

Allwinner V3/V3s Lens Support List

General Description:

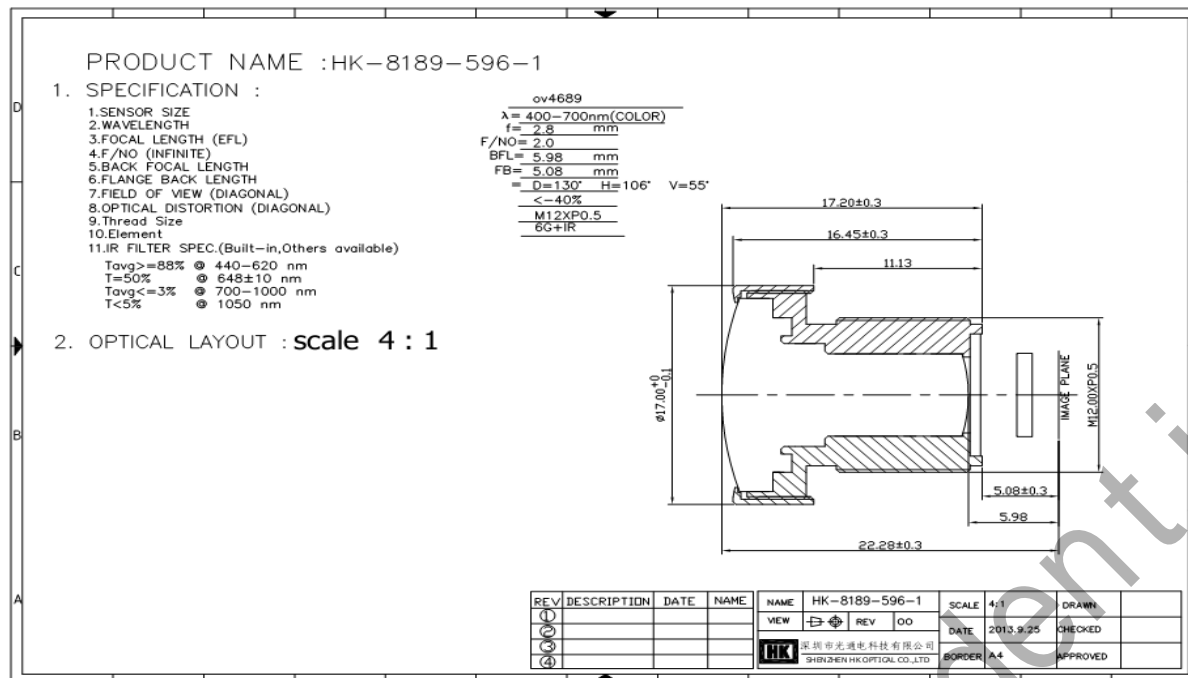
- 1.The purpose of this document is the guide of G-sensor selection for customer using our solution.
- 2.There are some G-sensor modules that not mentioned here. Since that is an universal device. So you can test it by yourself before mass production or send the sample to us for testing.
3. Please directly copy our PCB G-sensor Part Template and follow our PCB Layout Guide.

Abbr.	Definition
X	Do Not Support
N/T	Not Tested and Uncertain
D/S	Datasheet Support
S/T	Sample Tested
✓	Sample Tested and Mass Production

VENDOR	PART NUMBER	Sensor Supported and tested	hor_visual_angle	ver_visual_angle	EFL(mm)	F/NO	Element	Status
华科	HK-8189-596	OV2710	120	66	2.8	2.0	6G+IR	S/T
		OV4689	108	56				
		AR0330	106	55				
	HK-8214C-596	JX-H22	85	46	2.5	2.6	4G+IR	S/T
台亦	FL-G364A	OV2710	124	68	2.7	1.9	6G+IR	S/T
		OV4689	110	58				
		AR0330	108	57				
世大光电	ST_4056_A1	OV2710	112	62	3.15	2.0	6G+IR	S/T
		OV4689	96	52				
		AR0330	94	51				
	ST_6123_A1	OV2710	100	53	3.55	2.2	4G1P+IR	S/T
		OV4689	84	46				
		AR0330	82	45				

备注

1. FL-G364A尺寸与HK-8189-596相近，可相互替代。
2. 需将方案对应的hor_visual_angle与ver_visual_angle的值填到isp配置文件isp_tuning_param.ini的对应项中。



世大光電(ST Lens)				行車記錄器 專用鏡頭				2013/10/01更新				
傳感器 (sensor)	型號 (model)	有效焦距 (EFL)	光圈 (F/NO)	角度 (DFOV)	角度 (HFOV)	變型量(DIST)	總長(TT)	牙型/前外徑	構成 (Element)	機械背焦 (FB)	工作溫度 儲存溫度	像數 (Pixels)
1/2.5" (φ 7.2) (OV5100等等) (7.13*5.7*4.28)	ST 6099 A1	3.60	3.00	143	102	-67(-35%)	14.30	M12 φ 14	4G1P	3.59	65℃ / 85℃	5M (1080P)
	ST 6097 A6	3.35	2.80	142	107	-65(-38%)	20.85	M12 φ 14	4G1P	4.37	65℃ / 85℃	
	ST 6097 A7	3.35	2.40	142	107	-65(-38%)	20.85	M12 φ 14	4G1P	4.37	65℃ / 85℃	
	ST 6123 A1	3.55	2.20	130	100	-54(-32%)	22.15	M12 φ 14	4G1P	5.14	70℃ / 85℃	
	ST 4014 P7	3.50	2.00	130	100	-55(-34%)	21.79	M12 φ 14	4G	3.93	70℃ / 85℃	
	ST 4014 P9	3.50	2.00	130	100	-55(-34%)	21.79	M12 φ 14	4G	3.93	70℃ / 85℃	
1/2.7" (φ 6.7) (OV2710/12/15等) (6.7*5.85*3.27)	ST 6097 A10	3.35	2.40	130	110	-54(-38%)	20.85	M12 φ 15	4G1P	4.37	65℃ / 85℃	2M (1080P)
	ST 4056 A1	3.15	2.00	128	112	-49(-36%)	21.83	M12 φ 14	6G	4.99	70℃ / 85℃	
	ST 6131 A1	3.80	2.20	125	98	-54(-34%)	16.82	M12 φ 14	4G1P	4.01	70℃ / 85℃	
	ST 6099 A1	3.60	3.00	125	101	-52(-34%)	14.30	M12 φ 14	4G1P	3.59	65℃ / 85℃	
	ST 6123 A1	3.55	2.20	120	100	-46(-32%)	22.15	M12 φ 14	4G1P	5.14	70℃ / 85℃	
	ST 4014 P7	3.50	2.00	120	102	-46(-34%)	21.79	M12 φ 14	4G	3.93	70℃ / 85℃	
1/3.2" (φ 5.85) AR0330 /0331 (5.82*5.07*2.85)(5.63*4.5*3.38) OV5653 (5.85*4.6*3.42)	ST 4014 P13	3.50	2.00	120	102	-46(-33%)	21.79	M12 φ 14	4G	4.63	70℃ / 85℃	3M&5M (1080P)
	ST 6089 A2	2.70	2.60	145	119/105	-67/-45/-35%	20.07	M12 φ 14	4G1P	3.27	65℃ / 85℃	
	ST 6127 A2	2.70	2.60	137	116/103	-58/-43/-34%	21.19	M12 φ 14	4G1P	3.39	70℃ / 85℃	
	ST 4056 A2	3.15	2.40	110	94 / 85	-35/-24/-21%	21.83	M12 φ 14	6G	4.99	70℃ / 85℃	
	ST 6097 A2	3.35	2.40	110	91 / 83	-38/-26/-21%	20.85	M12 φ 15	4G1P	4.37	65℃ / 85℃	
	ST 6099 A1	3.60	3.00	102	86 / 78	-35/-23/-20%	14.30	M12 φ 14	4G1P	3.59	65℃ / 85℃	
	ST 4014 P11	3.50	2.00	103	86 / 80	-34/-23/-20%	21.76	M12 φ 14	4G	3.83	70℃ / 85℃	
	ST 6123 A1	3.55	2.20	98	82 / 77	-32/-22/-18%	22.15	M12 φ 14	4G1P	5.14	70℃ / 85℃	
	ST 6131 A1	3.80	2.20	98	82 / 75	-34/-24/-20%	16.82	M12 φ 14	4G1P	4.01	70℃ / 85℃	

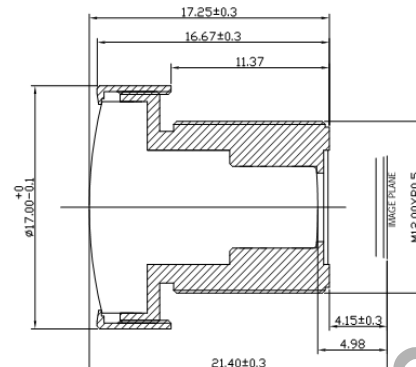
PRODUCT NAME : HK-8214C-596-1

1. SPECIFICATION :

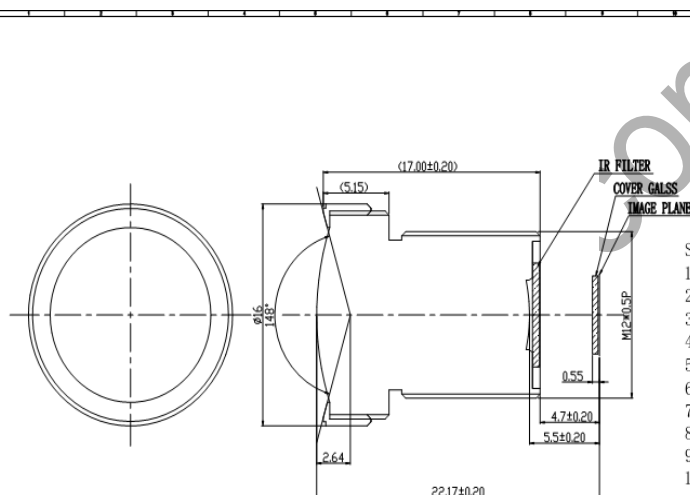
- 1.SENSOR SIZE
- 2.WAVELENGTH
- 3.FOCAL LENGTH (EFL)
- 4.F/NO (INFINITE)
- 5.BACK FOCAL LENGTH
- 6.FLANGE BACK LENGTH
- 7.FIELD OF VIEW (DIAGONAL)
- 8.OPTICAL DISTORTION (DIAGONAL)
- 9.Thread Size
- 10.Element
- 11.IR FILTER SPEC.(Built-in,Others available)
 - Tavg>=88% @ 440~620 nm
 - T=50% @ 648±10 nm
 - Tavg<=3% @ 700~1000 nm
 - T<5% @ 1050 nm

1/4"
 $\lambda = 400-700\text{nm}(\text{COLOR})$
 $f = 2.5 \text{ mm}$
 $F/\text{NO} = 2.6$
 $\text{BFL} = 4.98 \text{ mm}$
 $\text{FB} = 4.15 \text{ mm}$
 $\text{D} = 120^\circ \quad \text{H} = 85^\circ$
 $< -40\%$
 M12XP0.5
 $46+\text{IR}$

2. OPTICAL LAYOUT : scale 4 : 1



REV	DESCRIPTION	DATE	NAME	NAME	HK-8214C-596-1	SCALE	4:1	DRAWN	
①				VIEW	REV	OO	DATE	2014.11.5	CHECKED
②									
③									
④									



SPECIFICATION:

1. FOR : 1/2.7" (OV2710) SENSOR;
2. IMAGE HEIGHT: Ø6.8mm;
3. EFL: 2.70mm±5%;
4. BFL: 5.5±0.2mm;
5. F/NO: 1.9±5%;
6. FOV: 148° (Y=3.3);
7. DISTORTION: <-65%;
8. RELATIVE ILLUMINATION: >62%;
9. CONSTRUCTION: 6G+IR;
10. IR CUT FILTER : T50%=650±10nm

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