

ProxiGate System

Remote



APPLICATIONS

- ❖ Low-light microscopy
- ❖ Fluorescence analysis
- ❖ Dynamic processes
- ❖ Combustions analysis
- ❖ Plasma research

FEATURES

- ❖ Modular system
- ❖ Grows together with your application
- ❖ Convenient handling
- ❖ MCP module with different sensitivity ranges (from UV to NIR)
- ❖ Gating module down to 5 ns
- ❖ High-voltage power supply integrated

WHAT IS THE CONCEPT BEHIND PROXIGATE SYSTEM?

- ProxiGate System Remote is a collection of image intensifier, pulse generator and digital control unit module forming an intensified and/or gated pulse system.
- The modules fit together via special cable connections in different length and can be easily assembled and disassembled.
- ProxiGate System Remote can be easily upgraded or modified by adding or exchanging intensifier or generator units. This can even be done by the skilled end-user.

WHAT ARE TYPICAL APPLICATIONS?

- Observation of low-light processes which cannot be illuminated by extraneous light (e.g. combustion, fluorescence)
- Freezing of ultrafast processes (e.g. explosions, plasmas) or synchronization of laser-excited processes (exposure time down to 5 ns with a maximum repetition rate of 10 kHz)
- Detection of UV sources and weak UV images down to the photon level
- Low-light imaging in the spectral range from UV (200nm) to visible (780nm), even to NIR (850nm) with customized version

WHAT DO PROXIGATE'S "BASIC MODULES" CONSIST OF?

- ProxiGate Imager *PGI*:
MCP image intensifier module with broadband (200nm to 780nm) photocathode and integrated high voltage power supply with active areas of 25 or 40mm
- ProxiGate Generator *PGG Remote*:
Gating Electronics Module down to 5ns / 10 kHz
- Digital Control Unit with GigE Option for Gating Electronics Module *μDCU*

ARE THERE ADDITIONAL, CUSTOMIZED MODULES AVAILABLE?

- Yes, image intensifier and gating modules can be manufactured based on the broad product range of ProxiVision's image intensifier and gating units. Special image intensifiers cover certain spectral ranges, e.g. down to 120nm or up to 850nm. Gating unit can be modified to customer's needs.

WHAT ARE THE BENEFITS OF PROXIGATE SYSTEM?

- It is a set of basic modules with an attractive price-performance ratio and short delivery times.
- easy trigger modes, starting internal gating times only via TTL trigger edge
- 8 pre-adjusted or custom set gating times,
- The image intensifier module fit together regarding electrical connections and allow
 - > to add or remove modules just as needed
 - > to handle your modification as a skilled end-user
 - > to re-use it later for new applications
- easy adjustment, controlled via digital control unit with display and/or GigE interface