

## S1000-CE™ Wireless Video System



**WIRELESS.  
ENCRYPTED.  
DIGITAL.**

*Designed for the European CCTV Market  
License-Free 2.4 GHz ISM Band*

### Product Overview

Designed for the European CCTV market, the S1000-CE is the industry's first secure wireless video systems. The video signal is encrypted using the latest 152-bit RC4 encryption protocol, maintaining the level of security that users of wired video monitoring systems expect.

The S1000-CE wireless video system consists of both transmitter and receiver units.

Based on digital technology, the S1000-CE offers more than 100-to-1 improvement in interference rejection over traditional AM/FM analog systems. This feature enables the S1000-CE to better cope with any new source of interference, allowing reliable operation over the long term.

Video transmitted by the S1000-CE offers a clear, crisp image not subject to fading and ghosting that are common to analog systems. The easy plug-and-play installation, compact design, and tight integration with motorized domes and pan-tilt-zoom (PTZ) cameras make it the preferred solution for industry experts in the CCTV and video security markets.

### Key Features

- MPEG-4-based wireless video to ensure long-term reliable installation and high interference resistance
- Support for PTZ and video transmission all in one unit
- Up to 4 km (2.4 miles) RF line-of-sight operation using built-in antennas (no unsightly parabolic antennas)
- Automatic frequency detection 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 bidirectional audio interface enabling support of gate access intercom, public address systems, and other line-level audio devices

# Specifications

## Network

Frequency	2.4000-2.4835 GHz
System gain	116 dB (with built-in antenna) 122 dB (with high-gain antenna)
Channel	13 (3 non-interfering)
Encryption	152-bit RC4
Range (RF line of sight)	Up to 4 km (2.4 miles) with built-in antenna Up to 8 km (5 miles) with high-gain, receiver-only antenna

## Video

Transmitter input	1 composite, 1 Vpp into 75 ohms (NTSC/PAL)
Receiver output	1 composite, 1 Vpp into 75 ohms (NTSC/PAL)
Receiver wiring	229m (750-foot)-RG-59/U max. cable run
Compression	MPEG-4-based (480 lines resolution)
Frame rate	1-30 fps programmable (60 fields per second)

## Alarm and Audio

Alarm	Input: 2 dry contact inputs (1 mA max.) Output: 1 relay contact output (up to 48V at 100 mA)
Bidirectional audio	Input: 0 dBm into 600 ohms Output: -8 dBm into 600 ohms

## Serial Port

Electrical levels	Autolevel sensing RS-232 or RS-422/485
Operating mode	Transparent (supports any asynchronous PTZ serial protocol)

## Power

Input voltage	24V AC or 12V DC (optional)
Consumption	11W (25 VA at 24V AC) 860 mA at 12V DC

## Physical

Enclosure	NEMA 4X / IP 66 powder coat painted die-cast aluminum with wall-mount brackets
Size	230L x 100W x 96H mm (9.0L x 3.9W x 3.8H in.)
Weight	1,65 kg (3.6 lbs)
Environmental	-30°C to 50°C (-22°F to 122°F)
Humidity	95% non condensing at 50°C (122°F)

## Management

Configuration	Local or remote: using SmartSight's SMI or Windows Hyperterminal software
Firmware upgrade	Local or remote: via the serial port

## Certification and Regulation

Europe	CE/R&TTE Directive 1999/5/EC
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## Warranty

2-year limited warranty, covering parts and labor

## Ordering

Part number	<b>S1000-24VAC-CE</b>
Description	24V AC input transmitter and receiver pair with built-in 8.5 dBi gain, 65° beamwidth antenna
Part number	<b>S1000-12VDC-CE</b>
Description	12V DC input transmitter and receiver with built-in 8.5 dBi gain, 65° beamwidth antenna

NOTE: All systems come with 9-pin cables for video, data, and power; wall-mount and pole-mount brackets.

## Optional antenna

Part number	<b>ANT-WP16-24/S</b>
Description	16 dBi gain, 27° beamwidth patch antenna with 1-meter (3-foot) SMA-N cable

## Optional accessories

Part number	<b>JBOX</b>
Description	Outdoor junction box with wall-mount and pole-mount brackets
Part number	<b>CAB8P</b>
Description	3-meter (10-foot), 8-pin cable assembly for audio and alarms