

Sub-Terahertz source

➤ TeraSchottky

Very easy access to sub-Terahertz waves

High power with up to 10s of mW

High reliability, space qualified

Based on Schottky multipliers

From 100 to 700 GHz

Large tunability >12%

Plug & Play system



The TeraSchottky is a low frequency THz source based on state-of-the-art Schottky diodes multipliers chains. Available at 150 GHz, 300GHz and 600GHz center frequency with tens of mW of average output power, TeraSchottky provides the largest tunability on the market for multiplier based sources with >12% of center frequency. TeraSchottky is fully integrated, plug and play system and controlled with a capacitive touchscreen for the best user

experience. Derived from European space research (Observatoire de Paris, LERMA), TeraSchottky only employs space-qualified RF component to reach maximum reliability. All critical system components are kept at a constant monitored ambient temperature to maximize stability and life-time of the system. Lytid's award winning approach to the design of terahertz sources is once again the driving spirit behind TeraSchottky.

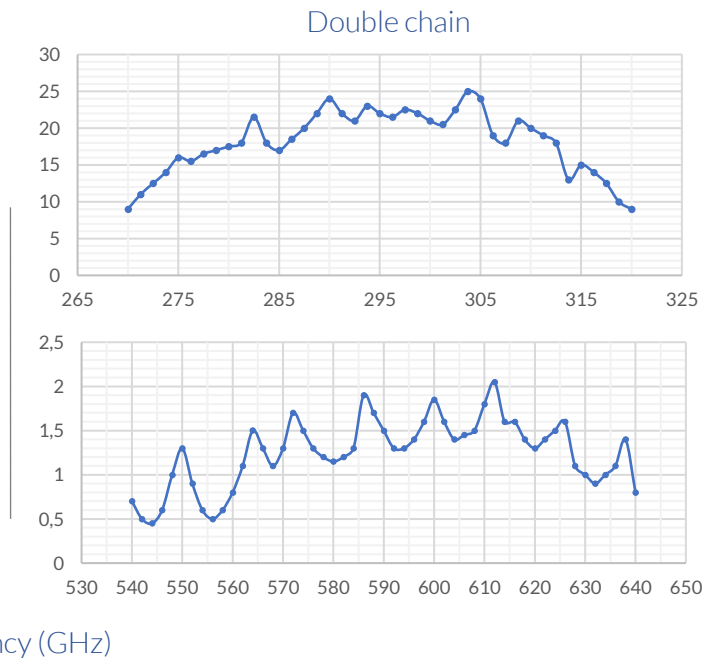
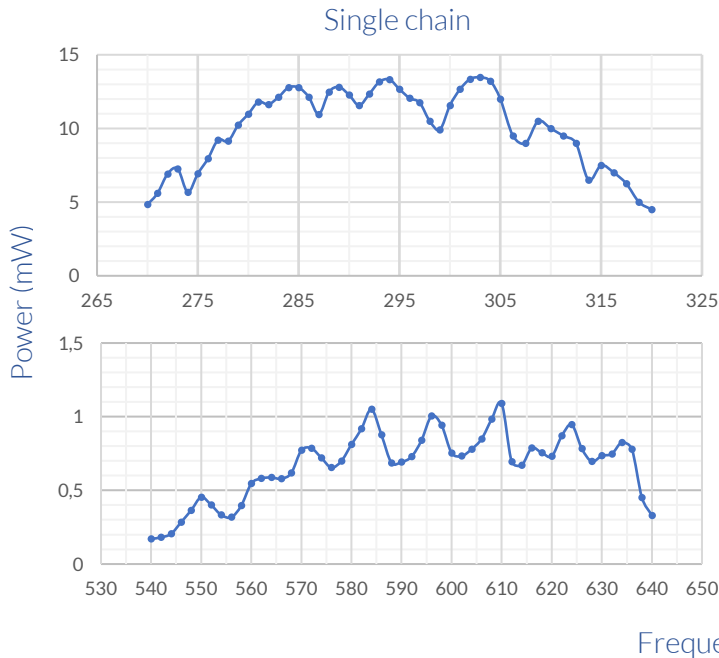


Control:

- ✓ 4.3-inch capacitive touchscreen

Connection:

- ✓ MOD IN: AM modulation frequency
- ✓ MOD OUT: AM modulation output (lock-in)
- ✓ TS OPTIMIZER: Option to optimize output power ($\approx +10\%$)
- ✓ RF IN: RF synthesizer input (shortcuts the integrated one)



Features:

- Tens of mW of output power
- High spectral purity
- Largest tunability on the market (>12% of center frequency)
- Easy configuration with the integrated touchscreen interface
- Fully programmable locally or remotely via a computer
- Fully integrated & Plug and Play

Applications:

- High penetration imaging
- Detector characterization in the sub-THz range
- High spectral purity spectroscopy

Specifications	TeraSchottky
Electrical data	
Operation	CW
Modulation frequency	1Hz-1MHz
Tunability	>12%
Linewidth	1kHz
Control	Touchscreen
Power supply and operating parameters	
Voltage	100 - 240 V
Frequency	50 - 60 Hz
Power consumption	< 100W
Dimension and weight	
Height	100mm
Width	300mm
Length	250mm
Weight	4 Kg