

UNIBLITZ

Solutions Guide

Built by the best, for the best.

Many claim the reliability of their products, but few guarantee it: Uniblitz Shutter Systems are built with reliability and performance in mind, from concept to production. The DSS series shutters, for example, are guaranteed to operate for millions of cycles. Rigorous testing procedures ensure our devices are able to withstand a wide range of conditions, from the freezing temperatures of the Arctic to the vacuum of outer space.

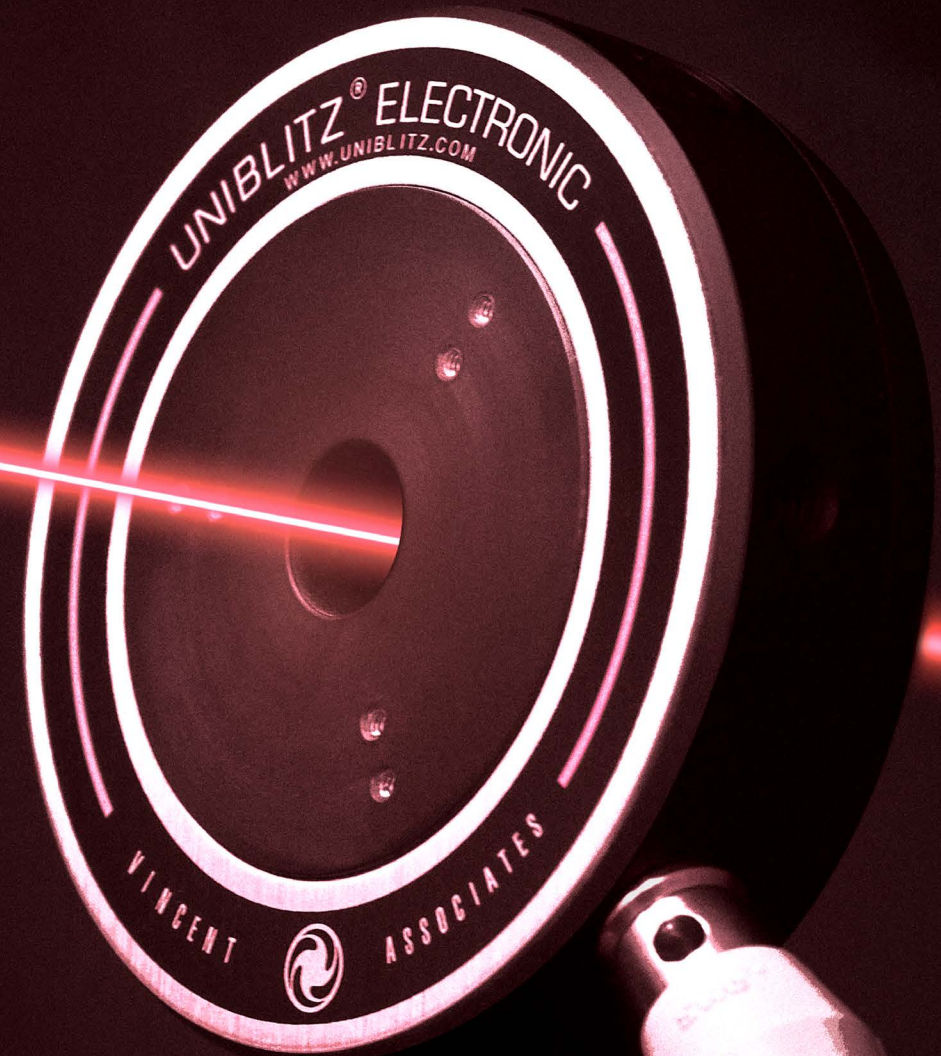
- ⊗ RoHS Compliant
- ⊗ Select products are CE/UL/CSA certified.

A commitment to quality in design and manufacturing is clear in all Uniblitz products.

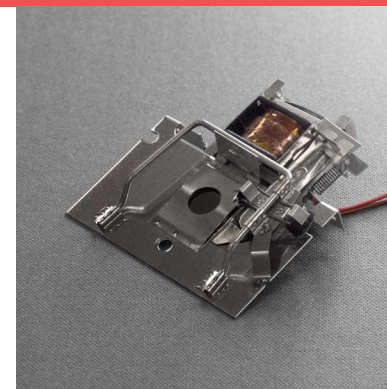


Recommended Shutters

- LS Series
- TS Series



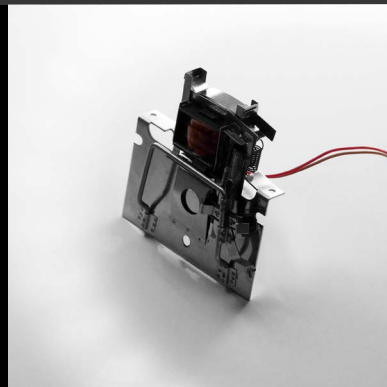
Shuttering solutions for Laser Systems



Uniblitz laser shutters are designed to enable pulse selection and can accommodate high-speed laser switching. Their response times are unmatched: Uniblitz laser shutters can provide opening times in the microsecond range as compared to the millisecond range of devices with larger apertures.

Shuttering solutions for X-ray Imaging

Shutter devices for X-ray imaging systems are designed with application-specific attributes, such as blade material and/or vacuum compatibility. Uniblitz shutter systems are designed to achieve tenth-value X-ray extinction at 30 keV (standard), which is suitable for high-speed X-ray switching.



Recommended Shutters

- > XRS25S
- > XRS14S
- > XRS6S



Image courtesy of Nevit Dilmen.

Shuttering solutions for Infrared Imaging

The reliability of a shutter device is crucial in infrared imaging applications, and Uniblitz shutters provide this reliability. Additionally, total light extinction from the shutter is needed for NUC (Non-Uniformity Correction) calculations in thermal imaging devices, where calibration to a black reference is necessary.

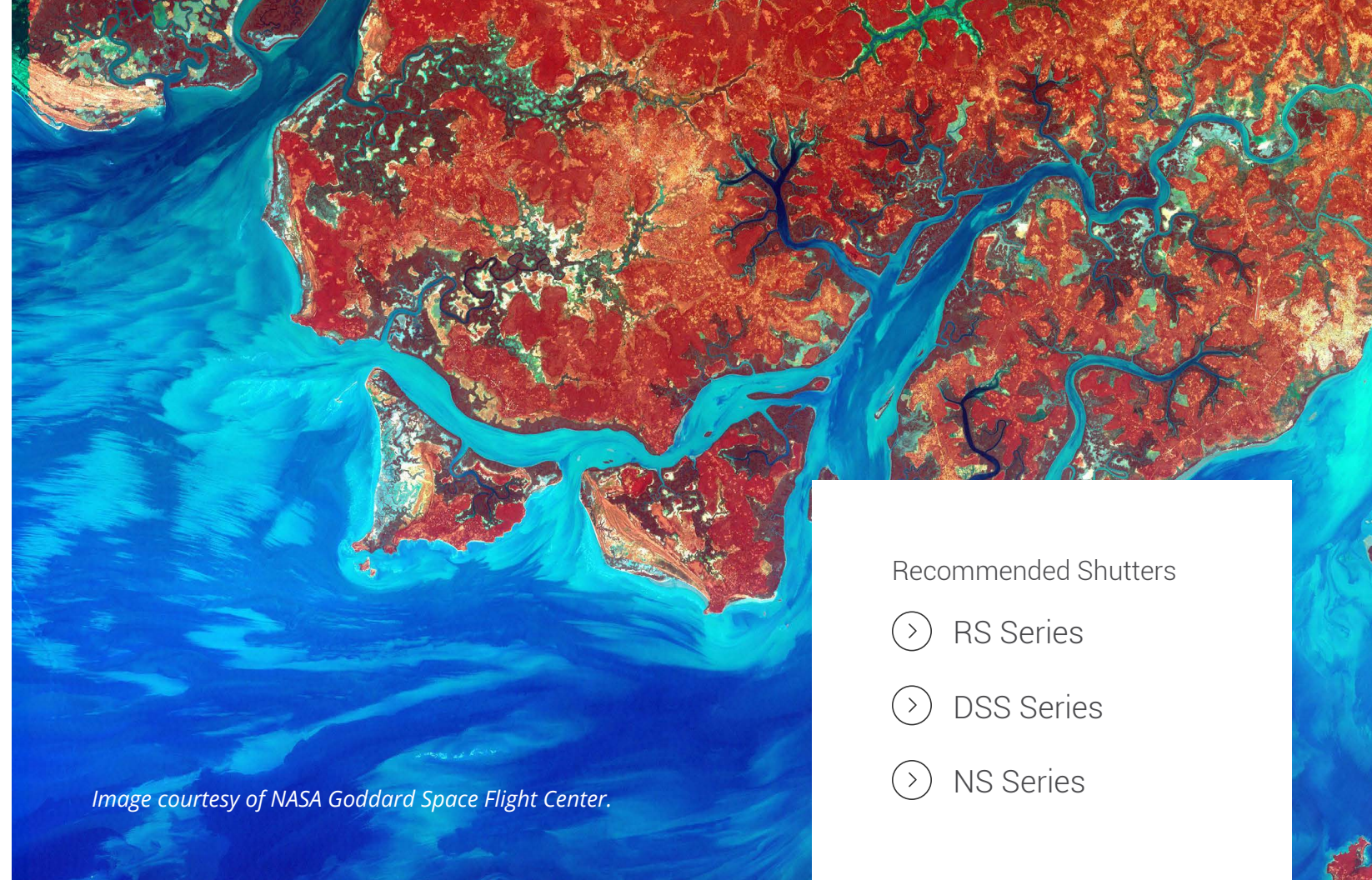
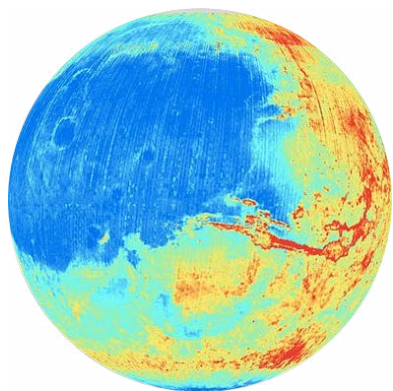


Image courtesy of NASA Goddard Space Flight Center.

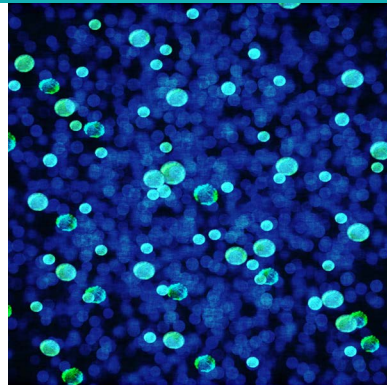
Recommended Shutters

- > RS Series
- > DSS Series
- > NS Series

Shuttering solutions for

Microscopy Applications

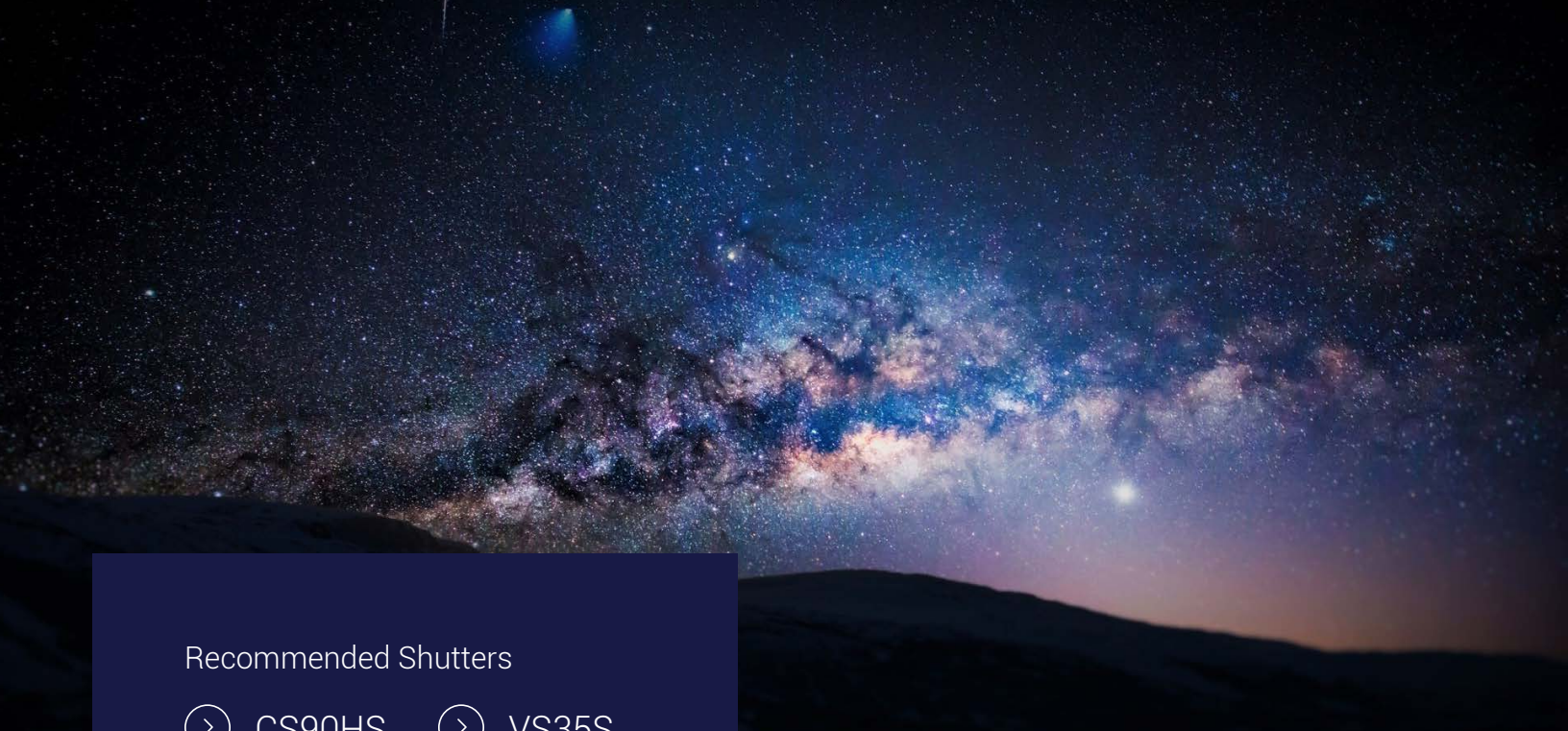
In applications where the control of a microscope's light source(s) is required, certain Uniblitz shutter devices can be utilized for fast, precise switching. Such sources may include fluorescence and/or transmitted (bright-field) light.



Uniblitz offers mounting solutions for brands such as Olympus, Zeiss, Nikon, and Leica.

Recommended Shutters

- VS Series
- CS Series



Recommended Shutters

> CS90HS > VS35S

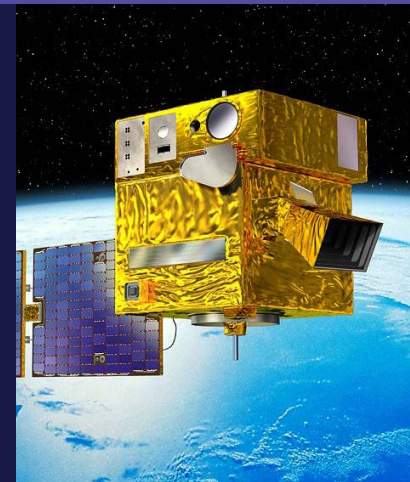
> NS65B > NS45B

> CS65S > CS45S

Large-aperture Uniblitz shutter devices are the most reliable of their type.

Shuttering solutions for

Astronomy Applications



PICARD satellite utilizing the Uniblitz VS35 35mm shutter. *Image courtesy of CNES.*

The large-scale telescopes that explore outer space require extremely reliable components for precise imaging. Large-aperture shutter devices by Uniblitz allow for the accurate exposure control of CCD imagers used within telescopes, both space-borne and on Earth. Capturing an image of space often requires long exposures: Uniblitz large-aperture shutter systems are available in bi-stable configurations that do not generate heat when held open for long periods of time.

Shuttering solutions for Imaging Devices & Cameras

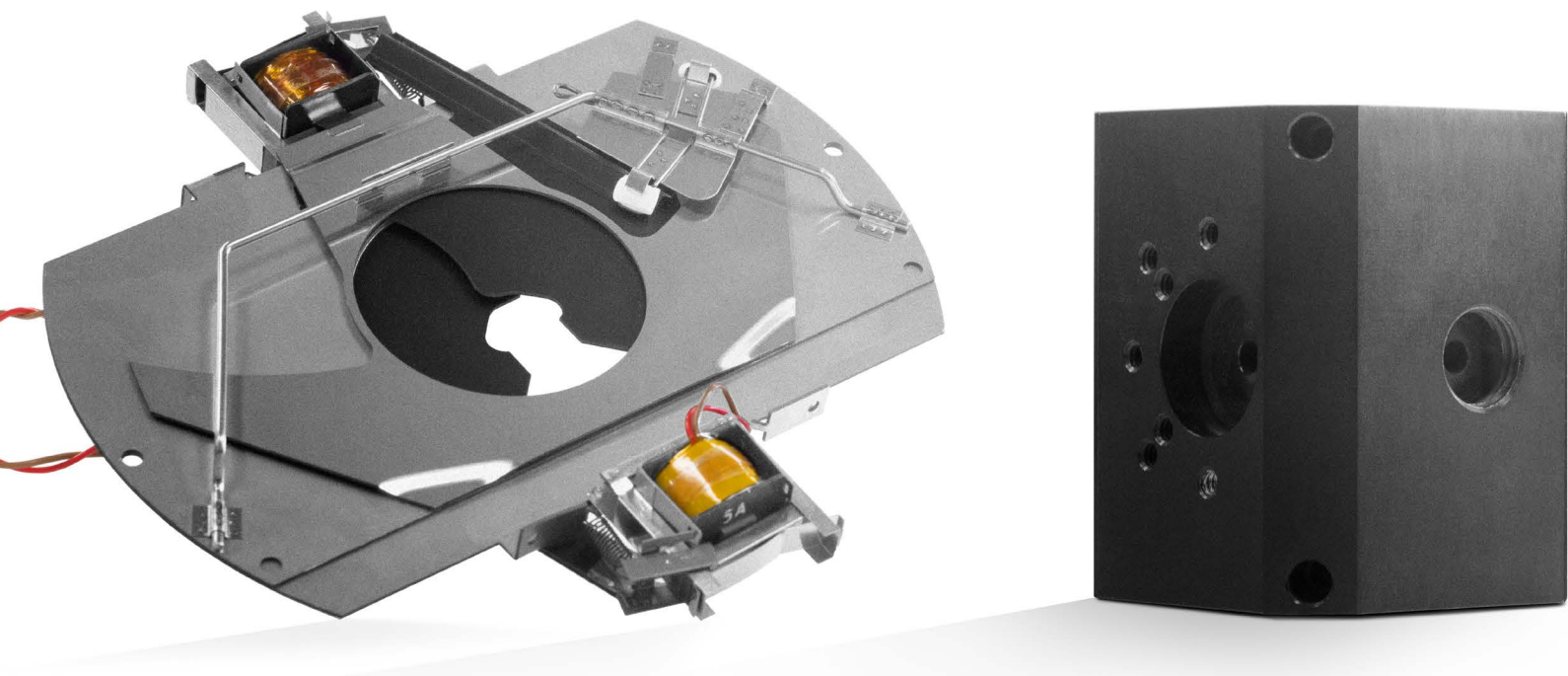
Shutters used in high-end imaging systems, such as machine vision, high-speed cameras, and optical metrology systems, must be simplistic in design and flexible for original equipment manufacturing (OEM). These applications demand long shutter lifetimes, which is paramount in all Uniblitz shutter systems.



Recommended Shutters

- > VS Series
- > CS Series
- > DSS Series





Custom Capabilities

We pride ourselves on our ability to offer shuttering solutions to all of our customers, no matter their application or situation. If you can't find specifically what you need within our standard catalog of products, rest assured knowing our custom capabilities are the most versatile in the industry. From alternative shutter blade coatings to completely custom product designs, we will strive to make a high-performance Uniblitz shutter system work for you.

