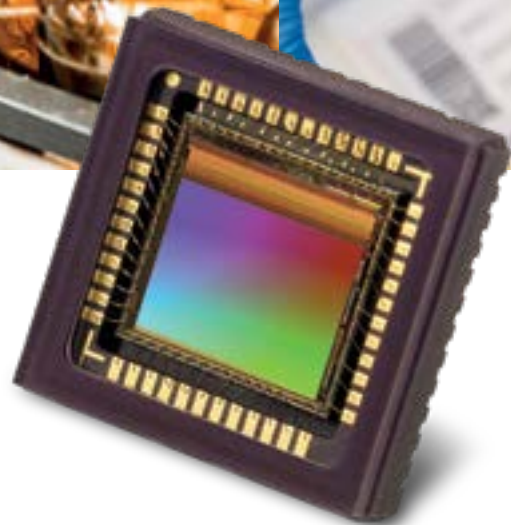


Standard CMOS Image Sensors



CMOS IMAGE SENSORS

Custom products also available

	NUMBER OF PIXELS		COLOR FILTER OPTION	PIXEL PITCH (μM)		OPTICAL FORMAT (INCHES/MM)	SHUTTER TYPE	OUTPUT FORMAT	FRAME RATE (10b)	MAXIMUM READOUT RATE (MHZ)	DYNAMIC RANGE (dB)	SNR MAX (dB)	PACKAGE TYPE	PACKAGE SIZE (MM)		HI-RES DEEP DEPLETION SILICON	COATING
	V	H		V	H									W	H		
Emerald 16M High Speed – EV2S16MB	4,096	4,096	Mono, Bayer	2.8	2.8	1	Global (GS)	LVDS from 8b to 12b	47	800	>66	38	CLGA224	20	25	No	No
Emerald 16M Std Speed – EV2S16MB	4,096	4,096	Mono, Bayer	2.8	2.8	1	Global (GS)	LVDS from 8b to 12b	23	800	>66	38	CLGA224	20	25	No	No
Emerald 12M High Speed – EV2S12MB	3,072	4,096	Mono, Bayer	2.8	2.8	1	Global (GS)	LVDS from 8b to 12b	63	800	>66	38	CLGA224	20	25	No	No
Emerald 12M Std Speed – EV2S12MB	3,072	4,096	Mono, Bayer	2.8	2.8	1	Global (GS)	LVDS from 8b to 12b	31	800	>66	38	CLGA224	20	25	No	No
ELITE4k2k	8 8	2,048 4,096	Mono, true RGB & Bayer	7.5 5.78	7.5 3.75	15.36	Global (GS) + Rolling (ERS)	LVDS 12b	200klps 100klps	314	54(GS)/68(RS)	41	Chip on Board (CoB) 60	33	39	No	Custom demand
Jade 0.5M* – EV76C454	640	860	Mono, Bayer, Sparse	5.8	5.8	1/2.9	Global (GS)	Parallel 8 bits	60 (80 at VGA)	48	>52 Linear/ >100 Lin/Log	>40	CLCC48	10	10	No	No
Sapphire 1.3M – EV76C560	1,024	1,280	Mono, Bayer	5.3	5.3	1/1.8	Global (GS) + Rolling (ERS)	Parallel 10 bit	60 (>100 at VGA)	120	62	42	CLCC48	12.7	12.7	No	Custom demand
Sapphire 2M – EV76C570/571	1,200	1,600	Mono, Bayer	4.5	4.5	1/1.8	Global (GS) + Rolling (ERS)	Parallel 10 bit	50 to 60	120	66	41.7	CLCC48	12.7	12.7	Custom demand	Custom demand
Sapphire WVGA – EV76C541	480	752	Mono, Bayer	4.5	4.5	1/4	Global (GS) + Rolling (ERS)	Parallel 10 bit	125	114	66	41.7	CLCC44	8.5	8	No	No
Ruby 1.3M – EV76C660	1,024	1,280	Mono, Bayer	5.3	5.3	1/1.8	Global (GS) + Rolling (ERS)	Parallel 10 bit	60 (>100 at VGA)	120	-	-	CLCC48	12.7	12.7	Yes	AR on glass lid
Ruby 1.3M – EV76C661	1,024	1,280	Mono, Bayer	5.3	5.3	1/1.8	Global (GS) + Rolling (ERS)	Parallel 10 bit	60 (>100 at VGA)	120	-	-	CLCC48	12.7	12.7	Yes	AR on glass lid
Onyx 1.3M – EV76C664	1,024	1,280	Mono, Sparse	10	10	1	Global (GS) + Digital Double Sampling (DDS) + Rolling (RS)	LVDS from 8b to 14b	100 (at 12bits)	250	58/67/74	42	PGA 67	25	25	Yes	AR on glass lid
Lince5M181	2,048	2,560	Mono, Bayer	5	5	1	Global (GS)	LVDS from 8b to 12b	250 (at 12bits)	345	58	42	μPGA181	28	28	No	Custom demand
Lince5M84	2,048	2,560	Mono, Bayer	5	5	1	Global (GS)	LVDS from 8b to 12b	69 (at 12bits), 105 (at 8bits)	288	58	42	CLCC84	23	23	No	Custom demand
Lince6M5	2,560	2,560	Mono, Bayer	5	5	1	Global (GS) + Rolling (ERS)	LVDS from 8b to 12b	170 (at 12bits)	288	58(GS)/62(RS)	42	uPGA179	28.7	28.7	No	Custom demand
LS4K	1 1	2,048 4,096	Mono	14 7	14 7	28.672	Rolling (ERS)	LVDS 12b	18klps to 55klps	168	65	48 45	Dual in-line 40	44	15.5	No	Custom demand

*Jade is not available for barcode scanning applications

Non-exhaustive list, limited to standard version of **Teledyne e2v** sensors. Other sensors are potentially available under restricted conditions. Note: Whilst **Teledyne e2v** has taken care to ensure the accuracy of the information contained herein, it accepts no responsibility for the consequences of any use thereof and also reserves the right to change specification of goods without notice. **Teledyne e2v** accepts no liability beyond that set out in its standard conditions of sale in respect of infringement of third party patents arising from the use of devices in accordance with the information contained herein. Not all combinations of variants are available for a single device. Users are advised to contact **Teledyne e2v** to confirm if their particular requirements are available with a standard device before designing their system.



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