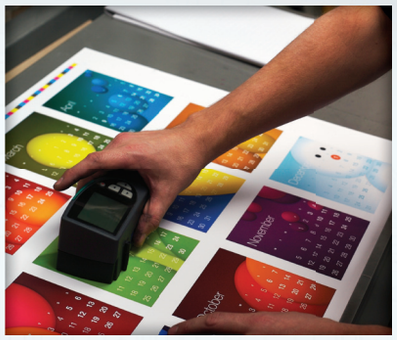
TAOS
an austriamicrosystems subsidiary

LINEAR SENSOR ARRAYS FOR IMAGING & SPATIAL MEASUREMENT

Exceptional in reading small changes in distance, position, or rotation with the highest accuracy.

Linear sensor arrays from TAOS consists of a linear array of integrating photosensing pixels which measure incident light over a user-defined exposure time and generate a voltage or digital output which represents the light exposure at each pixel. The linear sensor arrays are available in a variety of lengths and pixel resolutions (DPI). The analog output may be directly interfaced to an ADC for digital processing or comparing for black/white thresholding.



How Our Linear Sensor Arrays Operate:

Each pixel is an independent light sensor with its own photodiode and amplifier circuitry. The output for each pixel (analog or digital) is serially shifted out and read by the microcontroller. Analog values are then shifted out serially using a digital start pulse and a clock

FEATURES & BENEFITS:

– Available in **multiple lengths** and **pixel resolutions**
– **Fast image scan rate** of up to 34us min light measurement
– **Up to 8mm active area** for light detection
– **Rail-to-Rail output** for wide dynamic range

Product	DPI	Pixels	Integration	Maxim Clock Speed	Voltage Range	PACKAGE SELECTION CS	CL	P	PCB
TSL1401	400	128	Frame by Frame	8 MHz	3-5.5V	x	x	-	-
TSL1402R	400	256	Frame by Frame	8 MHz	3-5.5V	-	-	x	-
TSL1406R	400	768	Frame by Frame	8 MHz	3-5.5V	-	-	-	x
TSL1410R	400	1280	Frame by Frame	8 MHz	3-5.5V	-	-	-	x
TSL1412S	400	1536	Frame by Frame	8 MHz	3-5.5V	-	-	-	x
TSL201	200	64	Start/Stop per Pixel	5 MHz	4.5-5.5V	-	x	-	-
TSL2014	200	896	Start/Stop per Pixel	5 MHz	4.5-5.5V	-	-	-	x
TSL202R	200	128	Start/Stop per Pixel	5 MHz	4.5-5.5V	-	-	x	-
TSL208R	200	512	Start/Stop per Pixel	5 MHz	4.5-5.5V	-	-	-	x
TSL210	200	640	Start/Stop per Pixel	5 MHz	4.5-5.5V	-	-	-	x
TSL3301CL	300	102	Frame by Frame	1 Mhz	3-5.5V	-	x	-	-

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