F A Q

Genuine UV Technology genUV

Subject : Comparison of erythema curve with Genicom's UV sensors	Date :	2015. 10. 02.

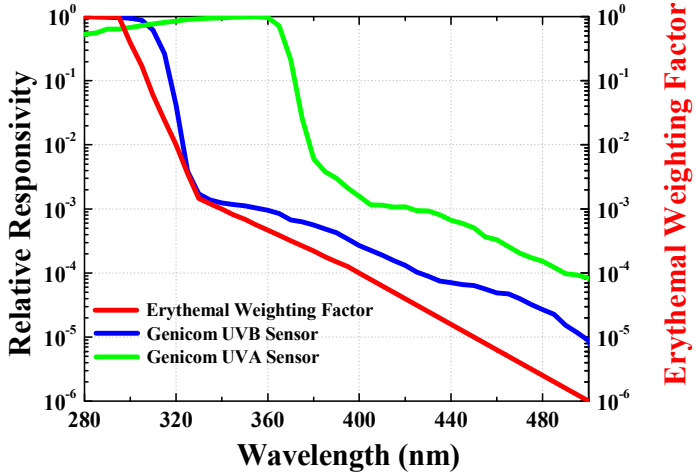

Fig. 1 Erythema curve and responsivity of Genicom's UV sensors (Red Line: Erythemal response, Blue Line: UVB Sensor, Green Line : UVA Sensor)

Category	Detection Range(nm)	Peak Responsivity	Applications	Feature
UVA Sensor	240~370	360nm	UV Index monitoring products, Wearable device etc.	Low Cost
UVB Sensor	240~320	305nm		High Precision

Table. 1 Genicom's UV sensor of detecting the UV Index

- Erythema curve : A reference action spectrum for the ultraviolet induced erythema in human skin.
  It's obtained per each wavelength by means of a weight factor, such as defined by the erythema action curve.
- The Fig. 1 shows that a comparison data for the erythema action spectrum and Genicom UV sensors.
- As the UV sensor responsivity closed to erythema action spectrum, it mean high accuracy.
- As shown Fig. 1, the responsivity of UVB sensor is similar to erythema curve and used to accurate UV Index measurement system or reference meter.
- UVA sensor is low cost and used to detecting UV Index because it's response at UVB range.