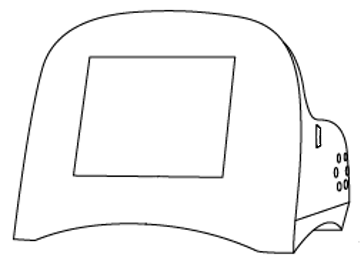
Speck

# Personal Fine Particulate Monitor

Speck is an air quality monitor that detects fine particulate matter in indoor environments and provides information about trends and changes in particle concentration.

Speck has Wi-Fi built in, enabling optional connection to a wireless network. Once online, and after linking it with a specksensor.com account, the Speck will continuously upload its data to specksensor.com where users can see its data in real time and explore its full history with a computer or mobile device.

|  |  |
| --- | --- |
| Detection method | Optical, DSM501A |
| Size range of detected particles | 0.5 – 3 microns |
| Measurement units | ppL or μg/m3 |
| Additional on-board sensors | Temperature, Speck 2.0 also has humidity |
| Environmental operating range | -10~ +65oC, <95% RH without condensation |
|  |  |
| Power supply | Micro USB, 5V 500mA |
| Weight | 5.8 oz (164.4 g) |
| Size | Width: 4.5 in (11.4 cm)  Height: 3.5 in (8.9 cm)  Depth: 3.7 in (9.4 cm) |
|  |  |
| Processor | Atmel XMEGA |
| Data timestamps | Unix time via real-time clock |
| Sampling interval | 5 seconds to 4 minutes (default 1 minute) |
| On-board data storage | Two years at 1 sample per minute |
| Online data storage | Unlimited via specksensor.com account |
| Screen | 3.2” TFT touchscreen |
|  |  |
| Display options | On/off, brightness control, colorblind mode |
| Connectivity | USB 2.0 through Chrome App, Wi-Fi 802.11 b/g |
| Supported wireless encryption | Unsecured, WEP, WPA, WPA2 personal |
| On-screen data access | Current, past hour, or past 12 hours |

# Specifications