

FEATURES

- New quick-change housing eliminates need to remove attached equipment when upgrading shutter.
- Small form factor, a 45 mm aperture fits into a 4-inch diameter housing!
- Five-bladed design in combination with the *UNIBLITZ*[®] actuator provide increased speed over other designs of this type.
- State of the art patented damping system for increased reliability and speed.
- Reflective blades available for laser and non-coherent light sources, "S", "Z" and "ZM" Type.
- Can be driven with our existing VMM/VCM drive units. Special driver not required.
- Mounting adapters available for various camera manufacturers
- Electronic Synchronization System option available.
- Exposure repetition rates from DC to 15Hz.
- Can be configured normally open (QCSR45).

The **QCS45** is the first shutter to utilize our new quick change housing. The new case design will virtually eliminate downtime due to recalibration and alignment when upgrading a shutter in your optical system. The housing consists of three parts: the case, cover and carrier. The carrier houses the mechanical shutter and data connections. The case and cover remain attached to the existing aligned components at all times. By the removal of two screws, the carrier and shutter unit can be upgraded with a new one.

The **QCS45** utilizes a modified CS45 standard shutter, therefore it possesses all the same reliability and timing characteristics as a typical CS45. For information regarding the electrical, mechanical and timing specifications of the **QCS45** please refer to the CS45 documentation.

The **QCS45**, along with its state of the art patented damping system, provides increased reliability over other designs of its type. In addition, the system provides the reliable actuator system found in all other *UNIBLITZ* shutter designs allowing it to be driven with our existing VCM/VMM drive units. As an option, the shutter can be equipped the electronic synchronization system.

When gating high intensity light sources, the **QCS45** can be equipped with polished stainless steel reflective blades. This option protects the shutter blades from the light source's damaging effects by reflecting the energy away from the blade surface. Also available are "Z" (AISiO) and "ZM" (AlMgF₂) coated shutter blades.

To further enhance the flexibility of the QCS series, we offer an optional #17 mount for adapting the shutter with Nikon type lenses. We also offer a series of mounts for Camelia, Dalsa, and Cooke specific cameras. For non-specific mounting installations, the #101 mounting ring can be used for universal mounting into many applications. Additional information regarding these and the #101 ring can be found in the specific data sheets entitled "MICROSCOPE, VIDEO and UNIVERSAL MOUNTING SYSTEMS" or on-line under "products", "Mounting Systems".



This figure shows a typical shutter application including a camera and lens. The QCS45 is in the installed position for normal operation.



This figure shows the cartridge in the removed position. The camera and lens are not disturbed, maintaining proper optical alignment.

PRODUCT OPTIONS

QCS45S 3 T 0 -101

APERTURE SIZE	HOUSING	BLADE FINISH	ELECTRONIC SYNCHRONIZATION	MOUNTING OPTIONS
QCS45S - 45mm	1- CARRIER ONLY 3- #3 CASE	T - TEFLON COATED S - POLISHED STAINLESS STEEL BLADES* ZM - AlMgF ₂ COATED BeCu BLADES* Z - AISiO COATED BeCu BLADES*	0 - OMIT SYNC. 1 - ELECTRONIC SYNC.	-17 F TYPE VIDEO ADAPTER -101 MOUNTING RING -125 CAMELIA ADAPTER -126 NIKON "F" MOUNT (MALE) -127 DALSTAR ADAPTER -128 COOKE ADAPTER

*Input side only, Teflon[®] coating is on opposite side. Intended to protect the shutter blade surface, light source must be input to the reflective side only.

