

# *Photonic Test System ProxiTest*



## *Customized Image Intensifier Test System*

### APPLICATIONS

- ❖ System specification
- ❖ Technology consulting
- ❖ Engineering & prototyping
- ❖ Customized system configuration
- ❖ Updating & retrofitting

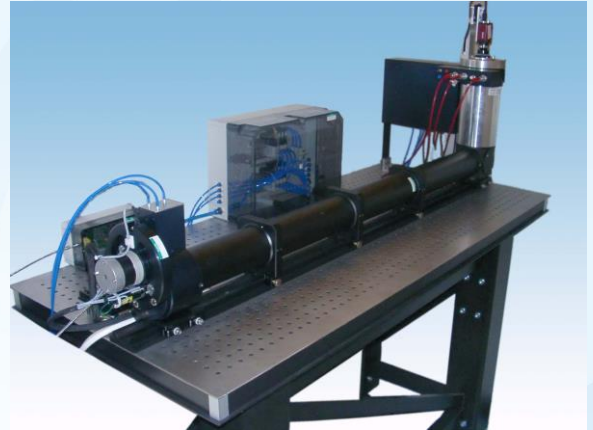
### FEATURES

- ❖ Different test conditions
- ❖ Automation
- ❖ Feasibility studies
- ❖ Image processing algorithms

## INTRODUCTION

Image intensifier test stations of the ProxiTest family are automated measurement systems for the characterisation of UV or visible sensitive image intensifiers. They comprise the hardware and control program for evaluation of the main parameters of image intensifier tubes. They can be used for the image tube characterization in the development as well for the low volume series production. The following parameters can be evaluated:

- Detection Efficiency
- Electron gain
- Dark current at room temperature
- Pulse height distribution measurement for counting operation image intensifiers
- Imaging quality characterisation: e.g. resolution, uniformity, active area, bright spots



## HARDWARE

The hardware of the image intensifier test station ProxiTest consists of an optical bench with frame which provides a solid base for the optical system.

The optical construction includes a central holding fixture for the image intensifier under test. A beam guide systems with (depending on the type) stray light traps and a beam deflection unit provide optimal illumination for the individual test conditions as well as a convenient sample access.

The light source units are equipped with selectable LEDs and/or optical filters. Light source and filters change is done by remotely controlled motors.

Motors as well as the LEDs are powered by remotely controlled drivers.

High-voltage power supplies for the image intensifier operation are included.

A PC with ProxiVision made control program is included for controlling hardware as well as for performing measurements and necessary evaluations. High-voltage, control hardware and PV hardware are integrated in a 19" rack.

