

Nibble™ T 2.0

ChipSense™ Evaluation Device

- Spectral sensing module, including
- Hyperspectral Sensor ChipSense™ 2.x
 - Electronics
 - Light source and optics

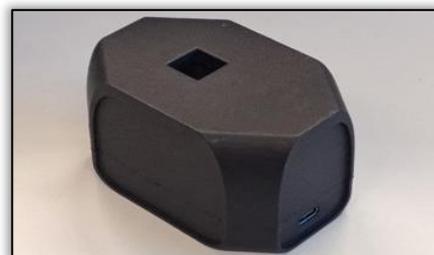


Standard* available in various wavelength range configurations (VIS, NIR, SWIR, VIS-NIR-SWIR) to be specified at product ordering.

Compatible with SpectraByte™ (Desktop app) and SpectraWeb™ (Browser app)

*Alternative configuration possible on request

| Parameter | Unit | Specifications |
|--|------|---|
| Intended use/application | | Liquids analysis |
| Optical Sensing Mode | | Transmission |
| Product Assembly Configurations | | Complete, Without Housing, PCB-Only |
| ChipSense™ product on-board | | 2.1-16 |
| Wavelength range configuration options | | VIS/NIR/NIR-BP/SWIR/ Full Range |
| Wavelength range configuration VIS | nm | 550 - 950 |
| Wavelength range configuration NIR | nm | 850 - 1700 |
| Wavelength range configuration NIR-BP | nm | 850-1100 |
| Wavelength range configuration SWIR | nm | 1100 - 1700 |
| Wavelength range configuration Full Range | nm | 550 - 1700 |
| Light Source Type | | Tungsten-based filament |
| Light Source power consumption (full. Power) | W | 0.5 |
| Light Source dimmable | | Yes, 64 levels |
| Light Source lifetime | h | 40.000 |
| Light Source Operation Mode | | Continuous/Triggered |
| Signal acquisition method | | Sequential |
| Acquisition Time per Channel Range | ms | 7.5-140 |
| Signal to Noise ratio (Empty cuvette sample) | dB | 70 |
| Cuvette compatibility | mm | 12.5x12.5 |
| Device Control via PC SW (SpectraWeb) | | Yes |
| Device Control via PC SW (SpectraByte) | | Yes |
| On-Device User Interface | | none |
| Wired Connectivity | | USB-C |
| USB-C Protocol | | USB serial port (115.2 kbps) |
| 6 pole SH protocol | | UART or RS485 (115.2 kbps) |
| Wireless Connectivity | | Wi-Fi (2.4 GHz) |
| Power supply | | DC (USB) or Battery |
| Voltage Supply | V | 3.7 - 5.1 |
| Current Consumption Stand-by | mA | 110 |
| Current Consumption Light Source on at Max Power | mA | 290 |
| Size (l x w x h) | mm | 52 x 34 x 32 |
| Size (only PCB) | mm | 46.42 x 26.55 x 1.7 |
| Recommended Operating Temperature | °C | 10 - 40 |
| Operating temperature | °C | 0 - 50 |
| Accessories delivered in package | | USB-C Cable |
| Software companion | | SpectraByte, SpectraWeb, FW update tool |



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