

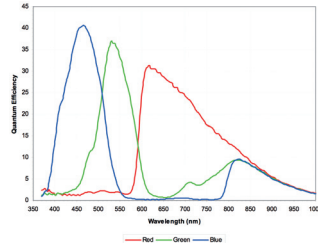
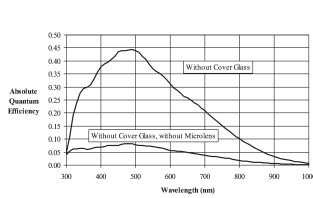


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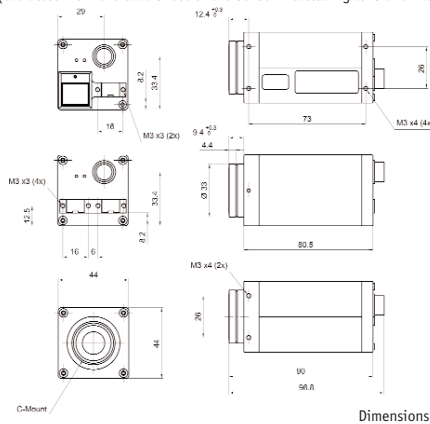
**The Machine Vision and  
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**AVT PIKE F-100B / F-100C**  
**AVT PIKE F-100B / F-100C fiber**



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
1000	60
600	87
480	102
240	149
120	193
60	225
30	251
10	268

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-100 B/C	PIKE F-100 B/C fiber
Image device	Type 2/3 (diag. 10.5 mm) progressive scan, KODAK CCD	
Effective picture elements	1004 (H) x 1004 (V)	
Picture size	1000 (H) x 1000 (V) (all modes and color formats)	
Cell size	7.4 µm x 7.4 µm	
Resolution depth	8 bit / 10 bit / 12 bit / 14 bit / 16 bit (High SNR mode)	
Lens mount	C-Mount	
Digital interface	IEEE1394b, 2xbilingual(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 60 fps (Mono8, Raw8), 43 fps (YUV 4:1:1), 33 fps (YUV 4:2:2, Raw16), 22 fps (RGB8)	
Gain control	mono: Manual 0-22 dB, auto gain;	color: Manual 0-20 dB, auto gain
Shutter speed	43 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, 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 V – 36 V (via IEEE 1394 cable or 12-pin HIROSE)	
Power consumption	Typ. 5 watt (@ 12 V DC)	fiber: Typ. 5.75 watt (@ 12 V DC)
Dimensions	96.8 mm x 44 mm x 44 mm (L x W x H); incl. connectors, w/o trippod and 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	EN 55022, EN 61000, EN 55024, FCC Class B, DIN ISO 9022, RoHS (2002/95/EC)	
Options	IR cut/pass filter (mono), protection glass (color), host adapter card, angled head, power out (HIROSE), AVT FirePackage/Direct FirePackage/Fire4Linux	