x/20 eyepieces

Quadruple or quintuple nosepiece

E-Plan / IOS E-Plan objectives

Double layer moving stage or
rackless double layer moving stage

Sliding-in Abbe condenser, adjustable height,
with diaphragm (1.25 N.A.)

Coaxial coarse and fine focusing with stop

X-LED3 / X-LED3 with ALC illumination



B-500 Series

BF / PH / FLUO / MET / POL

Binocular / trinocular / multi heads

WF10x/22 eyepieces

Quadruple or quintuple nosepiece

PLAN / IOS PLAN objectives

Double layer moving stage

Swing-out Abbe condenser, adjustable
height, with diaphragm (0.9 N.A. / 1.25 N.A.)

Coaxial coarse and fine focusing with stop

20W halogen / X-LED3 illumination



B-800 / B-1000 Series

BF / PH / FLUO / MET / POL

Binocular / trinocular / multi heads

WF10x/22 or 24 eyepieces

Quintuple or sextuple nosepiece

Modular

Modular

Modular

Modular

X-LED8 illumination

Laboratory Microscopes



IM Series

BF / PH / FLUO / MET

Trinocular heads

WF10x/22 eyepieces

Quintuple nosepiece

LWD IOS PLAN objectives

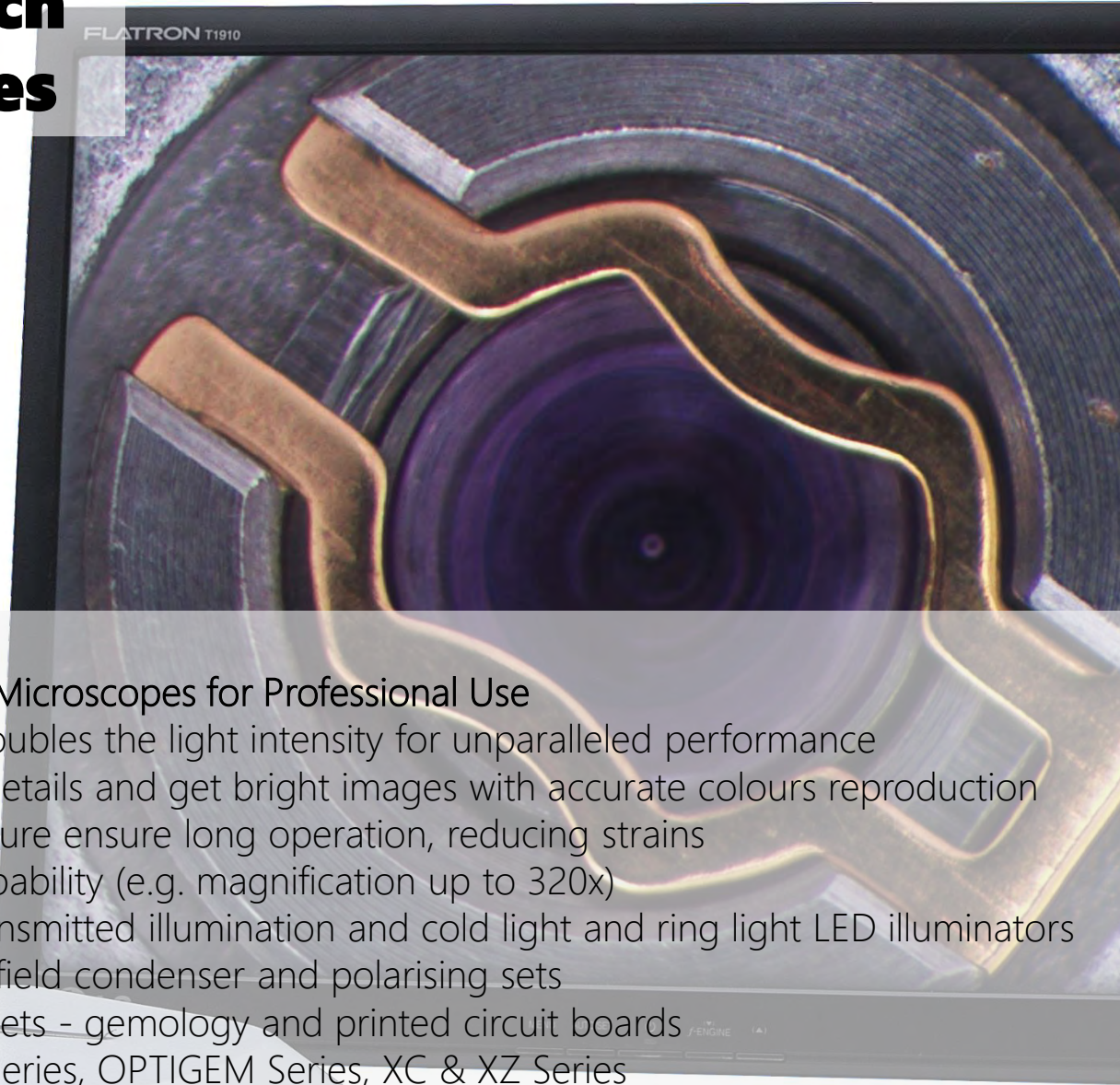
Translating moving stage

LWD condenser (0.30 N.A.)

Coaxial coarse and fine focusing with stop

X-LED8 illumination

Routine & Research Stereomicroscopes



Greenough and Galilean Stereozoom Microscopes for Professional Use

- » Powerful and uniform illumination doubles the light intensity for unparalleled performance
- » High-resolution images to observe details and get bright images with accurate colours reproduction
- » Adjustable tilting tube and right posture ensure long operation, reducing strains
- » Several accessories to extend the capability (e.g. magnification up to 320x)
- » Stands with LED diffusing disc for transmitted illumination and cold light and ring light LED illuminators
- » Combine cameras, illuminators, darkfield condenser and polarising sets
- » Dedicated solutions for specific markets - gemology and printed circuit boards

Stereo - SZM Series, SZN Series, SZP Series, OPTIGEM Series, XC & XZ Series

...& Industrial Microscopes

Different industrial applications require different microscopes.

Thanks to the modular design of our **stereomicroscopes** and **stereozoom microscopes**, we can provide a customized solution for any application.

To complete Industrial request we have our **metallurgical instruments** based on specific metallurgical infinity optical system.



Routine & Research Stereo



SZM Series

Binocular / trinocular heads
 WF10x/20 eyepieces
 0.7x....4.5x objective
 100 mm working distance
 Macro & micro focusing
 Pillar stand / overhanging stand
 Incident & transmitted (halogen, [X-LED](#))



SZN Series

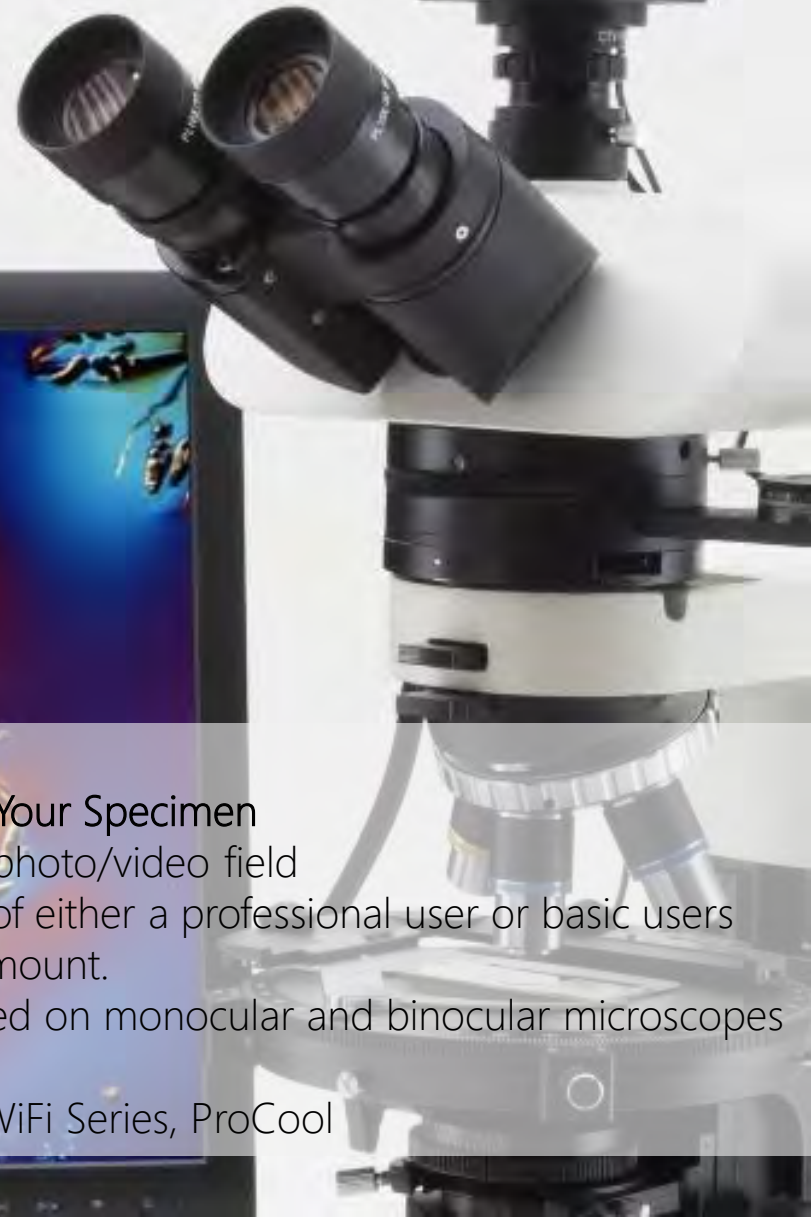
Binocular / trinocular heads
 WF10x/22 eyepieces
[0.67x....4.5x](#) objective
[110](#) mm working distance
 Macro & micro focusing
 Pillar stand / [simple overhanging](#) / [hinged overhanging](#)
 Incident & transmitted (halogen, [X-LED](#))



SZP Series

Binocular heads, [Galilean/CMO](#)
 WF10x/22 eyepieces
[0.8x....8x](#) objective
[80](#) mm working distance
 Macro & micro focusing
 Pillar stand / large stand / industrial stand /
 overhanging stand (simple or hinged)
 Incident & transmitted (halogen, [X-LED](#))

Cameras & Digital



Impressive Images And Live Videos To Get All The Details Of Your Specimen

- » Wide range of instruments fulfilling any requirement in the photo/video field
- » Choose among different resolutions to meet the demands of either a professional user or basic users
- » Easy connection on biological or stereomicroscopes, by C-mount.
- » Some models with optical eyepiece adapter ready to be used on monocular and binocular microscopes

Tablets PC - TB-3W, TB-5W

Cameras - Budget Series, Pro3/Pro5 LT Series, HDMI Series, WiFi Series, ProCool

Cameras & Digital

Get impressive images from your microscope in a very easy way!
The digital and cameras equipment is quickly and constantly evolving.

OPTIKA is providing the latest technology with a wide range of solutions with different resolutions fulfilling any requirement for photo/video.

Either professional users and people looking for an economic but valuable product will find in OPTIKA solutions exceeding their expectations.



Cameras & Digital

WINDOWS Tablet PC



FOR DISCUSSION GROUPS

- » 10.1" touch screen, clearly superior images
- » 2-in-1 solution

OPTIKAM Budget



FOR GENERAL PURPOSES

- » User-friendly USB cameras
- » Convenient, plug-&-play solutions
- » Different resolutions available (up to 10 MP)

OPTIKAM Wifi



FOR TEACHING & GROUPS

- » WiFi connection
- » Unlimited users connectable
- » Supported by any device (PC, tablet or smartphone)

Cameras & Digital

OPTIKAM Fast3



EXTREMELY FAST LIVE-VIEW

- » USB3.0, the latest technology
- » Extremely reliable color fidelity

OPTIKAM HDMI



HIGHLY VERSATILE USE

- » For QC, lab & industrial apps
- » High-definition cameras in HDMI & USB mode
- » Plug-&-play, for TV screen

OPTIKAM PRO LT



RESPONSE TO PROFESSIONAL NEEDS

- » Incredibly high color fidelity
- » Recommended for fluorescence applications

Cameras & Digital

OPTIKAM PRO Cool 5



PERFORMING RESULTS IN LOW LIGHT CONDITIONS

- » High sensibility, professional cooled camera
- » Ideal for challenging fluorescence samples

EDUCAM & VC



THE MUST-HAVE IN EDUCATIONAL FIELD

- » Direct connection to TV screen
- » Up to 90x magnifying power

OPTISCAN



CONVERT YOUR GLASS SLIDES INTO DIGITAL DATA

- » Creating a database
- » Networking slide libraries
- » Sharing
- » Information storing

For a Brighter Future

OPTIKA®
M I C R O S C O P E S
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S C I E N C E
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