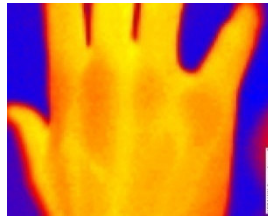


(Picture shows a human head watching to the side)



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



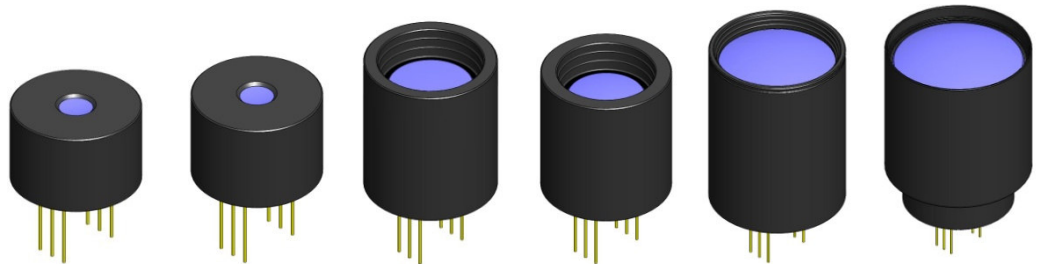
HTPA80x64d & 120x84 Infrared Thermopile Array Sensor

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	Units
Supply Voltage (DC)	3.3-3.6	V
Current consumption	25 / 35*	mA
Ambient temperature range	-20 to 85	°C
Object temperature range	-20 to >1000	°C
Framerate (full frame)	1 to 50 / 12*	Hz
Framerate (quarter frame)	4 to 200 / 80*	Hz
NETD (best optics)	150 / 40-100* Vac	mK@1Hz

* Data 120x84 preliminary (samples available in Q4/19)

Available Optics:

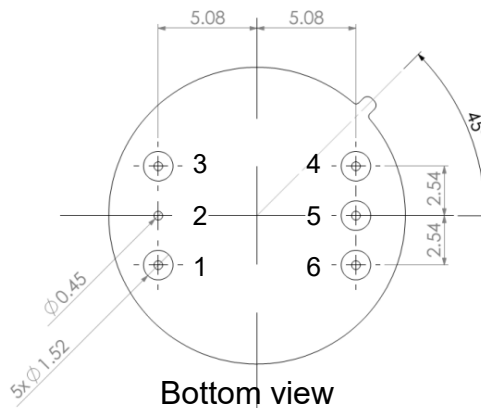


Optic	L3.9	L4.8	L10	L10.5	L22.5	L33*
FoV [°]	115 x 90	90 x 72	41 x 33	39 x 31	18 x 14	12 x 9
Length of cap [mm]	12.6	14.4	25.7	24.1	36.5	46
Diameter of cap [mm]	20	20	23	23	28	37
F-number	0.8	0.8	0.7	0.95	1.0	1.05

*only on demand

Pin Configuration (SPI)

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



Modifications reserved Rev.10 / 09.05.2017

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