Lecture Notes
Detectors

Faraday Cup
Electron Multiplier

Discrete-dynode EM

Continuous-dynode EM

A series of dynodes at increasing potentials produce a cascade of electrons.

Electron Multiplier

external conversion dynode

Positive ions

Negative ions

conversion dynode (+ 7 kV)

conversion dynode (- 7 kV)
Multichannel Plate Detector (MCP) (channel electron multiple array (CEMA))

Daly Detector
Cryogenic Detectors

see Mass Spectrometry Reviews, 1999, 18, pp. 158-186

Image Current Detection

FTICR
Image Current Detection

Orbitrap