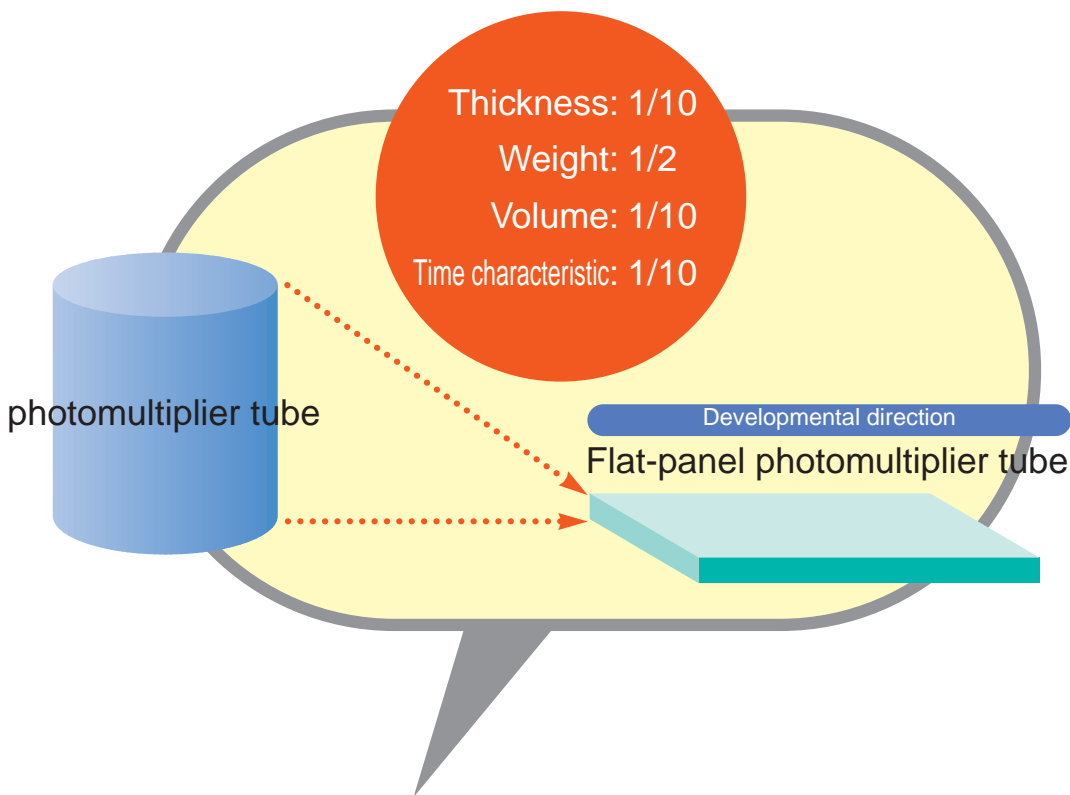


Advantages and Possibilities in Large-area Panel-type Photosensor

The photomultiplier tube of the near future: larger sensitive area and thinner design

In order to develop one of the advantages of the photomultiplier tube, namely its wide light-receiving area, to the maximum extent, development of a photosensor is underway which will allow optical signals over a wide area to be captured all together. The first step in this objective is to develop a panel-type photomultiplier tube with a size of $\square 50$ mm to $\square 75$ mm. Subsequent plans include developing a model with position detection capability.



The following customer concerns are being addressed:

Alternative methods to spreading out a number of optical sensors with small photocathode surfaces for detection, which is too expensive
Sensors with a large surface area, that can detect weak optical signals faster
The ability to conduct optical signal detection in locations with limited space

Applications under consideration:

X-ray imaging	Semiconductor manufacturing inspection instruments
Dosimeters	PC board inspection
Scintillation cameras	LCD/PDP test devices
Scintillation probes	PET
Clinical inspection	Experiments in high-energy physics