

Expanding vision
beyond
wired networks



SmartSight™ 1000 Wireless Encrypted Digital Video



● Product Overview

Designed for the CCTV market, the SmartSight™ 1000 is the industry's first secure wireless video system. The video signal is encrypted using the latest 128-bit encryption, maintaining the level of security that users of wired video monitoring systems expect.

Based on digital technology, the SmartSight™ 1000 offers a 20 to 1 improvement in interference rejection over traditional AM/FM analog systems. This feature enables it to operate reliably over the long term regardless of any new sources of interference.

The video transmitted by the SmartSight™ 1000 offers a clear crisp image not subject to fading and ghosting common to analog systems. The easy plug and play installation, compact design and tight integration with motorized domes and pan-tilt-zoom cameras make it the preferred solution for industry experts in the CCTV and video security markets.

● SmartSight™ 1000 offers

- MPEG4 based wireless video to ensure long-term reliable installation and high interference resistance
- Support for pan-tilt-zoom and video transmission all in one unit
- 4 mile line-of-sight operation using built in antennas (no unsightly parabolic antennas)
- Auto-detect frequency ensuring quick problem free plug and play setup
- Compact, weatherproof design with an all external connector concept for easy installation anywhere
- Transparent connectivity to all serial based motorized domes, PTZ cameras, and other serial devices such as access control panels
- Simple connectivity to PIR detectors, audible alarms, and other sensors/alarms using programmable digital inputs and relay outputs
- Optional bi-directional audio interface enabling support of gate access phone, public address systems and microphones
- Easy software upgrade path to monitor remotely over computer network or the Internet*

* Future release

Specifications

Microwave

Frequency.....	2.400-2.4835GHz
Power output.....	per FCC 47 CFR, part 15.247 (USA) & IC RSS 139 (Canada)
Number of selectable channels..	11 (3 non-interfering)
Encryption.....	128-bit RC4 algorithm
Range*	up to 4 miles with integrated antenna (clear line-of-sight)
.....	7 miles with optional 16 dBi patch antenna (at receiver only)
.....	15 miles with optional 16 dBi patch antenna (at both receiver and transmitter)

Video

Video compression.....	MPEG4
Max. receiver wiring distance....	750 feet (229m)-RG-59/U
Video input	1 input – 1 Vpp. into 75 Ohms Composite PAL/NTSC (transmitter only)
Video output	1 output - 1 Vpp. into 75 Ohms Composite PAL/NTSC (receiver only)

Alarm/PTZ/Audio

Alarm inputs	2 dry contact inputs
Alarm output	1 relay contact output (up to 48V at 100mA)
Bi-directional data	EIA/RS-232 or EIA/RS-422/485 transparent serial port – Autosense™ (supports any pan-tilt-zoom serial protocols)
Bi-directional audio.....	Input: 0dBm into 600 Ohms Output: -8dBm into 600 Ohms

Power

Input voltage	9-16VAC, 12-24VDC (24VAC optional)
Typical input power	6 watts

Physical

Enclosure	NEMA 4X / IP 65 powder coat painted die-cast aluminum with wall mounting brackets
Size	9 in. L x 3.9 in. W x 3.8 in H (230 mm L x 100 mm W x 96 mm H)
Environmental.....	-22°F to 122°F (-30°C to 50°C)
Humidity	95% at 122°F (50°C) non condensing

* At 77°F (25°C) ambient temperature

** Not compatible with S1000-24VAC

Ordering

SmartSight™ 1000

Part number	S1000
Includes	Transmitter and receiver with integrated antenna and wall mount brackets

Part number	S1000-24VAC
Includes	S1000 with 24VAC input

SmartSight™ 1000 options:

Part number	S1000-JB **
Includes	One (1) junction box with 24VAC power input with both wall mount and pole mount brackets

Part number	S1000-PM
Includes	One (1) set pole mount brackets with adjustable stainless steel straps

Part number	S1000-PA
Includes	One (1) 16dBi gain patch antenna with SMA-N cable 3 feet length (need 2 for 15 mile range)

Part number	S1000-PS
Includes	One (1) 110VAC power supply

Part number	S1000-CA-8P
Includes	cable assembly for audio and alarms (10 feet length)

Certification and Regulatory

USA: FCC 47 CFR, part 15.247/UL listed

Canada: IC RSS 139



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