

ILCI

Intelligent Lens Coupled Intensifier



The ILCI is a fully integrated, programmable gating controller combined with a high voltage power supply, gate module and intensifier with a dual lens system.

The gating controller provides all functionality required to gate the integrated intensifier, no additional electronics are required. The ILCI Gating Controller can be pre-configured by specialists at Photek to provide turn-key operation of your Image Intensifier based on the unique requirements of your application. The ILCI trigger may be either internally generated or controlled by an external trigger and operates up to 100kHz. Pulse widths are selectable from 5 ns to 10 s. Set-up is easy, with all functions available from either the touch screen user interface or via an integrated USB computer interface. Contact Photek technical support for help in configuring a customized solution.

Key Attributes

- > Temporal control of gate width, delay and frequency of operation
- > The ILCI may be triggered internally or via one external Trigger Input
- > Three temporally controlled synchronization outputs which can be individually enabled to initiate external timing
- > High frequency operation, 100kHz continuous or 100MHz Burst Mode for 1ms
- > Selectable Positive or Negative Edge triggering from external trigger source input
- > Touchscreen display for manual set-up and adjustment
- > USB Interface for computer control
- > Image Intensifier Gain Control
- > A Screen current monitor function which can disable the gating and high voltage in case of an unsafe condition

Product Overview

Pulse Width Range	5 ns to 10 s
Pulse Width Step Size	5 ns
Pulse Delay Range	50 ns to 2 s
Pulse Delay Step Size	5 ns
Frequency Max. (Continuous)	100 kHz
Frequency (Burst mode for 1 ms)	100 MHz
Pulse Jitter (RMS)	180 ps
Depth x Width x Height	267.3 x 96 x 115 mm
Weight	~ 2 kg
Power Supply Requirements	12 V @ 1A

About Photek

Photek is a specialist manufacturer of vacuum based tubes and camera systems for photon detection.

Our product range includes; Camera Systems, Image Intensifiers, Photomultiplier Tubes, Streak Tubes plus a range of associated electronics.

We are experts in large area and ultra-high speed imaging and advanced photon counting camera systems.

Our continuing success is built upon continuous innovation and product development, and by harnessing and applying knowledge to find solutions for all of our customers' applications.

Photek is accredited to ISO 9001 and ISO 14001.



Contact Us

Our team of specialist engineers and scientists are ready to discuss your application requirements in depth.

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