

Shutter Controller

Description

The Uniblitz shutter controller uses OEM modules from Vincent Associates to control the in-air mechanical shutters. It also incorporates a shutter logic circuit that can be used to trigger shutter closure when a light level reaches a threshold. Two shutters can be controlled from a single half width 2U enclosure. The threshold level and the manual open/close commands are controlled from the EtherCAT system. A list of shutters in advanced LIGO can be found at ShutterList.

Specifications

Controlled shutters:

- 2 x Uniblitz V25

Connectors:

- 2x1 9-pin D-sub (shutter wiring)
- 2x1 TNC input for trigger voltage
- 2x3 BNC for threshold, manual close and open

Indicators:

- shutter stat, front
- trigger, front

Remote interface:

- 1 15-pin female D-sub, control

Power:

- 24VDC/1A on rear 3-pin power D-sub
- Physical on/off switch with thermal breaker

Physical:

- 8"(W) x 12"(D) x 3.5"(H) stand-alone enclosure
- Rack-mountable
- Operating temperature: 10°C - 30°C