Infrared Thermopile Array Sensors

HEIMANN Sensor
HEIMANN SENSOR GMBH

Boston Electronics

Beam Profiler

Infrared Thermopile Array Sensors for Laser Beam Profiling

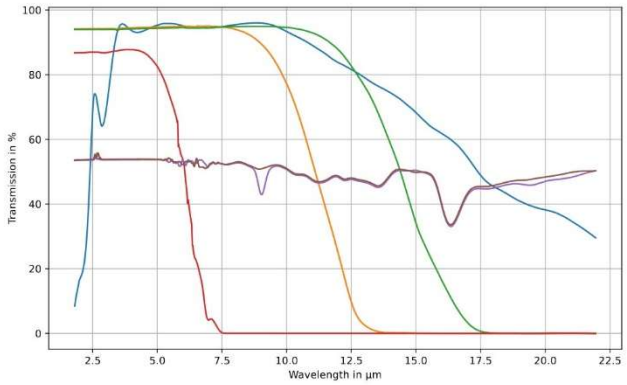
Our high-resolution array sensors are equipped with various planar filters for use with different laser beams of varying wavelengths. Depending on the use case and equipment, it is possible to choose between a sensor with a pixel pitch of either 90 µm (80×64) or 45 µm (160×120).

Depending on the sensor type, the Laser Beam Profiler comes either as a UDP module with an Ethernet port for 80x64 or as a USB Application Set for 160x120.

Optional: Beam profile analysis software

Available Filters and Transmissions

Filter	Ge w/ARC	CaF_2	BaF_2	Al_2O_3 (Sapphire)	Si uncoated	HRFZ-Si supports THz lasers



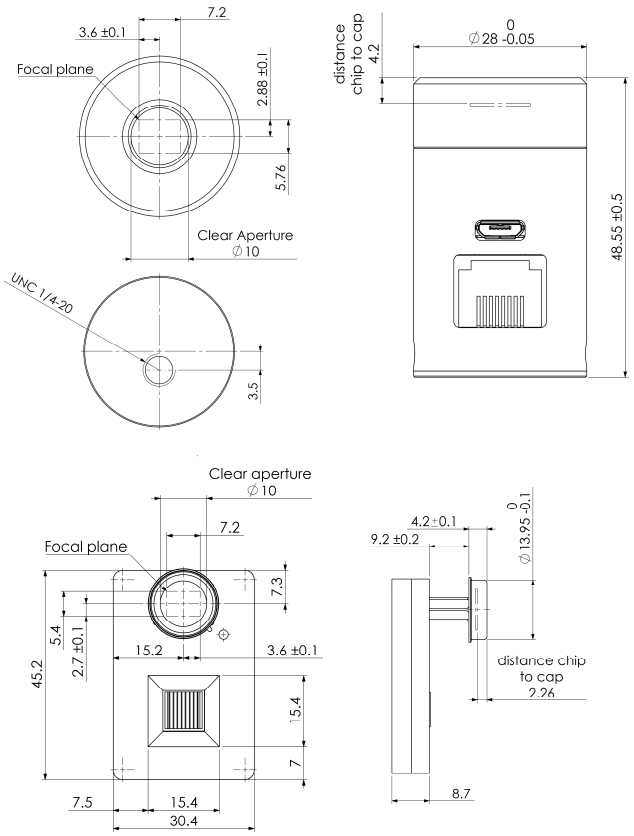
The transmission plot is limited by the spectrometer. Possible Range: 1.1 µm to THz

Model

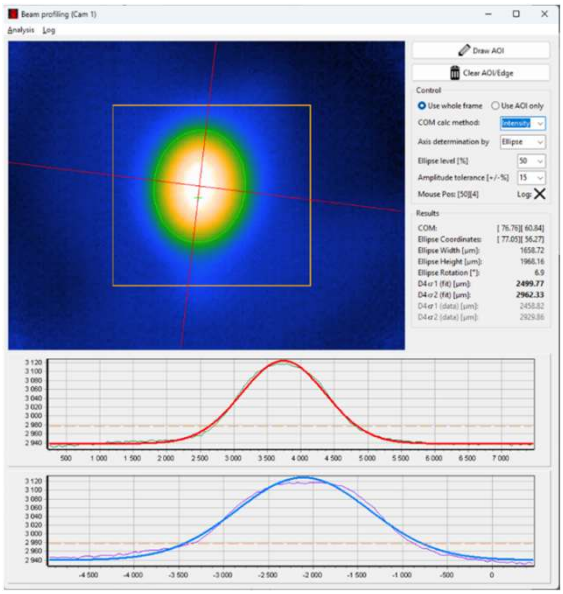
USB Application Set 160x120

UDP Application Set 80x64

Dimensions



Laser Beam Spot Visualized with ArraySoft



Modifications reserved Rev. 5 / 2025-04-09

HEIMANN Sensor
HEIMANN SENSOR GMBH

Boston Electronics

Order Code Chart

HTPA80x64d	R2	Beam Profiler	(UDP)	**[Ge]**
HTPA80x64d	R2	Beam Profiler	(UDP)	**[CaF_2]**
HTPA80x64d	R2	Beam Profiler	(UDP)	**[BaF_2]**
HTPA80x64d	R2	Beam Profiler	(UDP)	**[FZSI]**
HTPA80x64d	R2	Beam Profiler	(UDP)	**[SI]**
HTPA80x64d	R2	Beam Profiler	(UDP)	**[Al_2O_3]**
HTPA160x120d	R1	Beam Profiler	(USB)	**[Ge]**
HTPA160x120d	R1	Beam Profiler	(USB)	**[CaF_2]**
HTPA160x120d	R1	Beam Profiler	(USB)	**[BaF_2]**
HTPA160x120d	R1	Beam Profiler	(USB)	**[FZSI]**
HTPA160x120d	R1	Beam Profiler	(USB)	**[SI]**
HTPA160x120d	R1	Beam Profiler	(USB)	**[Al_2O_3]**

Bold: Selectable options
Regular: Fixed/Not selectable