



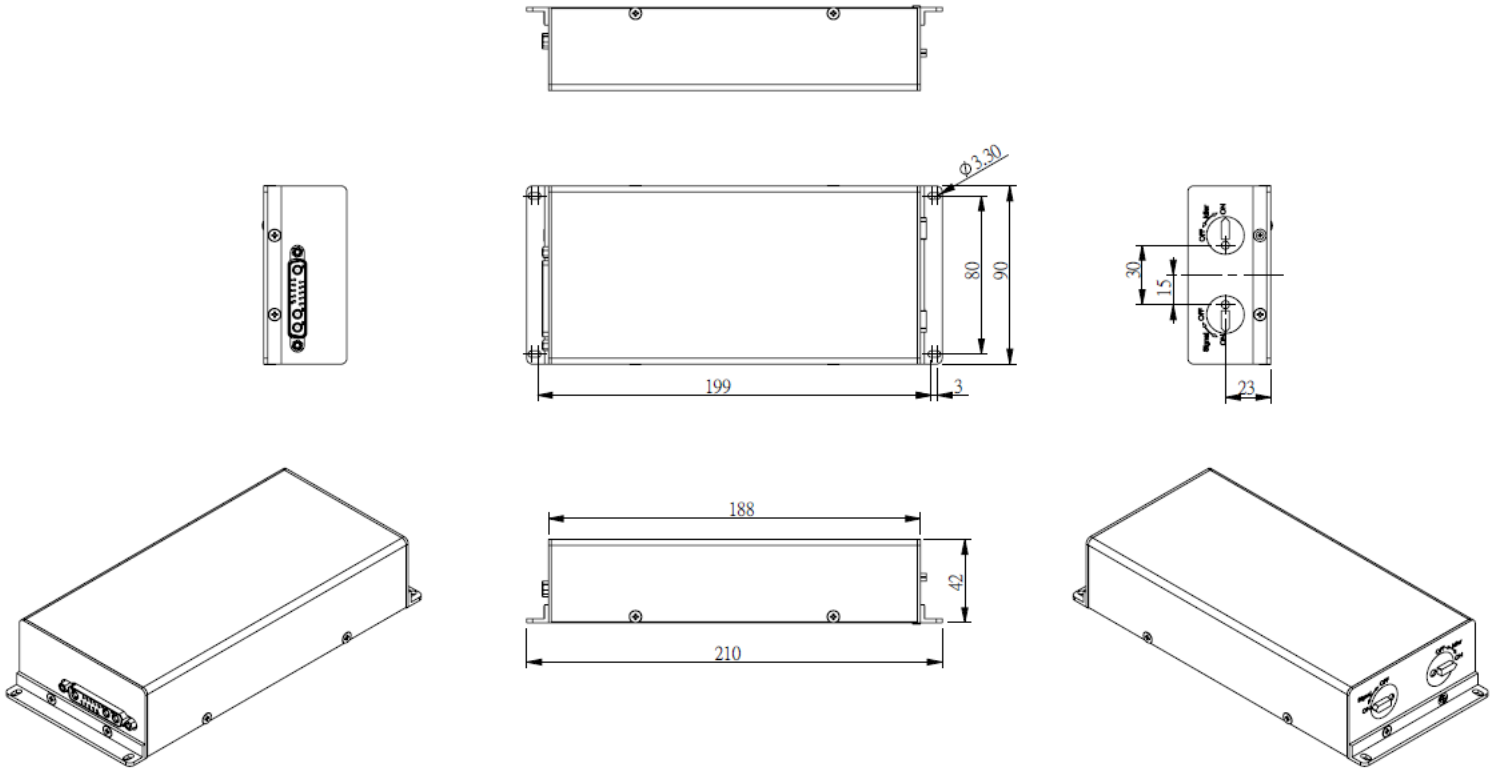
- Cavity enhanced conversion for your selected wavelengths bands (1.4-1.9 micron and 2.4-4.4 micron)
- NIR /MIR dual outputs
- Choice of broadband (B) or narrowband (S)
- Optional free-space output or fiber output

Reference Specification sheet

| Optics (General) | unit | Specification | | | Note |
|--|------|---|---------|---------|----------|
| Mixer Type | | Intracavity OPO Mixer | | | |
| Output Wavelength - Signal | nm | Central wavelength @ 1440-1880 | | | [1], [2] |
| Output Wavelength - Idler | nm | Central wavelength @ 2500-4100 | | | [1], [2] |
| Optics (Output) | unit | Minimum | Typical | Maximum | Note |
| Output power - Signal | mW | 250 | 300 | | [6] |
| Output power - Idler | mW | 100 | 120 | | [6] |
| Beam quality, M ² - Signal | | | 1.1 | 1.2 | |
| Beam quality, M ² - Idler | | | 1.2 | 1.5 | |
| Linewidth | GHz | | 150 | 300 | [3] |
| Diameter of collimated output beam | mm | 0.8 | 1 | 1.2 | [4] |
| Output beam (TEM ₀₀) ellipticity | % | | 10 | 20 | |
| Residual power rejection ratio at different wavelength | dB | 40 | 45 | | |
| Output polarization state | | linear @ vertical axis | | | |
| Output PER | dB | 20 | 25 | | |
| Output beam height | mm | 22.5 | 23 | 23.5 | |
| Output beam angle | mrad | -7.5 | 0 | 7.5 | |
| Mechanics | unit | Specification | | | Note |
| Housing dimension (L*W*H) | mm | 210x90x42 | | | |
| Electrics | unit | Minimum | Typical | Maximum | Note |
| Controller | | Customized controller | | | [5] |
| Environment | unit | Minimum | Typical | Maximum | Note |
| Storage temperature (no humidity) | °C | -20 | - | 70 | |
| Operating temperature range | °C | 10 | 25 | 35 | |
| Operating relative humidity (non condensing) | %RH | 0 | - | 85 | |
| Vibration / Shock | | Refer to ISTA-2A | | | |
| Restriction of hazardous substances directive (RoHs) | | Declaration of Conformity to 2011/65/EG | | | |

[1] Different wavelength from 1400-1900 nm to 2400 ~ 4400 nm possible upon request
 [2] Can be tuned tens of nm in one mixer
 [3] Single longitudinal mode operation possible upon request
 [4] Fiber output for the signal port is possible upon request
 [5] Customized controller and software for operation
 [6] power level see reference below

- Mechanical drawing



Unit: mm

- Reference for output power at different output wavelength

