

Overview Infrared Thermopile Array Sensors

HTPA Assortment (1/2)

Sensor	variants		FOV[°]****	default FPS [Hz]	typical Hi, NETD [mK] @1Hz@25°C	typical UHi, NETD [mK] @1Hz@25°C	MaxTemp default RefCal [°C]		MaxTemp RefCal0 [°C]		NO dual use	interface	TO-header
	Xenon	Vacuum					R2	R3	R2	R3			
HTPA8x8d													
HTPA8x8dR1L0.8/0.8F5.0	HiC	---	51 x 51	37	90	---	700	---	---	---	x	I ² C	TO-46
HTPA8x8dR1L2.1/0.8F5.0	HiC	---	19 x 19	37	105	---	900	---	---	---	x	I ² C	TO-46
HTPA16x16d (R2 or R3)													
HTPA16x16dL1.0/0.8F5.0	HiC	UHiC	>90 x 90	17.5	125	30	500	200	---	400	x	I ² C	TO-39
HTPA16x16dL1.6/0.8F5.0	HiC	---	46 x 46	17.5	210	---	700	---	---	---	x	I ² C	TO-39
HTPA16x16dL2.1/0.8F5.0	HiC	UHiC	44 x 44	17.5	135	35	500	200	---	400	x	I ² C	TO-39
HTPA16x16dL5.0/0.85F7.7	HiC	UHiC	16 x 16	17.5	145	35	1100	300	---	600	x	I ² C	TO-39
HTPA32x32d													
Single Optics													
HTPA32x32dR2L1.6/0.8F5.0	HiC	---	105 x 105	8.3	300	---	700	---	---	---	x	I ² C	TO-39
HTPA32x32dR2L1.7/0.8	HiC	---	120 x 120	8.3	180	---	300	---	500	---	x	I ² C	TO-39
HTPA32x32dR2L1.9/0.8	HiC	---	100 x 100	8.3	135	---	300	---	---	---	x	I ² C	TO-39
HTPA32x32dR2L2.1/0.8F5.0	HiC	---	94 x 94	8.3	220	---	500	---	800	---	x	I ² C	TO-39
HTPA32x32dR2L5.0/0.85F7.7e	HiC	---	34 x 34	8.3	220	---	1000	---	---	---	x	I ² C	TO-39
Dual Optics													
HTPA32x32dR2L4.0/0.7F7.7	HiC	---	41 x 41	8.3	140	---	700	---	---	---	x	I ² C	TO-39
HTPA60x40d													
HTPA60x40dL1.4/0.8	---	UHiC	120 x 68	21.2	---	50	TBD	---	TBD	---	x	SPI	TO-39
HTPA60x40dL1.9/0.8	---	UHiC	92 x 59	21.2	---	40	200	---	400	---	x	SPI	TO-39
HTPA60x40dL2.6/1.0	---	UHiC	60 x 39	21.2	---	105	TBD	---	TBD	---	x	SPI	TO-39
HTPA60x40dL4.0/0.8F6.0	---	UHiC	38 x 25	21.2	---	75	200	---	600	---	x	SPI	TO-39

Order Example: HTPA32x32dR2L5.0/0.85F7.7eHiC(sensor+ variant)

Standard parts with shorter delivery time

Available parts in sample quantities
 - Parts not in assortment / not available
 * estimated NETD
 ** on request
 *** estimated FOV
 **** 50% sensitivity FOV
 ***** in development



Overview Infrared Thermopile Array Sensors

HTPA Assortment (2/2)

Sensor	-----variants-----		FOV[°]****	default FPS [Hz]	typical Hi, NETD [mK] @1Hz@25°C	typical UHi, NETD [mK] @1Hz@25°C	MaxTemp default RefCal [°C]		MaxTemp RefCal0 [°C]	NO dual use	interface	TO-header
	Xenon	Vacuum					HiC	UHIC				
HTPA80x64d												
HTPA80x64dR2L3.9/0.8	HiC	UHIC	120 x 89	9	145	80	500	400	---	x	SPI	TO-8
HTPA80x64dR2L4.8/0.8	HiC	UHIC	88 x 67	9	165	75	500	400	---	x	SPI	TO-8
HTPA80x64dR2L10/0.7F7.7	HiC	UHIC	41 x 33	9	135	75	1100	600	---	x	SPI	TO-8
HTPA80x64dR2L10.5/0.95F7.7	HiC		39 x 31	9	220	---	1100	---	---	x	SPI	TO-8
HTPA80x64dR2L21.5/0.9	HiC	UHIC	19 x 15***	9	265	115	700	500	---	x	SPI	TO-8
HTPA80x64dR2L33/1.05	HiC**	UHIC**	12 x 10***	9	355	160	600	---	---	x	SPI	TO-8
HTPA160x120d												
HTPA160x120dR1L3.95/0.8	---	UHIC	121 x 81	9	---	180	---	400	---		SPI	TO-8
HTPA160x120dR1L10/072F7.7	---	UHIC	38 x 30	9	---	70	---	400	---		SPI	TO-8

Standard parts with shorter delivery time

Available parts in sample quantities
 — Parts not in assortment / not available
 * estimated NETD
 ** on request
 *** estimated FOV
 **** 50% sensitivity FOV
 ***** in development

Order Example: HTPA32x32dR2L5.0/0.85F7.7eHiC (sensor + variant)



Overview Infrared Thermopile Array Sensors



Order Code Example

HTPA32x32d	R2	L5.0/0.85	F7.7	e	Hi	M	(UDP)
1	2	3	4	5	6	7	8

		Description
1	Sensor Type	TP Array with 32x32 Pixel For all available HTPA and module combinations contact our support
2	Revision	Silicon revision 2
3	Optics	Focal length/F-Number Focal length: L5.0 = 5.0 mm F-Number: 0.85
4	Filter	F: Filter characteristics Not declared: Broadband AR Coating
5	External Aperture	Not declared: without external aperture e: with external aperture
6	Sensitivity	UHi: increased sensitivity Hi: default sensitivity Not declared: lower sensitivity (greater measurement range)
7	Version	A: Application Set: comes with GUI, housing, power supply C: Calibrated sensor M: Modul: HTPA sensor soldered to PCB, calibrated stream
8	Interface	UDP: Ethernet connection, CAT5 PoE: Power over Ethernet, CAT5* i ² C: 4 Pin Connector* USB: Power and data via USB 2.0** * Interface option is only available for modules (HiM) ** Interface option is only available for Application Set (HiA) *** Interface option is only available for calibrated sensors (HiC)