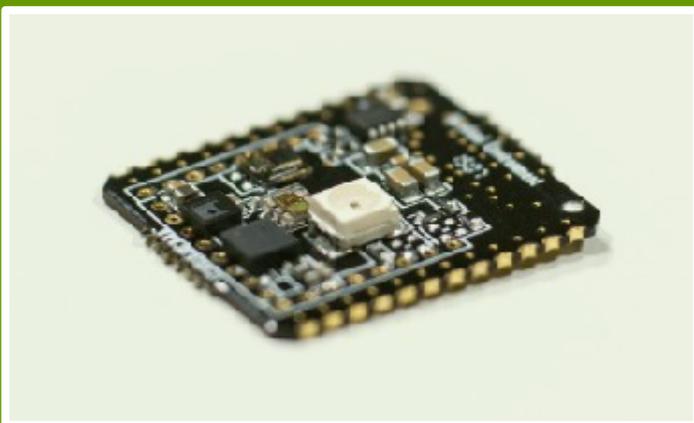


## Aistin Owl Sight Environmental Add-on Board (ENV212)

ENV212 Add-on Board – the Aistin Owl Gaze – serves your every environmental sensing needs. When attached to an Aistin Host Board (e.g. CPU2x2, BUB212, BUQ212 and BTL2x2) you can easily detect ambient temperature, air pressure and humidity, color of light, and the amount of UV radiation. With a built-in IR emitter you're even able to detect the object proximity.

It's the perfect choice for weather station applications, and because of its very small size it is excellent for wearable devices. But these are just few suggestions. When combined with different Host and Add-on Boards from the Aistin Family, even the sky is not the limit for your own innovative creations!

### Technical Overview



Dimensions: 16 x 17.5 mm<sup>2</sup>, PCB 0,6mm  
Aistin Bus24 Add-on Connector\*  
Light Color and Proximity Sensor  
IR Emitter  
Humidity and Temperature Sensor  
Air Pressure Sensor  
UV Sensor

# ENV212

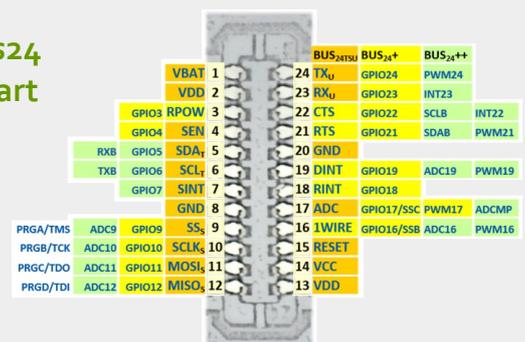
## Technical Details

ENV212 is an Aistin Add-on Board which is equipped with several sensors for detecting and measuring changes in the environment. Different sensor properties are described in the table below.

|                                 | ENV212   |
|---------------------------------|--|
| Light Color Sensor (TCS37725FN) | Very High Sensitivity; 3 800 000:1 Dynamic Range |
| Proximity Detector (TCS37725FN) | Detection Distance 76,2 cm                       |
| IR Emitter (VSMY3850)           | 850 nm Emitting Diode                            |
| Humidity Sensor (HTS221)        | 0 to 100% RH Range                               |
| Temperature Sensor (HTS221)     | -40 to 120 °C Temperature Range*                 |
| Air Pressure Sensor (LPS25H)    | 260 to 1260 hPa Absolute Pressure Range          |
| UV Sensor (UVIS25)              | 0 to 15 UV Index Output Range, UVI/16 Resolution |

ENV212 can measure the color and brightness of ambient light with its very high sensitivity light color sensor. It can even measure the amount of UV radiation. With IR emitter and proximity detector ENV212 can spot objects from 76.2 cm distance. The board has a full-range humidity sensor and very sensitive temperature sensor to measure ambient conditions. Air pressure can be measured with an integrated barometer.

Aistin Bus24  
Signal Chart



\* Theoretical sensor chip range