

## Looking for German Optics

The starting point:

<http://www.astromeeing.de/>

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German non-professional astronomy images:

<http://photomeeting.de/galleries/thelatest/>

<http://www.starpointing.com/links.html>

<http://www.spiegelteam.de/>

<http://www.astro-fotos.com/home fla.html>

<http://www.astro-fotos.com/ausruestung.html>

<http://www.stern-fan.de/Seiten/frameset.htm>

<http://www.astro-fotos.com/home fla.html>

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German Telescope Sellers:

<http://www.astroshop.eu/>

<http://www.galaxyphoto.de/>

<http://darkforceastro.de/Darkforceastro.de/Home.html>

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Camera equipment manufacture:

<http://www.sbig.com/>

(also part of their Corp)

<http://www.aplegen.com/>

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German Telescope Makers:

Lunt:

<http://www.luntsolarsystems-by-apmtelescopes.com/content.php?catchoice1=99092&choice=99092>

(Lunt's home page)

<http://www.luntsolarsystems-by-apmtelescopes.com/content.php?catchoice1=1&choice=1>

APM with it's German manufactures:

<http://www.apm-telescopes.de/en/index.html>

(Professional)

<http://www.professional-telescopes.net/>

(Apochromatic)

[http://www.apm-apo.com/main\\_e.htm](http://www.apm-apo.com/main_e.htm)

(Sample APO 3,995.00 EUR)

<http://www.apm-telescopes.de/en/telescopes/refracting-telescopes-ota/apochromates/apm-lzos-telescope-apo-refractor-105-650-lw.html>

(Observatory manufacturer)

<http://www.apm-siriuskuppeln.de/>

Bresser Telescopes, Germany:

<http://www.bresserstore.com/>

(and)

<http://www.bresser.com/about/aboutus.html>

Another German Telescope Seller:

<http://www.astroshop.eu/>

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German Equatorial Mount:

[http://www.astropix.com/HTML/I\\_ASTROP/MOUNTS.HTM](http://www.astropix.com/HTML/I_ASTROP/MOUNTS.HTM)

<http://www.astronomycameras.com/blog/archive/20130530/lunar-astrophotography-from-the-south-of-germany/>

German Mount and Fraunhofer:

[http://en.wikipedia.org/wiki/Joseph\\_von\\_Fraunhofer](http://en.wikipedia.org/wiki/Joseph_von_Fraunhofer)

<http://web2009->

[suche.bi.fraunhofer.de/web2009searchapp/search?numberOfResults=10&page=1&language=en&queryString=mirror&lang=en](http://suche.bi.fraunhofer.de/web2009searchapp/search?numberOfResults=10&page=1&language=en&queryString=mirror&lang=en)

<http://www.fraunhofer.de/en/press/research-news/2010/06/ultra-precise-optical-systems-for-space.html>

[http://www.iof.fraunhofer.de/en/we-about-us/20\\_years\\_of\\_experience/multilayer\\_opticsfortheeuvlithography.html](http://www.iof.fraunhofer.de/en/we-about-us/20_years_of_experience/multilayer_opticsfortheeuvlithography.html)

<http://online.wsj.com/articles/behind-germanys-success-story-in-manufacturing-1401473946>

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Mobile Mapping:

Leica Pegasus One Optical Mobile Mapping System:

[http://www.leica-geosystems.us/en/Leica-PegasusOne\\_103551.htm](http://www.leica-geosystems.us/en/Leica-PegasusOne_103551.htm)

Leica Pegasus Two Optical Mobile Mapping System:

[http://www.leica-geosystems.us/en/Leica-PegasusTwo\\_105371.htm](http://www.leica-geosystems.us/en/Leica-PegasusTwo_105371.htm)

Leica Nova Optical Mobile Mapping System:

[http://www.leica-geosystems.us/en/Leica-Nova\\_103587.htm](http://www.leica-geosystems.us/en/Leica-Nova_103587.htm)

Leica Viva Optical Mobile Mapping System:

[http://www.leica-geosystems.us/en/Leica-Viva\\_79268.htm](http://www.leica-geosystems.us/en/Leica-Viva_79268.htm)

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Research at universities, etc:

[http://research-explorer.dfg.de/research\\_explorer.en.html](http://research-explorer.dfg.de/research_explorer.en.html)

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Fermi Dark Matter 570MB camera in Chile:

<https://www.darkenergysurvey.org/>

<http://www.darkenergysurvey.org/dark-energy-camera-mosaic/>

Fermi Video (which we saw at Fermi!)

[http://www.fnal.gov/pub/presspass/press\\_releases/2013/DES-2013-images.html](http://www.fnal.gov/pub/presspass/press_releases/2013/DES-2013-images.html)

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ESO European Southern Observatory

(Germany was founding member, 10-05-1962)

<http://www.eso.org/public/>

ALMA radio scopes, Atacama Large Millimeter Array

<http://www.eso.org/public/teles-instr/alma/>

Telescope technology

<http://www.eso.org/public/teles-instr/technology/>

Very Large Telescope VLT

<http://www.eso.org/public/teles-instr/paranal/>

Our Galaxy's Black Hole photo

<http://www.eso.org/public/news/eso0330/>

ESO top 10 List

<http://www.eso.org/public/science/top10/>

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Effelsberg Radio Telescope, Bad Münstereifel, district of Euskirchen, North Rhine-Westphalia, Germany

[http://en.wikipedia.org/wiki/Effelsberg\\_100-m\\_Radio\\_Telescope](http://en.wikipedia.org/wiki/Effelsberg_100-m_Radio_Telescope)

Trouble with the largest German Radio Telescope:

<http://www.scientificamerican.com/article/world-s-largest-radio-telescope-abandoned-by-germany/>

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German Companies "Search" Links:

<http://www.research-in-germany.de/dachportal/en/Research-Areas-A-Z/Optical-Technologies.html>

Second German Companies "Search" Links: (search with "Optics")

[http://www.sachon-exportadressbuch.de/cl/sid.php?PHPSESSID=d7a7e40a9bd68a95ea3185a836f02922&f\\_1\\_ang=eng](http://www.sachon-exportadressbuch.de/cl/sid.php?PHPSESSID=d7a7e40a9bd68a95ea3185a836f02922&f_1_ang=eng)

(list of companies)

<http://www.spectaris.de/english/members/a-z.html>

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### German Companies

<http://www.oceanoptics.eu/html/index.php>

<http://www.rodenstock.com/rodb2c/uk/en/index.html>

<http://www.edmundoptics.com/?&pModal=false&site=US&countryid=232>

<http://www.azooptics.com/SupplierByCountry.aspx?CountryID=80>

Leica:

<http://us.leica-camera.com/>

(Good historic photos!)

<http://us.leica-camera.com/World-of-Leica/100-years-of-Leica-photography/Leica-100-years/Iconic-photos>

Nikon GmbH:

[http://www.nikon.de/de\\_DE/](http://www.nikon.de/de_DE/)

(Microscopes and Optics)

<http://www.nikoninstruments.com/>

(Cameras)

<http://www.nikonusa.com/en/index.page>

(Sport Optics)

<http://www.nikonportoptics.com/en/index.page>

Point Grey, CCT Cameras:

<http://www.ptgrey.com>

(Point Grey camera photo shows Venus on Sun 2012)

[http://www.avertedimagination.com/img\\_pages/transitofvenus.html](http://www.avertedimagination.com/img_pages/transitofvenus.html)

(2nd Point Grey photo shows camera used on 8" telescope)

<http://www.ptgrey.com/news/casestudies/details.asp?articleID=514>

Zeiss:

[http://www.zeiss.de/corporate/de\\_de/home.html](http://www.zeiss.de/corporate/de_de/home.html)

[http://www.zeiss.com/corporate/en\\_us/home.html](http://www.zeiss.com/corporate/en_us/home.html) (in English)

(Planetariums)

[http://www.zeiss.com/planetariums/en\\_us/home.html](http://www.zeiss.com/planetariums/en_us/home.html)

(Gratings)

[http://www.zeiss.com/microscopy/en\\_us/products/gratings.html](http://www.zeiss.com/microscopy/en_us/products/gratings.html)

(Spectroscopes)

[http://www.zeiss.com/microscopy/en\\_us/products/spectrometer-modules.html](http://www.zeiss.com/microscopy/en_us/products/spectrometer-modules.html)

### Premium Suppliers

A.KRÜSS Optronic GmbH <http://www.kruess.com/laboratory/>

Carl Zeiss Microscopy GmbH [http://www.zeiss.com/microscopy/en\\_de/home.html](http://www.zeiss.com/microscopy/en_de/home.html)

CDA GmbH <http://www.cda.de/>

Coherent (Deutschland) GmbH <http://www.coherent.de/>

DILAS Diodenlaser GmbH <http://www.coherent.de/>

Gigahertz-Optik GmbH <http://gigahertz-optik.com/>

Hamamatsu Photonics Europe <http://www.hamamatsu.com/eu/en/index.html>

Hamamatsu Photonics Europe spectrometers

<http://www.hamamatsu.com/eu/en/4016.html>

Hellma GmbH & Co. Kg <http://www.hellma.com/group/964/en/home.html>

L.O.T.-Oriol GmbH & Co. Kg <http://www.lot-oriel.com/> and <http://www.lot-qd.de/uk/en/>

SBIG cooled cameras for Astronomy <http://www.lot-qd.de/uk/en/home/cooled-ccd-cameras-astronomy/>

OWIS GmbH <http://www.owis.eu/> or <http://www.owis.eu/en/home/>

polyoptics GmbH <http://www.polyoptics.de/site/en/>

Qubig GmbH <http://www.qubig.com/>

Rofin laser <http://www.rofin.com/>

Springer - Science and Technology Publishers, Astronomy

<http://www.springer.com/astronomy?SGWID=0-123-0-0-0>

TRIOPTICS GmbH <http://www.trioptics.com/>

WITec GmbH <http://www.witec.de/>

### And More German Companies!!!

3D Micromac

A.KRÜSS Optronic GmbH

Accel Instruments GmbH

Advanced Microoptic Systems [ams] GmbH

Advanced Optics Solutions GmbH

AIXTRON AG

Alltec GmbH  
ALPHA LASER GmbH  
ALPHALAS GmbH  
AMICRA Microtechnologies  
AMS Technologies  
APE Angewandte Physik & Elektronik GmbH  
APE GmbH  
ARGES GmbH  
Arges GmbH  
art photonics GmbH  
Artifex Engineering  
ATL Lasertechnik GmbH  
attocube systems AG  
atumLaser  
autronic-MELCHERS GmbH  
B&M Optik GmbH  
B&M Optik GmbH  
Basler AG  
Becker & Hickl GmbH  
Berliner Glas KGaA Herbert Kubatz GmbH & Co.  
Bernhard Halle Nachfl. GmbH  
BESTEC GmbH  
Bestec GmbH  
biolitec AG  
Carl Zeiss Microscopy GmbH  
CDA GmbH  
CeramOptec GmbH  
CINOGY Technologies GmbH  
Coherent (Deutschland) GmbH  
Cosyco GmbH  
Creative Laser Production  
CryLaS GmbH  
Crystal GmbH  
Cube Optics AG  
DILAS Diodenlaser GmbH  
DIOPTIC GmbH  
Docter Optics  
Docter Optics, Inc.  
DOEHRER Elektrooptik  
Dr. Brueckner Messtechnik  
Dr. Heinrich Schneider Messtechnik GmbH  
DVC Digitalvideo Computing GmbH  
Dynamic Micro Systems  
eagleyard Photonics GmbH  
Eagleyard Photonics GmbH  
EdgeWave GmbH

Edmund Optics GmbH  
EHD Imaging GmbH  
Electrovac Curamik Electronics GmbH  
ELS Elektronik Laser System  
ELS Elektronik Laser System GmbH  
EPIGAP Optoelektronik GmbH  
eurolaser GmbH  
EUROMICRON GmbH  
EuroPhoton GmbH  
F&K Delvotec Inc.  
FAST ComTec  
Fast Comtec  
FEE GmbH  
Feith Sensor to Image GmbH  
Femto GmbH  
FEMTO Messtechnik GmbH  
Ferrotec GmbH  
Fibertech Optica Inc.  
Fibotec Fiberoptics GmbH  
ficonTEC GmbH  
Fietje Sensor & Optoelektronik GmbH  
fineoptix GmbH  
Framos Electronic Vertriebs GmbH  
Frankfurt Laser Co.  
Frankfurt Laser Co.  
Frankfurt Laser Company  
Fresnel Optics GmbH  
Fries Research & Technology GmbH  
Fries Research & Technology GmbH (FRT)  
FRT, Fries Research & Technology GmbH  
GD Optical Competence GmbH  
GFMesstechnik GmbH  
ghip systems GmbH  
Gigahertz-Optik GmbH  
greateyes GmbH  
GWU Lasertechnik Vertriebsges.mBH  
GWU-Lasertechnik GmbH  
H2B Photonics  
Halcyonics GmbH  
Hamamatsu Photonics Europe  
HEDRICH Vacuum Systems  
Helion GmbH  
Hellma GmbH & Co. Kg  
Heraeus Noblelight  
Heraeus Noblelight GmbH  
Highyag Lasertechnologie GmbH

HOLOEYE Photonics AG  
HUBER Diffractionstechnik GmbH & Co. KG  
Huettinger Electronic Inc.  
Ib Laser Ag  
iC-Haus GmbH  
IDS Imaging Development Systems GmbH  
Innolight GmbH  
Innolume GmbH  
Instrument Systems GmbH  
JENOPTIK Laser GmbH  
JENOPTIK Optical Systems GmbH  
KLASTECH GmbH  
L.O.T.-Oriol GmbH & Co. Kg  
Las-Cad GmbH  
LASNIX  
Layertec GmbH  
Leica Camera AG  
Leica Microsystems GmbH  
Leica Science Lab  
Leybold Optics GmbH  
Lg Laser Technologies GmbH  
LightGuideOptics Germany GmbH  
Lios Technology GmbH - Linear Optical Sensors  
Lisa Laser Products Ohg  
LMT Lichtmesstechnik GmbH Berlin  
Lt Ultra-Precision  
Ltb Lasertechnik Berlin GmbH  
Lumberg UK Ltd  
LUMERA LASER GmbH  
Mahr Federal  
Manfred Throl Optische Systeme  
Mateck GmbH  
MEL Mikroelektronik GmbH  
Menlo Systems GmbH  
MenloSystems  
MergeOptics GmbH  
MetroLux GmbH  
MIB  
Micro Resist Technology GmbH  
Microtec  
Mikropack GmbH  
Moeller-Wedel Optical GmbH  
MolTech GmbH  
MRC Systems GmbH  
Mso Jena GmbH  
MVTec Software GmbH



Nanofilm Technologie GmbH  
Nanolayers - Optical Coatings & Technologies  
NanoPhotonics AG  
nanoplus Nanosystems and Technologies GmbH  
New Electronic Technology (NET) GmbH  
OASYS GmbH  
OEC AG  
OECA  
Oerlikon Leybold Vacuum  
Olympus Soft Imaging Solutions  
omt  
omt - optische messtechnik gmbh  
Opsira GmbH  
optek-Danulat GmbH  
optek-Danulat, Inc.  
Optenso  
OPTI-KEN  
Optical Beam Handling Systems  
Optikkomponenten & Kristalle  
OPTIKRON GmbH  
Optocomponents GmbH  
Optocraft GmbH  
Optocraft GmbH  
Optolab Microsystems GmbH  
OptoPolymer  
Optotech Optical Machinery Inc.  
OptoTech Optikmaschinen GmbH  
Optris GmbH  
Optronis GmbH  
Osram Opto Semiconductors GmbH  
OWIS GmbH  
Oxford Plasma Technology  
Photonic Sense GmbH  
Phototherm Dr. Petry GmbH  
Physimetron Elektronische Messtechnik  
pi4\_robotics GmbH  
Picoquant GmbH  
Piezosystem Jena  
Plan Optik AG  
Plasus  
Plein & Baus GmbH  
PMDTechnologies GmbH  
POG Precision Optic Gera GmbH  
polyoptics GmbH  
Polytec GmbH  
Prazisions Glas & Optik GmbH

Präzisions Glas & Optik GmbH  
PRC Krochmann  
Precitec, Inc.  
Prenovatec GmbH  
Pridat Mikro- und Feinoptik GmbH  
Primes GmbH  
Prinz Optics GmbH  
Professional Lamps Inc  
Prometec GmbH  
prophoton-x  
Proscan Elektronische Systeme GmbH  
Proxitronic  
Proxitronic Funk GmbH & Co. KG  
ProxiVision GmbH  
Qioptiq  
Qubig GmbH  
Raith GmbH  
Ray Technologies GmbH  
RAYLASE AG  
Reichmann Feinoptik GmbH  
Reinaert Electronics  
Rennsteig Werkzeuge GmbH  
Rofin  
Rowiak GmbH  
RT Industrial  
Scanlab Ag  
Schäfter + Kirchhoff GmbH  
Schmidt + Haensch GmbH  
Schneider GmbH + Co. Kg  
Schott Lithotec Ag, Sales Office  
Sensovation Ag  
Sentech Instruments  
Sigma Laser GmbH  
Silicann Technologies GmbH  
Silicon Software GmbH  
Sill Optics GmbH & Co Kg  
SIOS Messtechnik GmbH  
Soliton Laser- und Messtechnik GmbH  
SPECTRO Analytical Instruments  
SPECTRO Analytical Instruments GmbH  
SPHERON-VR AG  
Springer - Science and Technology Publishers  
Steinmeyer  
Surface Concept GmbH  
SVS-VISTEK GmbH  
tec5 AG

Termotek AG  
Three-Five Epitaxial Services AG (TESAG)  
Tintometer Ltd.  
TOPAG Lasertechnik GmbH  
TRIOPTICS GmbH  
TRUMPF Laser Division  
U-L-M photonics  
u2t Photonics  
VDS Vosskühler GmbH,  
ViALUX Messtechnik + Bildverarbeitung GmbH  
ViaOptic GmbH  
Videor Technical  
Vision Components GmbH  
Vision Crystal Technology AG  
VITRON GmbH  
VM-TIM  
WITec GmbH  
Xiton Photonics GmbH  
Z-LASER Optoelektronik GmbH  
ZETT Optics  
ZEUTEC Opto-Elektronik GmbH  
ZMD AG