


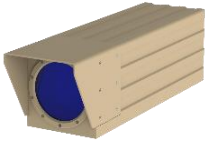

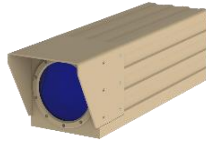
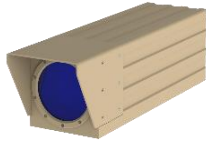


Comparison of key parameters for CST's SPECTREL series of mid- and long-range zoom camera systems

Parameter	SP-12120/336	SP-13165/336	SP-12200/336	SP-12375/336	SP-12750/336	SP-121000/336	SP-121000/334
							
Resolution (camera core, effective pixels, Pal)	976 x 582 pixels	976 x 582 pixels	976 x 582 pixels	976 x 582 pixels	976 x 582 pixels	976 x 582 pixels	1296 x 736 Pixels
Video output	Composite VBS	Composite VBS	Composite VBS	Composite VBS	Composite VBS	Composite VBS	HD-SDI (720p)
Optical zoom range	8 to 120mm (15x)	5.5 to 165 mm (30x)	11 to 200 mm (18x)	15 to 375 mm (25x)	30 to 750 mm (25x)	30 to 1000 mm (33x)	30 to 1000 mm (33x)
HFOV range	35° to 2.3°	46° to 1.7°	25.1° to 1.4°	17° to 0.7°	9° to 0.4°	9° to 0.3°	9° to 0.3°
Detection distance up to human	6.4 km	8.8 km	11.2 km	15.7 km	18 km	19 km	19.9 km
Recognition distance up to human	1.5 km	2.2 km	2.9 km	4.6 km	6.4 km	7.5 km	8.5 km
Identification distance up to human	1.1 km	1.7 km	2.2 km	3.7 km	5.3 km	6.3 km	7.3 km
Dimensions in mm (W x H x L) excl. connectors	130 x 105 x 240.5	120 x 123 x 341	120 x 123 x 341	148 x 156.2 x 530.5	148 x 156.2 x 530.5	148 x 156.2 x 530.5	148 x 156.2 x 530.5
Graphical overlays	Yes	Yes	Yes	Yes	Yes	Yes	No

Detection and recognition distances are based on the SSIP CAM program. Conditions for distances: Visual band 400-1000nm, Contrast=30%, Over cast daylight, Sky ratio=3, Visibility 80 km, 50 % probability. Actual values will vary acc. to conditions.

COMMON KEY FEATURES:





- -40°C to +70°C operating temperature range
- True Day/Night Mode (switchable color/mono + Near-IR)
- High speed motorized zoom with Autofocus-On-Demand
- Sealed protective housing, IP 67
- Highly accurate boresight retention (line of sight stability)

Detailed specifications can be found under
each product at www.copst.com

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Comparison of key parameters for CST's SPECTREL series

Continued..

Parameter	SP-Alignment Camera	SP-DUAL 121000/336	SP-DUAL 121000/336 LRF <i>On request</i>	SP- Laser illuminator
				
Resolution (camera core, effective pixels, Pal)	976 x 582 pixels	976 x 582 pixels (in both long-range and short-range camera)	976 x 582 pixels & Laser Range Finder	Wavelength: 808nm
Video output	Composite VBS	Composite VBS	Composite VBS	Not relevant
Optical zoom range	None	30 to 1000 mm (33x) and 14mm	30 to 1000 mm (33x)	Not relevant
HFOV range	52° to 5.6° fixed factory setting	9° to 0.3° and 20° fixed	9° to 0.3°	Beam angle 9.3° to 0.37°
Detection distance up to human	2.2 km @ 6° HFOV *	19 km	Visual camera 19 km, Laser Range Finder up to 20 km	Expected Illumination range is 6-8km depending on conditions and camera performance
Recognition distance up to human	1.3 km @ 6° HFOV *	7.5 km	7.5 km	
Identification distance up to human	0.34 km @ 6° HFOV *	6.3 km	6.3 km	
Dimensions in mm (W x H x L) excl. connectors	76.4 x 63.2 x 177.9	157 x 236 x 436.5	157 x 236 x 436.5	148 x 156.2 x 530.5
Graphical overlays	Yes	Yes	Yes	No

Detection and recognition distances are based on the SSIP CAM program. Conditions for distances: Visual band 400-1000nm, Contrast=30%, Over cast daylight, Sky ratio=3, Visibility 80 km, 50 % probability. Actual values will vary acc. to conditions.

* calculated according to Johnson Criteria

COMMON KEY FEATURES:

- -40°C to +70°C operating temperature range
- Sealed protective housing
- Highly accurate boresight retention (line of sight stability)