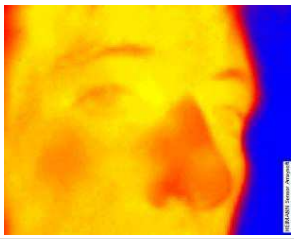
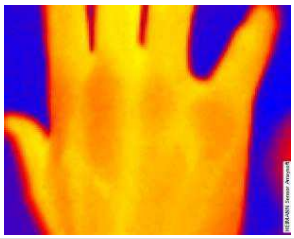


(Picture shows a human head watching to the side)



(Infrared picture of a hand, making the veins visible)

HEIMANN Sensor
HEIMANN SENSOR GMBH

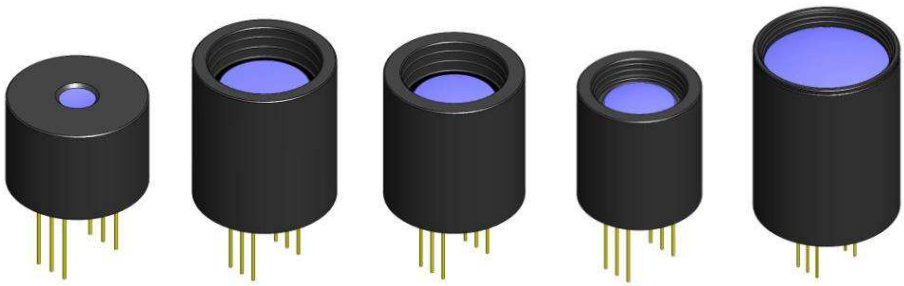
HTPA80x64d

Infrared Thermopile Array Sensor

The HTPA80x64d is the bigger brother of the 32x32d infrared array sensor with a resolution of 80x64 Pixel inside a TO8 housing. Due to the digital SPI interface only 6 pins are needed. It has a built in EEPROM to store all calibration data and a 16-bit ADC. The Speed can be set internally via the sensor clock and ADC-resolution up to 20 Hz (highest resolution) or up to 200 Hz (lowest resolution).

Parameter	*Value*	*Tolerance*	*Units*
Supply Voltage (DC)	3.3	± 0.3	V
Current consumption	30		mA
Ambient temperature range	-20 to 85		°C
Object temperature range	-20 to >1000		°C
Framerate (full frame)	1 to 200		Hz
Framerate (quarter frame)	4 to 800		Hz
NETD (best optics)	50-150		mK@1Hz

Available Optics:

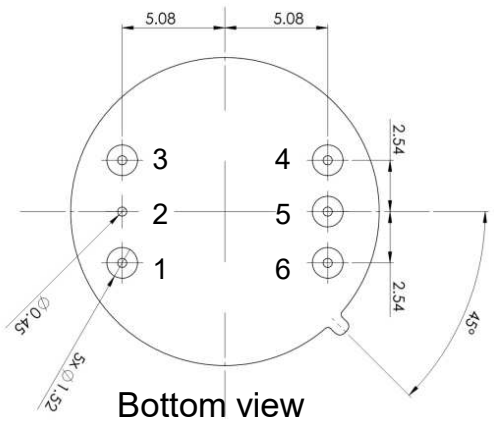


Optic	L5.0	L10	L10.5	L11[Si]*	L22.5
FoV [°]	88 x 70	41 x 33	39 x 31	38 x 31	18 x 14
Length of cap [mm]	14.4	25.7	24.1	21.3	36.5
F-number	0.95	0.7	0.95	1.0	1.0

*: Si optics are having a worse NETD but are cheaper

Pin Configuration (SPI)

Pin	*Function*
1	3.3 V supply
2	Ground
3	$\overline{\text{EE\_Enable}}$
4	MISO
5	MOSI
6	SCLK



Bottom view

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