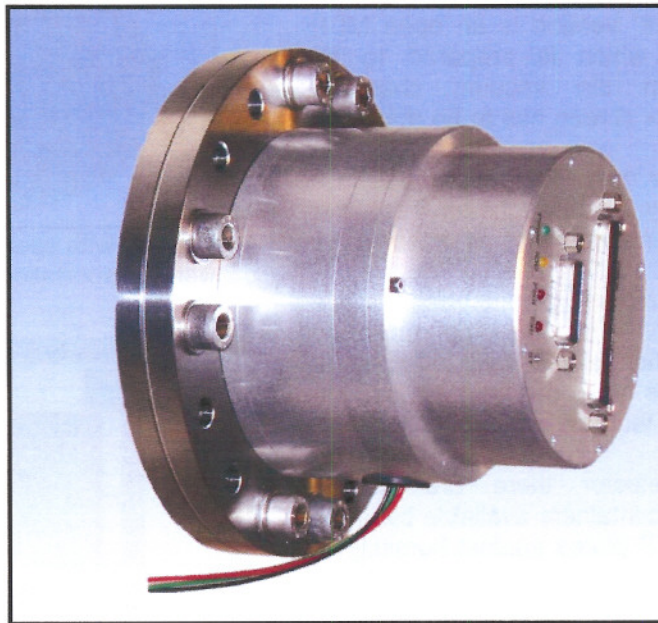


Preliminary

Open MCP Detector Camera



Applications

- X-ray diffraction
- Electron detection
- X-Ray detection
- UV Detection
- Heavy ion detection
- Convenient beam adjustment

Features

- MCP with 25mm or 40mm diameter
- Integration in CF flange
- Single, double or triple MCP versions
- Different types of MCP plates
- Many camera and sensor types (large range of pixel and sensor sizes, resolutions, framerates)
- Coupling with fibre optical plates (1:1) or adaption of field of view by taper coupling
- Screens with P43, P46, P47 and other Scintillators
- Power supply for MCP operation

Open MCP Detectors

As manufacturer of 25 mm and 40 mm proximity focused MCP image intensifiers, PROXITRONIC also offers a broad variety of open detector systems. When using these systems, a two-dimensional image of electrons, particles (neutral or charged), X-rays and UV-radiation is possible. Open MCP detector systems are specially suitable for the energy range from 10 eV ... 1000 eV (approx. 120 nm ... 1 nm).

Besides the 25 mm and 40 mm microchannel plate standard types with one, two or three MCP plates, a large number of special designs according to the needs of our customers can be produced upon request.

The so-called "demountable" version is an open MCP detector without camera which is prepared to be installed anywhere within the vacuum chamber. Observation of the phosphor screen has to be managed through a vacuum window.

For the "flange" version the open MCP is inserted in a CF flange with all necessary feedthroughs for the power supply and the optional enhancement of attaching a camera to the output screen.

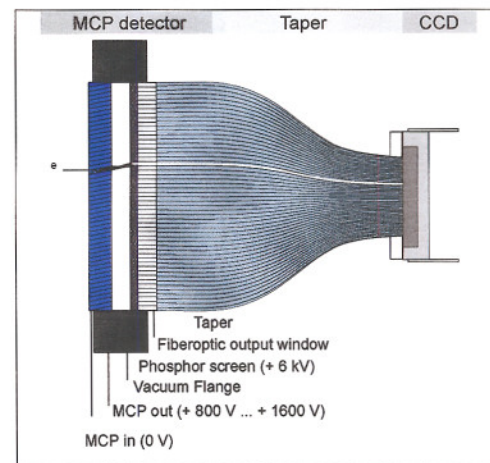
On the vacuum side, only mounting components made of glass, metal or ceramics are used. The maximum heating temperature of the flange type is limited to about 80°C while the demountable types can be even used in UHV applications with bake temperatures up to 350°C.

For the open MCP detector there are special transportation and storage containers available because of the sensitivity of the MCP plates against humidity of the air.

The flange version of the MCP detector is well suited for fiberoptic adaption to different types of cameras which can be chosen by the customer. PROXITRONIC supplies the complete imaging system to his customers or single components or services on request.



Camera with open MCP Detector system with transportation container



Principle drawing

Low Light Cameras UV Cameras	Short Exposure Cameras	Fiber Optical Coupling	Detector and Camera Upgrades
Pulse Generators	Open Vacuum Detector Applications	Customised Prototyping and Series Production	Customised Test Systems