

# Image intensifier control unit for II18D and II18GD and II25



## Description:

With this control unit the gain and gating properties of the Lambert Intensifiers II18D, II18GD and II25 can be controlled by software. The unit also supplies the DC voltages for the intensifier and the gating electronics. The interface is connected to the computer via an RS-232 (optional USB). A windows program is supplied to control the settings. Alternatively the unit can be controlled by ASCII commands from customer software.

The control unit can easily synchronise gating (= high speed shutter function of the image intensifier) with the exposure time of the camera that is placed behind the image intensifier. Simply connect a synchronisation signal from the camera (for example STROBE or EXP) to this control unit.

As an option the interface can be re-programmed to customer specification including adding extra in- and outputs.

## Specifications:

Gain control	Digital in 256 steps
Gate pulse width	Digital in 4 ranges: 20ns - 4 $\mu$ s, in 20ns steps 4.1 $\mu$ s - 25 $\mu$ s, in 100ns steps 26 $\mu$ s - 250 $\mu$ s, in 1 $\mu$ s steps 300 $\mu$ s - 25ms, in 100 $\mu$ s steps
Gate delay	50ns - 355ms, in 20ns steps (ref. to external trigger, for example camera synchronisation signal)
Propagation delay	50ns
Gate trigger modes	1. Camera trigger 2. Follow camera exposure 3. External trigger 4. Follow external
Input power	230VAC, 50W
Interface to PC	Via RS-232 (optional USB)
Control	Via windows control program or ASCII commands
Options	Customer specified re-programming of timing Extra in- and outputs

## Dimensions and weight:

Size : 20(D) x 15(W) x 7,5(H) cm

Weight : 1,4 kg

