

Detector selection chart

| Integration/ exposure time | UV-VIS 190-1100 nm wavelength range | | | | NIR 900-2500nm wavelength range | |
|----------------------------------|-------------------------------------|--------------------------------|----------------------|---|---------------------------------|-------------------------------|
| | High sensitivity | | High SNR | | Detector type | Examples |
| | Detector type | Examples | Detector type | Examples | | |
| 10 sec | Deep cooled CCD | Andor iVac 316 | | | | |
| 1 sec | 1-2 stage TE cooled BT-CCD | <u>Hamamatsu S7031 series</u> | | | 2-stage TE cooled InGaAs | <u>Hamamatsu G9206</u> |
| 100 msec | Non-cooled BT-CCD | <u>Hamamatsu S10420 series</u> | Non-cooled NMOS/CMOS | <u>Hamamatsu S390x series</u> and <u>Hamamatsu S838x series</u> | 1-stage TE cooled InGaAs | <u>Hamamatsu G9203/G9204</u> |
| 10 msec | | | | | | |
| 1 msec | Non-cooled CMOS | <u>Hamamatsu S11639</u> | | | Non-cooled InGaAs | <u>Hamamatsu G9204 series</u> |
| 100 µsec | | | | | | |
| 10 µsec | Non-cooled BT-CCD w. Global shutter | Hamamatsu S11156 | | | | |
| 1 µsec | | | | | | |