



July 2020 Newsletter

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ALRAD Instruments Limited is celebrating it's 50th Anniversary. Set up in 1970, ALRAD Instruments has been serving the Industrial, Scientific, Medical and Instrumentation markets for five decades and has a wealth of experience in all aspects of Imaging, Photonics, Thermal and Medical sectors.

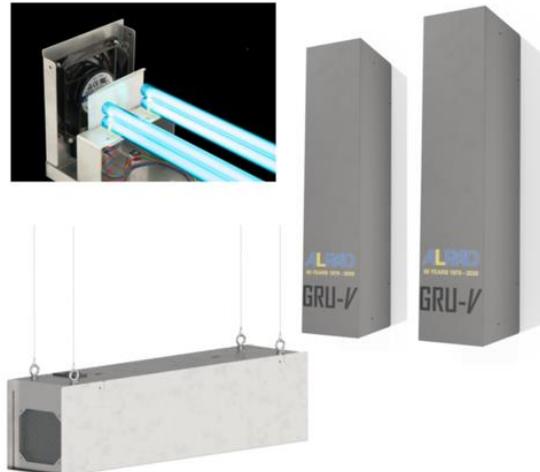
Launching our New On-Line Shop and marking a new milestone in ALRAD Instrument's 50th Anniversary year

As we are getting used to remote working in these unprecedented times we have decided to bring forward our plans for on-line purchasing of sample and low volume quantities of our popular items. Following a simple registration on our website our customers can set up an account and once approved you will be able to see pricing and purchase items which are in our On-line Shop. Starting with a few of the most popular products including medical systems, we will be expanding the number of items that can be purchased online. This system is designed to help those that want quick access to sample or low volumes of items - of course you can still push the 'Request a Quote' button for a formal quote for single and volume quantities and that will be provided in the usual way. We also have a special offer section that includes our high sellers and all offer items.

[ALRAD Home Page](#)

Powerful UV-C Air Disinfection Systems

Fighting Covid-19 and other harmful pathogens with Ultraviolet Light



ALRAD brings a new series of UV-C Air Disinfection systems to the market, including the GRU-V® UV-C wall mounted air purifier, GRUV-LB® ceiling mounted air purifier, UV Torpedo® (in-duct) and a cabinet UV disinfection system suitable for face mask and other small item disinfection and sterilisation.

UV-C Light is a proven technology utilised to help reduce and control the spread of infection. At approx. 250-260 nanometres wavelength UV-C light resonates and disrupts DNA/RNA in cell nuclei and viruses, effectively destroying them. By applying this Germicidal UV-C Light the air purifiers fight Covid-19, destroy airborne viruses, Coronavirus, Influenza, MRSA, Tuberculosis, E-Coli, bacteria, germs, moulds and 99.9% of microorganisms, additionally providing cleaner and improved air quality.

We provide various UV Air Disinfection solutions for improving the indoor air quality of residential, commercial, institutional and medical environments.

Features:

- Dramatically improves indoor air quality
- Destroys thousands of airborne contaminants such as viruses, bacteria, mould, chemicals, VOCs and odours
- Improves energy efficiency and reduce maintenance costs by maintaining clean evaporator coils, free from mould and other microbial growth
- Reduces absenteeism and building related illnesses
- Reduces airborne infection rates.

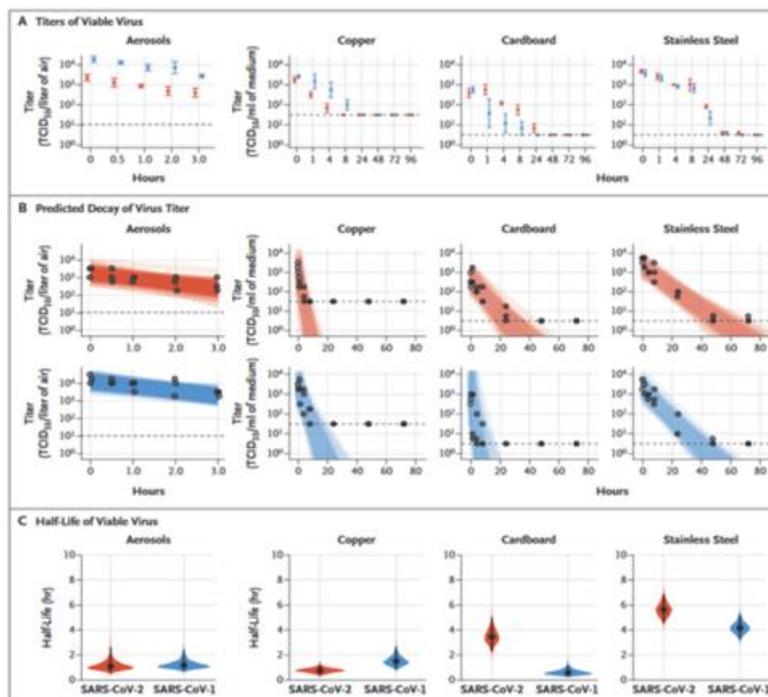
The GRU-V® Medical UV Light Air Treatment device is a wall-mounted unit (can also be suspended horizontally) that uses ultraviolet germicidal radiation to destroy airborne viruses and germs, providing effective air disinfection and sterilization. The GRU-V® Air Treatment device, is designed to run continuously, achieving optimum circulation of air within a room. The GRU-V®

accommodates two powerful germicidal UV Light Lamps with rated lifetime of 8,000 hours (approximately one year of continuous use). GRU-V® Medical Air Purifiers are manufactured with a rigid stainless steel construction, supplied with shatterproof UVC lamps and do not produce any ozone, harmful particles or odours.

COVID19

Our Air disinfection systems are designed to destroy 99.99% of all viruses passing through them. The systems do NOT collect viruses in filters. We don't use filters. (If you need to remove dust from the air you need a filter).

CDC are aware of growing evidence of airborne Covid19. The chart below shows data on survival of Covid19 in air and on various surfaces. One or more changes of air in a room per hour will make a huge difference:



[ALRAD UV-C Air Disinfection](#)

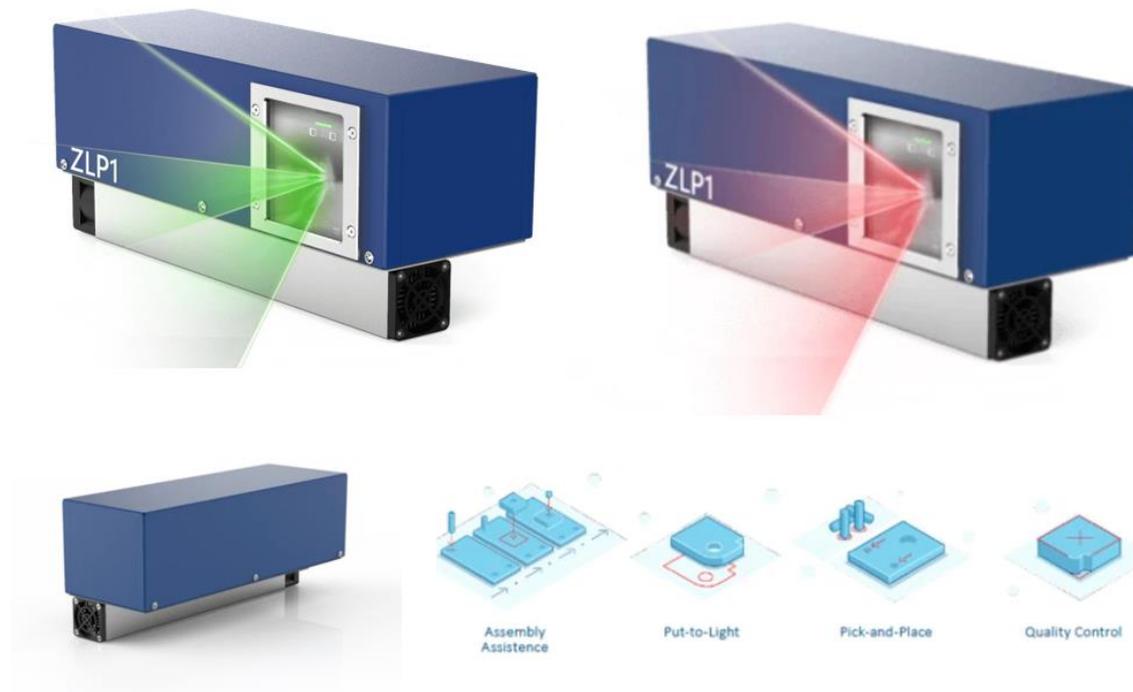
ZLP1 Compact, Powerful and easy to use Laser Projector

ALRAD Instruments are pleased to promote the ZLP1, a cost-effective entry to laser projection. The ZLP1 is the smallest laser projector in the Z-LASER ZLP family and is aimed at 2D and 3D applications like pick-and-place, logistics, and workstations.

Enlarge and optimize your production or workflow with this easy to use laser projection system. ZLP1 is eye-safe (laser class 2M) and covers working fields from 1.0m x 1.0m up to 3.5m x 3.5m. Possible working distances range from 1.0m to 3.0m.

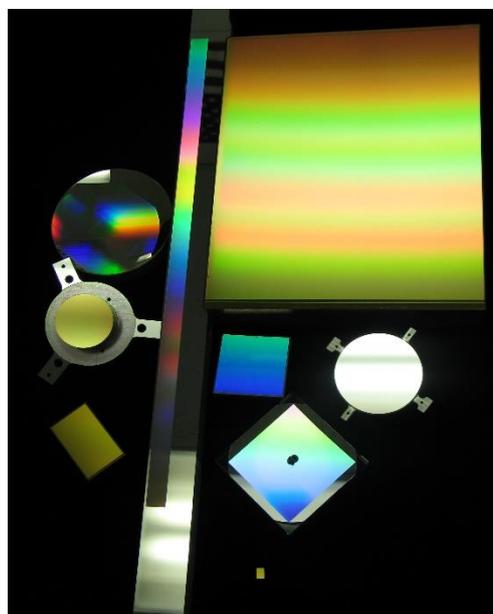
The dedicated software ZLP-Suite provides an intuitive software interface with many customisable options, as a result customers can adapt the settings according to their specific application.

Furthermore, ZLP-Suite can be upgraded with additional software modules. Thanks to its numerous connectivity options the laser projector can be operated through various software interfaces such as C++, C#, Python or even with Microsoft Excel and Microsoft PowerPoint.



ZLP1 Laser Projector

Diffraction Gratings for a variety of applications



Following a recent expansion into larger facilities, which has provided an enhanced manufacturing and test capability, Bach Research continue to manufacture and supply a comprehensive range of ruled master and replica diffraction gratings, both plane and curved, for a variety of applications, eg: **Laboratory Instrumentation** - monochromators and spectrophotometers, where substrates are typically float glass or Pyrex.

High Power Lasers - used as both intracavity components and output couplers – where substrates are typically copper, stainless steel or invar. Echelles and Transmission Gratings also supplied.

[Diffraction Gratings](#)

The New LP8000 Germanium DLC coated LWIR protective windows from MidOpt, withstanding harsh environments



New from ALRAD Instruments is the MidOpt LP8000 Germanium DLC Coated LWIR Protective Window range.

The LP8000 Germanium Window has a DLC (diamond-like carbon) coating that is abrasion-resistant and can withstand harsh environments. It has an anti-reflection coating to maximize transmission for vision systems used in thermal imaging, has a 7.5–12.5 micron useful range and is an ideal protective window for thermal camera enclosures. The LP8000 is also useful for imaging in the LWIR (long-wave infrared).

Key features:

- Durable surface to withstand harsh environments
- Resistant to corrosion, chemicals, alkalis and most acids
- Protects against abrasive airborne particles and salt water
- Custom sizes available, up to 101mm in diameter
- Coated with a durable multi-layer anti-reflection coating
- Available with a DLC (diamond-like carbon) coating
- Transmits wavelengths in the LWIR

For more information on this or the complete range of MidOpt filters at ALRAD Instruments, please see the link below.

[LP8000 Germanium DLC Coated LWIR Protective Windows](#)

Enjoying the Night Sky with The Imaging Source Astronomy Camera Range



In 2007, The Imaging Source released a series of cameras, designed specifically to meet the needs of amateur astro-photographers. The new astronomy cameras leverage the years of experience gathered in the aforementioned fields, to bring amateur astro-photographers highly affordable, robust and stable astronomy cameras for their telescopes. You can see the range on our website at the following link:

[The Imaging Source Astronomy Camera range](#)

APPLICATION NOTE: Remote viewing of Analogue Astronomy Cameras via Video to USB 2.0 Converters

Sitting outside under the stars in the Summer dabbling in a bit of astrophotography is one of our favourite pastimes, however, when the late autumn and winter nights arrive it's not so comfortable - why not experiment with an analogue camera and Video To USB 2 converter, the combination allows you to view images from the comfort of your armchair. This combination can of course be used for any remote viewing application.

Our range of Watec analogue cameras are suitable for a wide range of video applications and are available in housed, miniature and board level versions.

Three models in particular are suitable for Astro Imaging, they are the WAT9010HX, WAT9010HX-RC and the WAT-902H2 models, please see the website link below for more details





Even though digital machine vision cameras continue to grow in popularity, there are still an enormous number of analog video sources. Using a video-to-USB converter, analogue video sources become usable in a digital environment. The DFG/USB2pro converts analog video signals (PAL, NTSC, CCIR, EIA) into uncompressed image data streams, and supports digital and analog cameras in color and in monochrome. The model DFG/USB2aud additionally converts analogue audio signals.

- Video-to-USB 2.0 converter
- Video standards: PAL/NTSC, RS-170/CCIR
- RCA (Cinch): 1 input
- Y/C (S-Video): 1 input
- USB 2.0, Type B
- Manufactured by The Imaging Source
- Windows software included

[Analogue Cameras](#)

[Video to USB Converters](#)



CONTACT US AT SALES@ALRAD.CO.UK or on 01635 30345 FOR MORE DETAILS, PRODUCTS & OFFERS!

ALRAD - CORONAVIRUS CONTINGENCY PLAN WE ARE OPEN FOR BUSINESS

ALRAD has implemented a process that allows us to operate our full services remotely, with minimal impact to our customers and working safely in line with the government advised isolation protocol.

All members of our support team have the ability to work from home with full access to the internet for normal company operation and remote meetings. We are also working closely with our logistics partners to minimise any disruption to deliveries.

In addition to our office number (+44 (0)1635 30345) , our sales team members can be contacted as below:

+44(0)7775 592517 (Ian - Imaging, Electronics & Photonics)
+44 (0)7775 592516 (Raf - Imaging)
+44(0)7775 592518 (Dave - Imaging and Electronics)
+44 (0)7775 592519 (Julian - Medical Systems, Imaging, Electronics)
+44 (0)7557 562004 (Tony- Photonics)

Our presentation 'Out of Sight - Imaging beyond the Visible Spectrum' is still live on the UKIVA Machine Vision Conference site - alternatively you can watch it on the following link on our website:

[ALRAD Presentation 'Out of Sight - Imaging beyond the Visible Spectrum'](#)

