



adept electronic

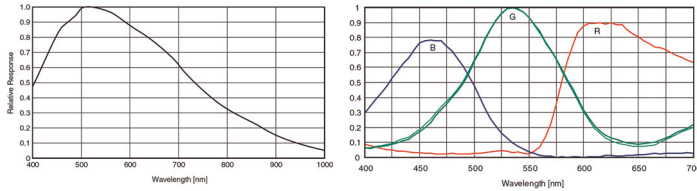
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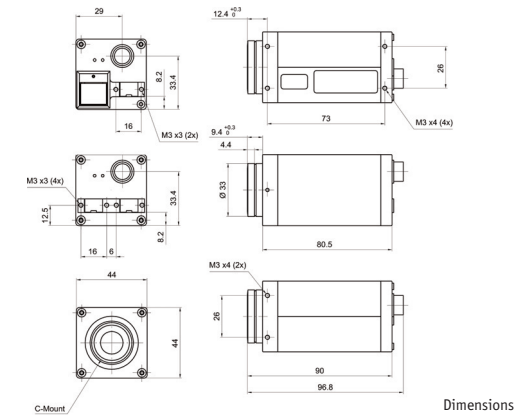
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AVT PIKE F-505B / F-505C
AVT PIKE F-505B / F-505C fiber



Sensor specifications b/w; color
(extracted from the data sheet of the sensor - excluding lens and filter)



Copper / Daisy Chain
Copper / GOF connections



AOI height / pixel	Frame rate / fps
2054	15*
1200	20
1024	22
960	23
600	28
480	30
240	36
120	40
60	43
30	44

* at 11000 bytes per packet

Pin	Signal
1	External GND
2	External Power (8...36V DC)
3	GP Output 4
4	GP Input 1 (Default: Trigger)
5	GP Output 3 (Default: Busy)
6	GP Output 1 (Default: IntEna)
7	GP Input GND
8	RxD (RS-232)
9	TxD (RS-232)
10	GP Output Power (max. 35 V DC)
11	GP Input 2 (CMOS/TTL)
12	GP Output 2

Camera Specifications

	PIKE F-505 B/C	PIKE F-505 B/C fiber
Image device	Type 2/3 (diag. 11.016 mm) progressive scan, SONY CCD	
Picture size	2452 (H) x 2054 (V) (all modes and color formats)	
Cell size	3.45 µm x 3.45 µm	
Resolution depth	8 bit / 10 bit / 12 bit / 14 bit / 16 bit (High SNR mode)	
Lens mount	C-Mount / M39-Mount	
Digital interface	IEEE1394b, 2 x bilingual (daisy chain)	IEEE1394b, 1 x bilingual, 1 x GOF connector (2 x optical fiber on LCLC)
Transfer rate	100 Mbit/s, 200 Mbit/s, 400 Mbit/s, 800 Mbit/s	
Frame rates	Up to 15* fps (Mono8, Raw8), 12* fps (YUV 4:1:1), 9* fps (YUV 4:2:2, Raw16), 6* fps (RGB8)	
Gain control	mono: Manual 0-24 dB, auto gain; color: Manual 0-24 dB, auto gain	
Shutter speed	27 µs ... ~ 67 s, auto shutter (select. AOI)	
External trigger shutter	Programmable, trigger level control, single trigger, bulk trigger, programmable trigger delay	
Smart features	AGC/AEC/AWB with autofunction AOI; only color: AWB/color correction/hue/saturation; real-time shading correction, LUT, 64 MB image memory, mirror, binning (only b/w), sub-sampling, High SNR, storable user sets, 2 progr. inputs, 4 progr. outputs, RS-232 port, SIS [secure image signature], sequence mode, anti-smear mode, 4x/8x binning, 12-bit speed increase mode	
Power requirements	DC 8 – 36 V via IEEE1394 cable or 12-pin HIROSE	
Power consumption	Typ. 5.75 watt (@ 12 V DC)	fiber: Typ. 6.50 watt (@ 12 V DC)
Dimensions	96.8 mm x 44 mm x 44 mm (incl. connectors, without lens)	
Mass	250 g (without lens)	
Operating temperature	+5 ... +50 °Celsius housing temperature (without condensation)	
Storage temperature	-10 ... +60 ° Celsius ambient temperature (without condensation)	
Regulations	CE, FCC Class B, RoHS (2002/95/EC)	
Options	IR cut/pass filter (mono), protection glass (color), host adapter card, angled head, power out (HIROSE), AVT FirePackage/Active FirePackage/Fire4Linux	

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