

**Subject :** Astronomical Instrumentation

**Title :** Instrumentation for astronomy

**Lecturer :** Takayuki Kotani

**Outline :**

Instrumentation is an essential component of astronomical research, and unique instruments are becoming increasingly important for conducting advanced research. There are various types of instruments for astronomy, most of which are specifically designed and built for different purposes. In this lecture, I will introduce the latest instruments, the history of instrument development, and how instruments work.

**Learning objectives :**

1. Understand general history, purposes, performances of astronomical instrumentation.
2. Understanding how astronomical instruments work

**Textbooks and references :**

“Astronomical Optics”, Daniel J. Schroeder, 2012

“Optics”, Eugene Hecht, 2015