Seon™ 1100
miniature pan / tilt dome camera

Swiss Made

Highlights

- Small and attractive design that is only 12.0 cm (4.7 inches) in diameter and 8.5cm (3.4 inches) high
- Robust, long-life, variable speed pan-tilt mechanism with 0 to 180° pan and +10 to -90° tilt movement
- Manual pan and tilt control from 0.5 to 37°/sec. with preset acquisition at up to 200°/sec.
- Inbuilt active twisted pair transmitter for direct compatibility with CAT-5 structured cabling systems
- Easy, snap-fix, surface-mount design
- Optional module with 4 alarm inputs for automatic call of presets

Features

- High 450 TV-line resolution, wide dynamic range colour camera with AGC, auto-tracing white balance (AWB) and automatic back-light compensation
- Choice of 6mm or 8 mm lens and clear or tinted bubble
- Up to 32 programmable presets with 0.1° targeting accuracy
- Auto recovery following power failure without loss of presets
- Compatible with RS-485 and RS-422 telemetry protocols
- Compatible with traditional coaxial cable based video systems
- Wide 12 ~ 24V AC or DC supply range and low 4.5 Watt (max.) power consumption

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Seon™ 1100 — miniature pan-tilt dome camera

Technical details

Camera

CCD	Sony 1/4" interline field accumulation
Active pixels (H x V)	752 x 582 (PAL) or 768 x 492 (NTSC)
Horizontal resolution (min.)	450 TV-lines
S/N ratio	48dB (with AGC OFF)
Minimum illumination	1.0Lux
	(50% video output level, AGC ON, F1.4)
AGC	On (preset)
ALC	On (preset)
BLC	On (preset)
White balance	ATW (preset)
Synchronization	Internal synchronization
Video output	1Vpp unbalanced composite signal
	2Vpp balanced composite signal

Lens

	Std. lens	Wide lens
Focal length	8.0mm	6.0mm
Horizontal angle of view	25.5°	34.0°
Vertical angle of view	18.9°	25.4°
Aperture	F2.8	F2.8

Pan-tilt mechanism

Pan range	±90° (180°)
Tilt range	+10 to -90° (100°)
Pan & tilt speed	200°/sec. max. (preset calls)
	0.5 ~ 37°/sec. (joystick control)
Presets	32 (non-volatile memory)
Preset accuracy	±0.1°
Design MTBF	>500,000 targeting operations

Electromechanical

I/O connector	RJ-45 (includes pigtail cable for local power & coaxial video cabling)
Power requirements	12 ~ 24VAC/DC
Power consumption	4.5W (max.)
Operating temperature	0 ~ +45°C (32 ~ 122°F)
Humidity	90% max. (operating)
	95% max. (storage)
Dimensions	120mm x 85mm (Ø x H)
Mounting	Surface mount, directly on ceiling
Weight	400g (0.9lbs) approx.

Certifications

Safety standards	EN 60065:1998
EMC standards	EN 50130-4:1996
	EN 55022 Class B:1998
	EN 61000-3-2
	EN 61000-3-3
	FCC part 15 Class B

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Product order codes

SMD1100-P4-08-CX[1]	PAL, RS-422/485, 8mm lens, clear
SMD1100-P4-08-TX[1]	PAL, RS-422/485, 8mm lens, tinted
SMD1100-P4-06-CX[1]	PAL, RS-422/485, 6mm lens, clear
SMD1100-P4-06-TX[1]	PAL, RS-422/485, 6mm lens, tinted
SMD1100-N4-08-CX[1]	NTSC, RS-422/485, 8mm lens, clear
SMD1100-N4-08-TX[1]	NTSC, RS-422/485, 8mm lens, tinted
SMD1100-N4-06-CX[1]	NTSC, RS-422/485, 6mm lens, clear
SMD1100-N4-06-TX[1]	NTSC, RS-422/485, 6mm lens, tinted
SMD1104	Alarm module (see separate datasheet)

X[1] - firmware version

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Camera selection guidelines

Field of view with standard 8mm lens

Object distance (metres)	Horizontal (metres)	Vertical (metres)
2	0.91	0.67
4	1.81	1.33
6	2.72	2.00
8	3.62	2.66
10	4.53	3.33
12	5.43	3.99
14	6.34	4.66

Field of view with wide-angle 6mm lens

Object distance (metres)	Horizontal (metres)	Vertical (metres)
2	1.22	0.90
4	2.45	1.80
6	3.67	2.70
8	4.89	3.61
10	6.11	4.51
12	7.34	5.41
14	8.56	6.31

Screen height of 1.6m tall object at various distances

Object distance (metres)	Standard 8.0 mm lens	Wide 6.0 mm lens
2	239%	178%
4	120%	89%
6	80%	59%
8	60%	44%
10	48%	35%
12	40%	30%
14	34%	25%

Snap-fix mounting plate
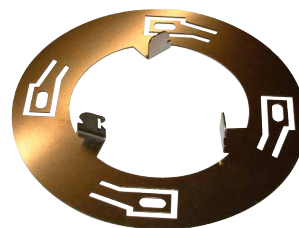
Pigtail break-out cable

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