High Torque, High Performance Pan & Tilt

SS109HT/SS110HT/SS120HT

SS109HT

SS110HT

Features

- **Torque:** 14 ft. pounds / 19 Nm (each axis)
- **Rotation Speed:** Up to 20° per second
- **Scan Range:** 360° both axis / 180° tilt axis with yoke
- **Depth Rates:** 6000 meters
- **Positional Accuracy:** 0.1°
- **Reversible synchronous motors**
- **Low backlash harmonic drives**

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System Supplier   Project Management   System Installation and Commissioning   Complete System Integration   Technical Documentation

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Specifications subject to change without notice and products described herein are subject to specific disclaimer
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SDVOSB

Specifications

PAN AND TILTS			
Environmental	**SS109HT**	**SS110HT**	**SS120HT**
Operating Depth	100 feet / 30.5 meters (air filled)		
	10,000 feet / 3,050 meters (oil filled)		
	18,000 feet / 6,000 meters (ext. compensation)		
Operating Temperature	10° to 120° F (-23° to 49° C)		
Electrical	**SS109HT**	**SS110HT**	**SS120HT**
Power	120 VAC, 24 VAC & 24 VDC		
Connector	Customer Selectable Conductor Requirements: 4-8		
Optional	Preset internal mechanical or software control limits		
Mechanical	**SS109HT**	**SS110HT**	**SS120HT**
Housing	Hard Anodized Aluminum	316L Stainless Steel	6AI4V Titanium
Height	8.2 in / 207 mm		
Width	6.6 in / 169 mm		
Depth	3.3 in / 84 mm		
Weight (in air)	9.3 lbs. / 4.2 kg	19.3 lbs. / 8.7 kg	12.0 lbs. / 5.5 kg
Weight (in water)	5.9 lbs. / 2.7 kg	13.7 lbs. / 6.2 kg	7.0 lbs. / 3.2 kg
Torque	14 ft. pounds / 19Nm (each axis)		
Rotation Speed	Up to 20° per second		
Positional Accuracy	0.1°		
Gear Backlash	36 arc minutes		
Scan Range	360° both axis / 180° tilt axis with yoke		
Controls	**SS109HT**	**SS110HT**	**SS120HT**
Recommended Controls	SS201 Series Desktop / Flush Mount SS202 Serial Control RS485 / RS232 / Custom RS422 Laptop/PC with SIDUS Control Panel GUI		
Optional Controls	Optional integrated functions, Pelco-D Keyboard, mouse or joystick control digital feedback option		

Specifications

<table>
<tr><td colspan="4" align="center">Pan and Tilt</td></tr>
<tr><td>Options</td><td>SS109HT</td><td>SS110HT</td><td>SS120HT</td></tr>
<tr><td>Recommended Controls</td><td colspan="3">SS201 Series Desktop / Flush Mount
SS202 Serial Control RS485 / RS232 / Custom RS422
Analog with feedback</td></tr>
<tr><td>Control Methods</td><td colspan="3">Laptop/PC with SIDUS Control Panel GUI
Optional integrated functions, Pelco-D
Keyboard, mouse or joystick control
Digital feedback option (requires 2 additional conductors)
DC Brake option for Analog configuration (requires additional conductors)</td></tr>
<tr><td>Accessories</td><td>SS109HT</td><td>SS110HT</td><td>SS120HT</td></tr>
<tr><td>Bracket & Mount</td><td colspan="3">907 Series: Standard base plates for mounting in any position
CS Series: Custom specified mounting plates</td></tr>
</table>

Connector Pin Outs

PIN	Function
1	Ground
2	+24 VDC
3	N/C
4	D+
5	D-

PIN	Function
1	Ground
2	Tilt CCW
3	Tilt CW
4	Pan CW
5	Pan CCW

PIN	Function
1	Ground
2	+24 VDC
3	Signal Ground
4	RX
5	TX
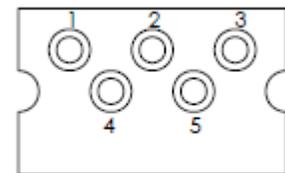
FAWL-5P-BC

PIN	Function	PIN	Function
1	Ground	5	Pan CCW
2	Tilt CCW	6	Tilt Feedback
3	Tilt CW	7	Pan Feedback
4	Pan CW	8	Not Connected
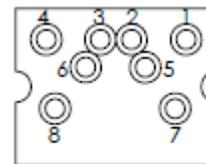
FAWM-8P-BC

Height, Width and Depth Dimensions

6.64 [168.6]

6.25 [158.6]

8.15 [207.1]

□1.75 [44.4]

□1.25 [31.8]

3.68 [93.5]

⌀3.31 [84.1]

5.41 [137.5]

.50 [12.7]

2X 1/4-20 UNC ⤓ .50 [12]

□.68 [17.4] ±.002

DETAIL A
SCALE 1 : 2
TYPICAL BOTH AXIS

.29 [7.4] TYP.