

**UV photodiode evaluation board
hardware manual**

V3.0

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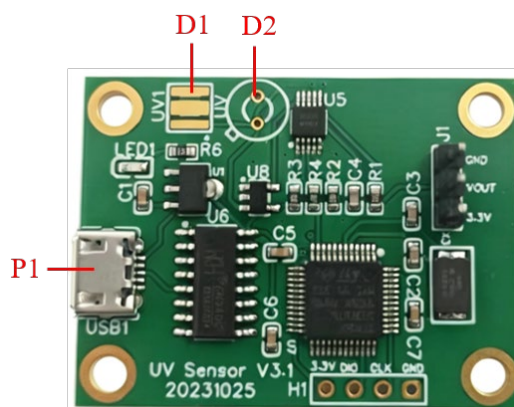
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Revision History

Version No.	Date	Revision	Remarks
V1.0	2018-9-19	Draft version	
V2.0	2018-11-12	Revised version 1	Manual measurement range switching
V3.0	2026-9-21	Revised version 2	Automatic measurement range switching

1. Brief description of the UV photodiode evaluation board

The UV photodiode evaluation board is designed for the evaluation of the photoelectric performance of UV photodiodes. It provides a digital output interface for serial communication with a PC, enabling direct digital output. For photodiode mounting, the board supports two types of UV photodiode packages. D1 and D2 are used to mount SMD- and TO-type packaged UV photodiodes, respectively. Users could select one of the two mounting ports for UV photodiode evaluation, while both ports cannot be supported at the same time.



2. Interface of the UV photodiode evaluation board

Micro-USB port P1 provides digital interface to PC with USB cable connection. Users could use serial communication host software in PC to receive direct measurement data from the evaluation board. The host software and its operation manual can be downloaded from www.GaNo-UV.com.

3. Measurement range adjustment of the evaluation board

The evaluation board provides automatic measurement range adjustment for the digital output interface. The measurement range is automatically selected according to the intensity of the UV radiation signal, allowing the digital interface to maintain an appropriate measurement resolution over a wide range of UV illumination levels ($0.001 \text{ mW/cm}^2 \sim 0.2 \text{ W/cm}^2 @ 360 \text{ nm}$).

Note:

1. This version of the evaluation board features automatic measurement range adjustment. The UV power density measurement range spans approximately five orders of magnitude, from the μW level to the W level. Automatic range switching ensures accurate optical power measurement across the entire range.
2. The above measurement range is calculated based on a specific photodiode (part. No: GS-ABC-3535LQ). If a different photodiode is used, the measurement range of UV power density will be different.