## Biclops PT (Rev I) Specifications

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Parameter	Min	Valu Typ	e Max	Units	Notes
Physical Aspects  Height Width Depth Tilt axis height Color mount		6 4.72 4.75 1.04 Blue		inches inches inches inches kilograms	actual height 6.002" (152.44mm) tube and base flange, screw heads extend beyond this maximum extent from front to tip of on/off switch axis center above mounting surface  Pantone 286, other colors available with volume orders 1/4-20 x3/16DP or 4 #6 screws on 3.25" grid
Environmental Ratings Operating temperature Weatherization	-40 IP-60	IP-60	85 IP-64	Celcius	per IEC 529, dust tight, IP-64 rating is optional
Performance Tilt range Pan range Load Mass Output torque Angular velocity Angular acceleration  Angular resolution Angular accuracy	±60	±60 ±180	4 1.3(.95) 170	degrees degrees kg N-m(ft-lb) deg/sec deg/sec² arc-min encoder count	max range available by removing tilt limit screw  unloaded 20000 encoder counts/revolution (higher resolutions available) after calibration by customer-run application
Power Requirements  Voltage Power	9 1.5	24 10		volts watts	regulated or unregulated DC
Camera/sensor mounting monocular mount (-M) stereo mount (-S)					See options below for details. Mounts may be removed for attaching loads
Communication  RS-232  USB 2.0 full speed  Protocol  Software			115.2k 416k		default is 9600 8-N-1 uses virtual serial port driver on PC binary format C++ API on Linux or MS Windows 2000/XP, source code included
Connectors  RS-232 USB  Power  Communication					DB-9 female on 24" cable USB Type A on 1m cable Switchcraft EN3P4M weathertight connector (mates with EN3C4F) Switchcraft EN3P6M weathertight connector (mates with EN3C6F)
Available options  monocular mount				Option ID	append optional features to end, e.g. PT-MW for monocular mount with weatherization  provides one centrally located countersunk 1/4-20 pass through hole and a threaded 4-40 hole for anti-rotation pin. Includes one 1/4-20 x 3/8" load screw and one 4-40 x 1/4" screw. This option is included with basic unit.
stereo mount Weatherization roll axis orientation sensor custom internal signal routing  Analog Input connector Accessories				S W R O	Same as -M option, but with additional mounting pairs at 4, 5, 6, and 7-inch separation. Includes two 1/4-20 x 3/8" load screws and two 4-40 x 1/4" anti-rotation screws. sealed to IP64 rating specify model PTR instead of PT internal 2-axis attitude sensor aligned with base routing of up to 12 signals through pan axis to reduce wiring difficulties. Uses Hirose HR10A connectors. Provides 8 analog inputs to connector on back of tilt axis (6 inputs with -O option). May be combined with -I option. Consult factory for details
international power supply Additional power connector				PS PSC	110-220AC in, 24V@0.83A DC out Switchcraft EN3C4F