

# Biclops PT (Rev H) Specifications

Parameter	Value			Units	Notes
	Min	Typ	Max		
<b>Physical Aspects</b>					
Height		6		inches	
Width		4		inches	
Depth		4.125		inches	
Tilt axis height		4.8		inches	axis center above mounting surface
Weight		2		pounds	
Color		Blue			other colors available with special volume orders
mount					1/4-20 x3/16DP or 4 #6 screws on 3.25" grid
<b>Environmental Ratings</b>					
Operating temperature	-40		85	Celcius	
Weatherization	IP-60	IP-60	IP-64		per IEC 529, dust tight, IP-64 rating is optional
<b>Performance</b>					
Tilt range	±60	±90		degrees	may be limited to ±60 with limit pin
Pan range		±175	±180	degrees	optional extended range
Load Mass			4	kg	
Output torque			1.3(.95)	N-m(ft-lb)	
Angular velocity			170	deg/sec	
Angular acceleration			3000	deg/sec <sup>2</sup>	unloaded
Angular resolution		1.8		arc-min	12000 encoder counts/revolution
Angular accuracy		±1/2		encoder count	calibrated at factory
<b>Power Requirements</b>					
Voltage	9	24	36	volts	regulated or unregulated DC
Power	1.5	10	20	watts	
<b>Camera/sensor mounting</b>					
monocular mount (-M)					standard 1/4-20 screw mount at center, removable for custom mods
stereo mount (-S)					extra pairs of 1/4-20 holes at 4", 5", 6", and 7" baseline separation
<b>Communication</b>					
RS-232	9600		115.2k	baud	default is 9600 8-N-1
USB 2.0 full speed	9600		416k	bps	uses virtual serial port driver on PC
Protocol					binary format
Software					C++ API on Linux or MS Windows 2000/XP, source code included
<b>Connectors</b>					
RS-232					DB-9 female on 24" cable
USB					USB Type A on 1m cable
Power					Switchcraft EN3P4M weathertight connector (mates with EN3C4F)
Communication					Switchcraft EN3P6M weathertight connector (mates with EN3C6F)
<b>Available options</b>				<b>Option ID</b>	
Stereo mount				S	append to end, e.g. PT-MX for extended range option
Weatherization				W	sealed to IP64 rating
roll axis				R	specify model PTR instead of PT
custom internal signal routing				I	routing of up to 12 signals from back of unit to back of tilt axis using Hirose HR10A connectors. Reduces wiring mess
Extended pan range				X	
Analog Input connector				A	Route 8 PCB analog inputs to connector on back of tilt axis (6 inputs with -O option). May be combined with -I option. Consult factory
<b>Accessories</b>					
international power supply				PS	110-220AC in, 24V@0.83A DC out
Additional power connector				PSC	