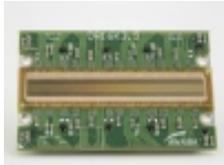


# DRAGSTER LINE SCAN

## LINE SCAN SENSORS



Designing high-speed high-resolution line-scan sensors were always in the core of AWAIBA's development activities.

Repeatedly, AWAIBA has set a benchmark in the resolution and speed sensitivity of its custom line scan sensor design. With the Dragster series of digital line scan sensors AWAIBA offers a series of standard line scan sensors. Armed with ease of integration the Dragster line scan series remains unequalled in sensitivity, bandwidth, and SNR. Dragster is the most complete digital line scan sensor family available on the market. All sensors share the same electrical interface and are mainly pin compatible with each other. The Dragster sensors are highly scalable which make them ideal for various applications. In addition, they can easily be integrated in standard cameras or image processing boards.

The sensor can be delivered without cover glass upon request.

For pricing and lead time please contact [cis\\_orders@ams.com](mailto:cis_orders@ams.com).

### SPECIFICATIONS

<b>Resolution</b>	2k up to 24k
<b>Pixel size</b>	7 x 7 and 3.5 x 3.5
<b>Shutter type</b>	Global shutter
<b>Frame rate</b>	up to 80k scans/s
<b>Output interface</b>	13 bit
<b>Sensitivity</b>	77 DN/n/cm <sup>2</sup> (@12bit)
<b>Conversion gain</b>	0.076 DN/e <sup>-</sup>
<b>Full well charge</b>	46 ke <sup>-</sup>
<b>Dark noise</b>	22 e <sup>-</sup> rms
<b>SNR max</b>	44
<b>Dark current</b>	3 e <sup>-</sup> /ms
<b>Fixed pattern noise</b>	DSNU: 4 [DN] PRNU: 0.7%
<b>Chroma</b>	Mono and RGB
<b>Supply voltage</b>	3.3 V
<b>Power</b>	400 mw per 2K segment
<b>Operating temperature range</b>	0°C - 60°C
<b>Package</b>	LCC or Invar
<b>Socket</b>	Andon Electronics ( <a href="http://www.andonelectronics.com">http://www.andonelectronics.com</a> ) Dragster LCC: 690-90-SM-G10-L14-0 Rev1

## ORDERING INFO - DRAGSTER LINE SCAN

Part Number	Version	Chroma	Microlens	Package	Glass
DR-B&W-2K-7-LCC	7 x 7 um	Mono	No	LCC	2 sided ARC
DR-B&W-2K-7-Invar	7 x 7 um	Mono	No	Invar	2 sided ARC
DR-B&W-2x2K-7-LCC	7 x 7 um	Mono	No	LCC	2 sided ARC
DR-RGB-2x2K-7-LCC	7 x 7 um	RGB Bayer	No	LCC	2 sided ARC
DR-B&W-2x2K-7-Invar	7 x 7 um	Mono	No	Invar	2 sided ARC
DR-RGB-2x2K-7-Invar	7 x 7 um	RGB Bayer	No	Invar	2 sided ARC
DR-B&W-4K-3.5-LCC	3.5 x 3.5 um	Mono	No	LCC	2 sided ARC
DR-B&W-4K-3.5-Invar	3.5 x 3.5 um	Mono	No	Invar	2 sided ARC
DR-B&W-4K-7-Invar	7 x 7 um	Mono	No	Invar	2 sided ARC
DR-B&W-2x4K-7-Invar	7 x 7 um	Mono	No	Invar	2 sided ARC
DR-RGB-2x4K-7-Invar	7 x 7 um	RGB Bayer	No	Invar	2 sided ARC
DR-B&W-6K-7-Invar	7 x 7 um	Mono	No	Invar	2 sided ARC
DR-B&W-8K-3.5-Invar	3.5 x 3.5 um	Mono	No	Invar	2 sided ARC
DR-B&W-8K-7-Invar	7 x 7 um	Mono	No	Invar	2 sided ARC
DR-B&W-2x8K-7-Invar	7 x 7 um	Mono	No	Invar	2 sided ARC
DR-RGB-2x8K-7-Invar	7 x 7 um	RGB Bayer	No	Invar	2 sided ARC
DR-B&W-16K-3.5-Invar	3.5 x 3.5 um	Mono	No	Invar	2 sided ARC
DR-B&W-24K-3.5-Invar	3.5 x 3.5 um	Mono	No	Invar	2 sided ARC