



# **Sub-terahertz source**

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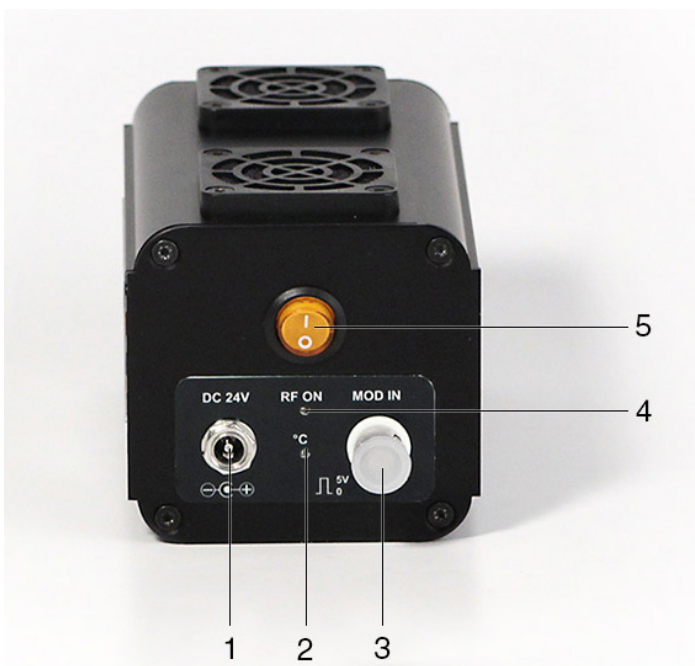
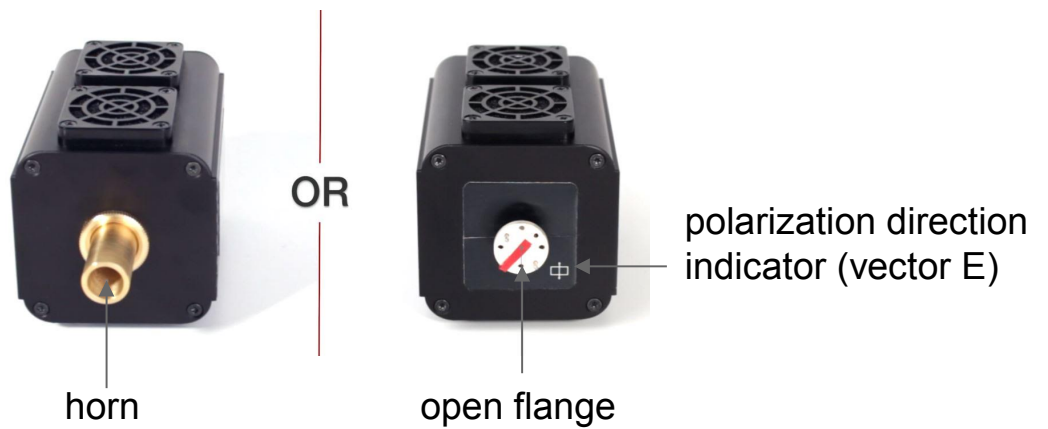
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# Overview



# Specifications

<b>Dimensions</b>	174 x 77 x71 mm (with horn)
<b>Weight</b>	0.5 kg (w/o power supply)
<b>Power supply</b>	24V, 18W
<b>Connector</b>	Coaxial Type A (OD 5.5mm, ID 2.1mm)
<b>Modulation</b>	5V, square wave
MOD frequency	1Hz — 10 kHz
Connector	BNC
<b>Operating conditions</b>	In-door
Temperature	10 - 25°C
Humidity	< 75%

Information on radiation frequency and output power is provided for each unit individually

## Supply package includes



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# Operation

To turn on:

- Plug power adapter cable to the power connector.
- Plug power adapter to a wall socket.
- Turn on the power switch.

To turn off:

- Turn off the power switch.
- Unplug power adapter cable from the power connector.
- Unplug power adapter from the wall socket.

Always make sure that the power switch is in the OFF position before plugging or unplugging of the power adapter!

To use modulation:

Output radiation can be modulated at frequencies between 1Hz and 10 kHz.

In order to modulate output radiation connect 5V square wave signal generator to the modulation input. The radiation is off when input signal is high.

The modulation input draws about 10 mA, when high.

The modulation input only can switch the radiation off or on, it can't regulate power in any way.

Do not apply to modulation input any voltage but 0 or 5V. Both high and low voltages may cause damage to the source.

Do not apply any signal form but square wave to the modulation input.

Do not use the modulation input to switch the radiation off for a prolonged time.

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# Overheating

The source includes overheating protection. If the overheating condition occurs, the radiation is switched off and the red overheating LED is lighted up.

In order to restore operation of the device after overheating let it cool down without switching it off then switch it off, wait for 10 seconds and switch it on again.

If the source overheats repeatedly, take measures to reduce ambient temperature or provide additional external cooling.

## Warnings

**Never block ventilation grids!**

**Do not operate the source if its fans are not running.**

**Quick powercycling of the device after overheating may reduce its lifetime.**

# Drawings

(A) Mounting holes  
 Rubber feets may be removed to reveal M3 mounting holes closed by TORX screws. The screws can be removed and the holes used to attach device where needed. If mounting holes are not in use, please, put the closing screws back.

(B) Ventilation openings  
 Please, never close the ventilation openings!

