Good pictures, good looking

The Seon™ 1100 mini-dome integrates a robust variable speed pan-tilt mechanism with a high performance DSP colour camera. Its small elegant form makes it the ideal camera for indoor surveillance applications. Seon™ 1100 fits unobtrusively within any decor and provides crisp full-colour images.

Truly effective surveillance systems provide both good quality pictures and maximum deterrence of would-be felons. Seon™ 1100 excels in both areas, providing unsurpassed detailed images and maximum deterrence because it is readily identifiable as a camera and yet, unlike traditional fixed cameras, observers are unsure exactly where it is pointed.

Capture the action

State-of-the-art variable speed drives for pan and tilt allow operators to manually follow activity whether it be moving at 0.5° or 60° per second. When used with suitable controllers, Seon™ 1100 will move to any of 32 preset positions at up to 200° per second making it ideal for use in verifying alarms or for access control applications.

Cost effective solution

Seon™ 1100 is the cost effective choice for those applications where cameras are required to be occasionally realigned to oversee temporary displays or moveable exhibits in galleries, hotel and office foyers, showrooms and department stores.

An installer's dream

Integrating Seon™ 1100 minidomes within older systems as a replacement for existing cameras or as a system extension could not be easier. Seon™ 1100 domes are ready to connect to both traditional coaxial based wiring systems utilising RS-422/485 telemetry protocols or connect them directly with CAT-5 structured cabling systems. The inbuilt active twisted pair transmitter ensures optimal signal quality over twisted pair cabling and is directly compatible with most popular UTP receivers and baluns.

Installation is a fast and uncomplicated process. Secure the mounting plate to any stable ceiling surface using the provided fixings. Connect the prepared cabling to the dome and attach the safety lanyard. Set the DIP switches in the base for the appropriate telemetry protocol, address and video transmission format. Snap the dome to the mounting plate and twist it to centre the field of view. That completes the installation! Seon™ 1100 domes are factory prefocused to give sharp images of objects 1.5m to 15m from the camera.

Features

- Attractive, low-profile, surface-mount design that is only 9.0cm in diameter and 8.5cm high
- Wide dynamic range camera with AGC, auto-tracing white balance (AWB) and automatic back-light compensation
- Robust variable speed pan-tilt mechanism with 0 to 180° pan and +10 to -90° tilt movement
- 0.5 to 60°/sec. manual pan & tilt control
- 200°/sec. (max.) preset acquisition
- 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
- Inbuilt active twisted pair transmitter for direct compatibility with CAT-5 structured cabling systems utilising UTP video transmission
- Low power consumption, high design MTBF
- Snap-fix mounting system and safety lanyard

SENSILE SYSTEMS

Seon™ 1100 — miniature pan-tilt dome camera

Technical details

Camera

Image system	1/4" CCD interline field accumulation
Horizontal resolution (min.)	460 TV-lines
S/N ratio	48dB (with AGC OFF)
Minimum illumination	1.0Lux
	(50% video output level, AGC ON, F1.4)
AGC	On (preset)
ELC	On (preset)
White balance	ATW (preset)
Synchronization	Internal synchronization
Video format	PAL or NTSC (colour)
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 (max.)	F2.8	F2.8

Pan-tilt mechanism

Pan range	±90°
Tilt range	+10 to -90°
Pan & tilt speed	200°/sec. max. (preset calls)
	0.5 ~ 60°/sec. (manual operation)
Presets	32 (non-volatile memory)
Preset accuracy	±0.1°

Electromechanical

I/O connector	RJ-45 (includes pigtail cable for local power & coaxial video cabling)
Power requirements	12 ~ 24VAC/DC
Power consumption	3.5W (max.)
Operating temperature	0 ~ +45°C (32 ~ 122°F)
Humidity	90% max. (operating)
	95% max. (storage)
Dimensions	90mm x 85mm (Ø x H)
Mounting	Surface mount, directly on ceiling
Weight	400g (0.9lbs) approx.
Design MTBF	>1,000,000 targeting operations

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

CE

Product order codes

SMD1100-P4-8	PAL camera RS-422/485, 8mm lens
SMD1100-P4-6	PAL camera RS-422/485, 6mm lens
SMD1100-N4-8	NTSC camera RS-422/485, 8mm lens
SMD1100-N4-6	NTSC camera RS-422/485, 6mm lens

Accessory order codes

SMD1100-WMA	Wall mount adapter
SMD1100-PMA	Pendant mount adapter (1 metre)
SMD1100-PME	Pendant extension (1.5 metre)

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Camera selection guidelines

Field of view: SMD1100-Xª4-8 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

Xª = N for NTSC or P for PAL camera module

Field of view: SMD1100-Xª4-6 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

Xª = N for NTSC or P for PAL camera module

Screen height of 1.6m tall object at various distances

Object distance (metres)	SMD1100-Xª4-8 Standard 8.0 mm lens	SMD1100-Xª4-6 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%

Xª = N for NTSC or P for PAL camera module

Snap-fix mounting plate

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