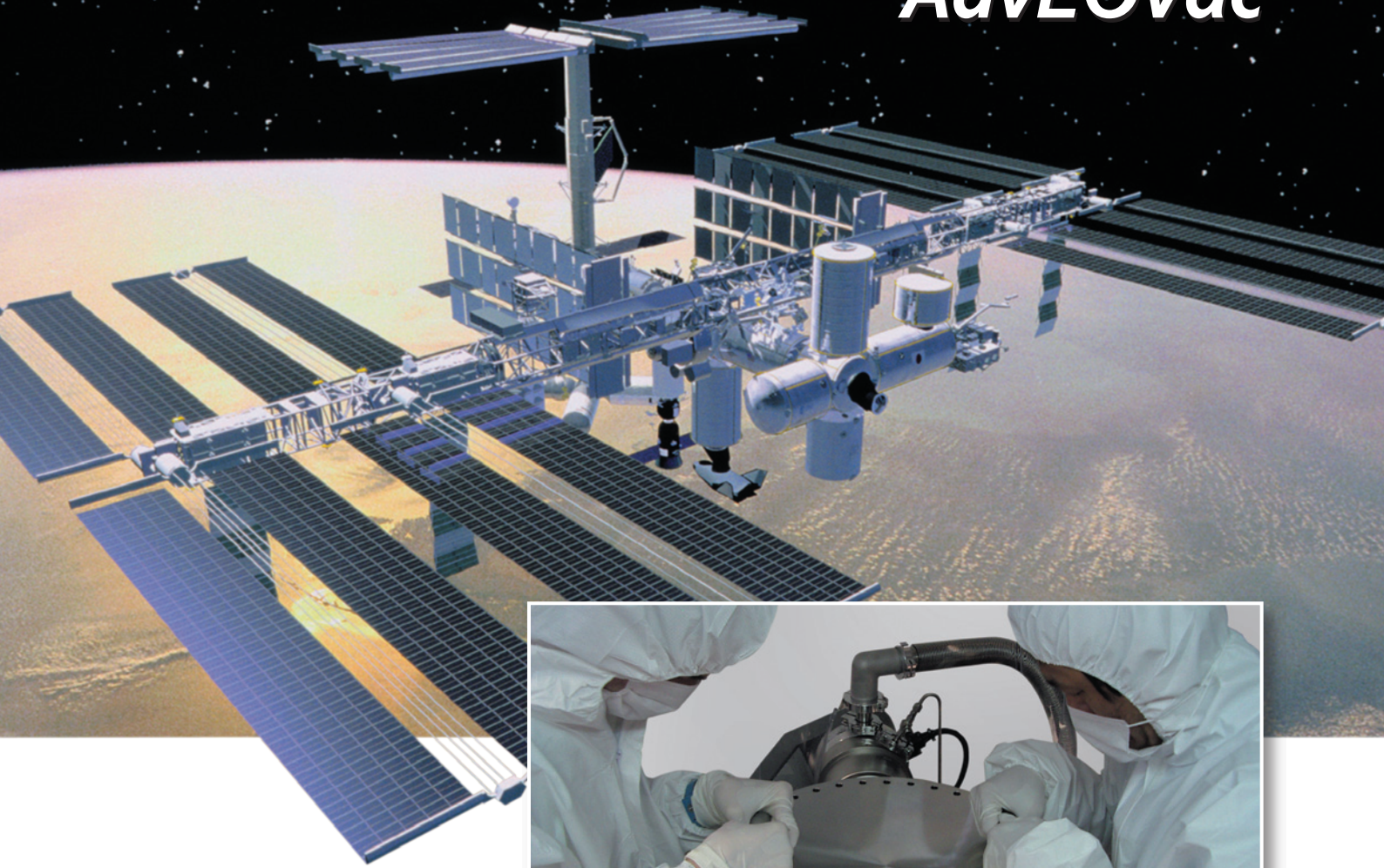


AdvEOVac



→ AdvEOVac

Measuring bench for opto-electronic components for vacuum applications

Opto-electronic components offer particularly high levels of performance but they require rigorous validation before they can be used in harsh environments. In applications under vacuum, their qualification demands working tests over long periods in a perfectly controlled environment.

AdvEOTec has developed special bench for its customers: **AdvEOVac**. It can be used to measure electronic and optical components working under ultra high vacuum, that are subject to wide temperature conditions.

AdvEOVac

RISK MANAGEMENT FOR SPACE AND VACUUM APPLICATIONS

AdvEOVac is a unique testing system intended for the qualification and lifetime testing of optical and electronic components for space and vacuum scientific instruments like the synchrotron. AdvEOVac is a non-destructive test system that is used to assess a series of components that are lifetested over periods of several months.



Due to its coding and heating interfaces, AdvEOVac controls the temperature of components under ultra high vacuum over an extended range. The many optical and electrical ports can be used to accurately control the components and sub-assemblies throughout the measuring campaigns and the parameters being tested are continuously monitored. All of the working parameters, performances and failures are regularly analysed during the test by our experienced teams in close collaboration with our customers.

Lasers, LED's, photodetectors,... AdvEOVac qualifies a wide variety of free or guided optics units and components. AdvEOVac is equipped with a mass spectrometer in order to monitor the level of contaminants and guarantee the optical performances.

In addition to opto-electronic components, AdvEOVac is used to evaluate microwave and RF devices.

SPECIFICATIONS

Vacuum equipment	<ul style="list-style-type: none"> • Down to 10⁻⁹ mbar • Residual contaminants monitoring: Integrated Mass Spectrometer
Packages	<ul style="list-style-type: none"> • Catering for many different casings and interfaces • Multicomponent capabilities • Free space and pigtailed optics capabilities • Optical and Electric flanges
Thermal management under vacuum	<ul style="list-style-type: none"> • Extended component temperature range (heating and cooling interfaces)
Life test	<ul style="list-style-type: none"> • Real time optical and electrical parameter monitoring • 5000 hours and more
Clean room environment	<ul style="list-style-type: none"> • Class 100
Service	<ul style="list-style-type: none"> • Highly reliable service: already qualified for many types of components

AdvEOTec is specialized in measurement of optoelectronics and in optoelectronics for measurements. Its activities are mainly oriented to demanding environments. For many years now, AdvEOTec has been providing

advanced systems and services to various industrial sectors such as telecommunications, defence, space, aeronautics, energy, biotechnologies and transportation.

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