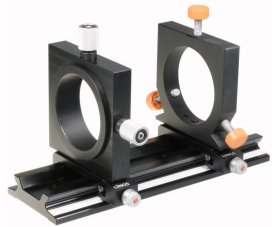


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Optical Components
Liquid Lenses
Opto Mechanics
Laser & Lightsources
Laser Dyes
Spectrometers
Software
Vision & Cameras



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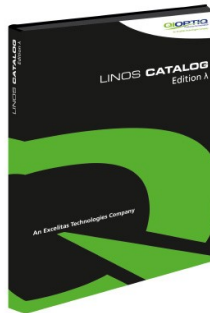
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Optical Components

- Singlets
- Achromats & Lens systems
- Laseroptics
- Microscope Optics
- Plane Optics
- Polarizing Optics
- Mirrors
- Gratings
- Thin Film Coatings
- Faraday Isolators
- Laser Modulators
- Pockels Cells



Camera lenses

- Machine Vision lenses
- Inspection lenses
- Microscope objectives
- Macro CCD lenses



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Liquid lenses

The unique characteristics of Corning Varioptic Lenses offer:



- No moving parts
- Hundreds of millions of cycles endurance
- Speed: much faster than mechanical actuators
- Robustness and unmatched mechanical shock resistance: tested at 2000g / 0.25ms / 100 times (x2 directions)
- Close focus ability: from infinity to below 5 cm
- Low power consumption: <1 mW (~20 mW with driver)
- Silent operation



Applications:

- Barcode readers
- Biometrics
- Endoscopes
- Lasers
- Low vision devices
- Machine vision
- Medical imaging
- Ophthalmology equipment



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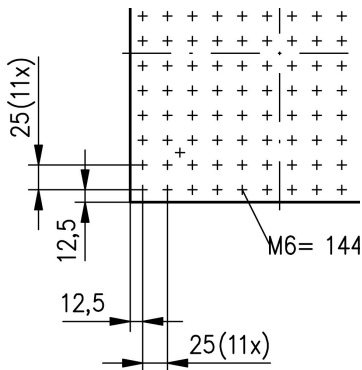
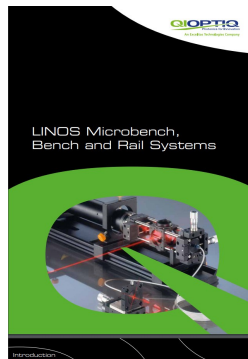
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Opto Mechanics

QIOPTRIX
Photonics for Innovation
An Excelitas Technologies Company

- Microbench
- Nanobench
- Tube System C
- Positioners
- Rail Systems
25 - 95 mm
Carriers
- Mounts & Posts
- Breadboards
- Mounting plates
- Mirror Mounts
Lees Mirror Mounts



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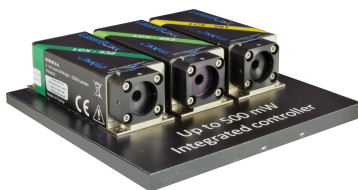
Lasers

- HeNe lasers
- Solid State lasers
- Diode lasers
- Line lasers
- Multi color lasers
- Single longitudinal mode lasers
- Low noise lasers
- High power diodes
- DPSS lasers



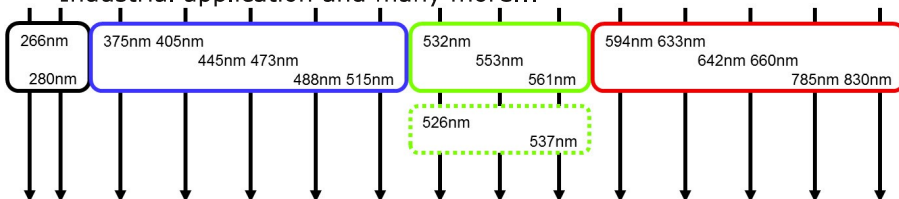
Oxxius
Simply Light

PEGASUS
Linienlaser Diodenlaser Festkörperlaser



Applications:

- Biophotonics
- Measurement & spectroscopy
- Low frequency Raman spectroscopy
- Industrial application and many more...



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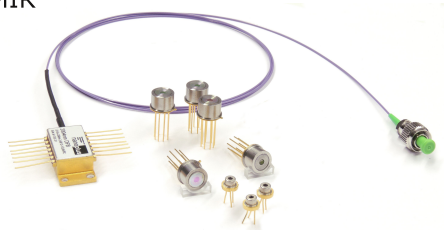
Near-infrared lasers in an entirely new wavelength range

Nanosystems and
Technologies
GmbH

nanoplus

The primary products of nanoplus are single mode DFB lasers in the NIR and MIR spectral range for:

- sensing
- metrology
- spectroscopy
- telecom application



- DBF diode lasers (760-3000 nm)
- DFB ICL;s (3-6 μm)
- Quantum cascade lasers (6-10 μm)

Lightsources: Cold light and LED's

The perfect solution for applications requiring intensive, infrared-free lighting in which the light selectively guided to the object via fibre-optic components



Applications:

- Inspection / surface inspection
- Technical endoscopy
- Machine Vision
- Microscopy



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X-Cite® Fluorescence Illuminators for Microscopy & Analytical Instrumentation

Fluorescence Microscope Light Sources

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Fluorescence Illumination • In Control

X-Cite offers a wide range of lamp and LED light sources and fluorescence illumination systems ideal for a variety of microscopy applications. From our standard X-Cite 120Q model used for routine assays, to our most advanced high-end X-Cite XLED1 and X-Cite TURBO, X-Cite has the right fluorescence illumination system for your application. The X-Cite XYLIS features our newest broadband technology providing LED illumination powerful enough to match the output of a lamp!



How does one choose a microscope light source?



Selecting a fluorescence microscope light source depends on the application. How fast are you acquiring images? How much intensity control do you need for your light source? How fast do you need to shutter the light? What fluorophores are you exciting? Find out which system is most suitable, or contact us for your application.

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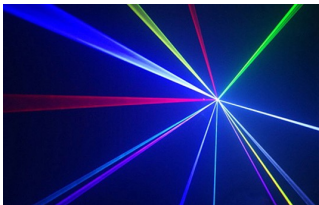
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Dyes and dye lasers still provide the unique combinations of power, pulse length, wavelength and reliability that are required for many applications. Our products are used in research laboratories and medical offices around the world.

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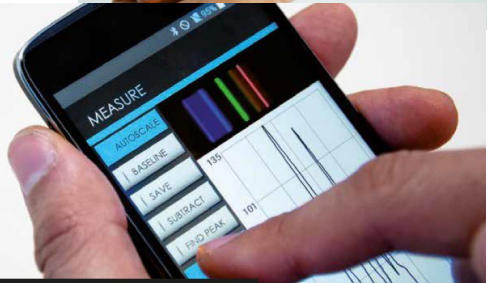


GoSPECTRO

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The Most Mobile Spectrometer

- Compatible with most smartphones and tablets
- Dedicated mobile applications - available on Android and iOS
- Live spectra at video rate



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1. MEASURE

Point to a light source or object with sufficient lighting.
Watch the spectrum on the display.
Press SAVE to record a spectrum.

2. EXPORT

Send spectra by e-mail, to the cloud or to your computer via USB.



3. ANALYSE

Fine peak positions, perform baseline correction and spectral subtraction, compare spectra with databases.

KEY APPLICATIONS GoSPECTRO



GEMOLOGY

Hands-free analysis
Nanometric scale measurements
Gem analysis, storage & data export
No eye fatigue



AUTHENTICATION

Portable reader for anti-counterfeit labels (fluorescent ink)
Direct authentication of products in real time
Easy to use



EDUCATION & RESEARCH

Playful way to learn spectroscopy with a smartphone
Tutorials available
Affordable material



LIGHTING

Light spectrum characterization
Wavelength calibrated measurement
Optical filters characterisation



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Software

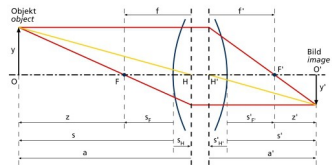
WinLens: Optical Design Software (Free)



[Qioptiq Lens Calculator](#) for Android
Find it in the Google Playstore

[MachVis](#): Machine Vision Lens Selector

Using 4 simple parameters — object size, working distance, sensor size and camera mount — MachVis calculates the necessary optical parameters and then pre-selects all suitable lenses that meet the specifications.



- create on-axis and folded systems
- model lenses, mirrors, prisms, gratings and HOEs
- serious optical engineering features
- ideal for learning and



teaching
technical
optics



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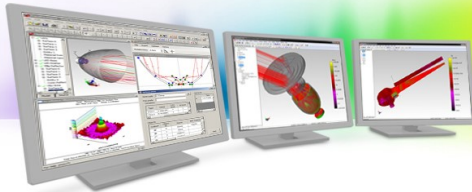
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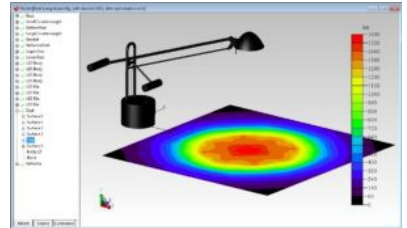


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TRACEPRO®: Illumination design, analyses and Optimization Software

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Vision - Cameras

Applications:

- Aviation
- Automotive
- Microscopy
- Defense
- Measurement
Light Measurement
Machine Vision
- Medical
- Power Distribution
- Unmanned Vehicles

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- Fast Ethernet
- Gigabit Ethernet
- HDMI 1.3
- HD-SDI
- USB 2.0
- ... this is just an extract from
our portfolio

kappa 



Customizable high performance FPGA cameras

Cameras with the stereoscopic eye of the Cameleon, the extensibility and flexibility of the Camelopard and the speed of the Velociraptor!

NEW: T-REX is the ultimate FPGA camera with a very large Xilinx Zynq FPGA and high speed imaging sensor.



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Imaging

Security and construction

Optical recognition

Fabric and tissue production

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Spectroscopy and Raman

Assembly equipment

Semiconductors

Food inspection

Free space optical communication

Biotech Lab instruments

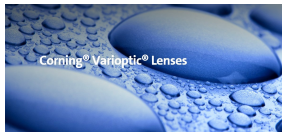
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