

TAOS is pleased to announce the release of the new TCS3200 and TCS3210, the latest addition to the TAOS Light-to-Frequency color sensor product portfolio.

The TCS3200 and TCS3210 are drop in (pin and function) replacements for the popular TAOS TCS230 color sensor with the same incredibly large light sensing dynamic range with some additional improvements.

The 3200/10 offers a 30% reduction (relative to the TCS230) in active current to only 1.4mA typically which will extend battery life to portable devices. The TCS3200/10 also has almost completely eliminated the power down current to less than 100nA.

The TCS3200/10 has added a new feature that allows for powered down operation to have a high impedance output. This allows for multiple devices to share a common output pin, with only one device powered up at a time. This can be very useful for extending battery life in portable application using two or more color sensors.

TAOS has made available two lower gain versions (TCS3200 ~ 80%, TCS3210 ~ 30%) relative to the response of a TCS230. This will allow for brighter light application such as solid state light control without the issue of saturation of the color sensor.

Parameter	TCS230	TCS3200	TCS3210
Idd on mode (mA)	2	1.4	1.4
Idd power down (uA)	7	0.1	0.1
Clear responsivity (Hz/(uW/cm^2))			
470nm	424	331	124
524nm	495	386	145
640nm	578	474	178

TCS230D, TCS3200D, TCS3210D Clear Channel Absolute Spectral Response



