

Verint SmartSight S1100

MULTIBAND WIRELESS VIDEO SYSTEM



Designed for the CCTV market
License-Free 2.4/5.3-5.8 GHz Bands

PRODUCT OVERVIEW

Designed for the CCTV market, the Verint SmartSight® S1100 enables digital video transmission over multiple license-free wireless bands (2.4/5.3-5.8 GHz), with AES encryption of the video signal for enhanced security.

The S1100 wireless video system consists of a transmitter and a receiver. Based on digital technology, the S1100 significantly reduces the amount of interference usually encountered when using traditional AM/FM analog systems, for long-term reliability.

Video transmitted by the S1100 offers a clear, crisp image not subject to fading and ghosting, which are common to many analog systems. The easy plug-and-play installation, compact design, and tight integration with motorized domes and Pan-Tilt-Zoom (PTZ) cameras make the S1100 an excellent solution for the CCTV and video security markets.

KEY FEATURES

- ✓ End-to-end secure wireless link using AES encryption
- ✓ MPEG-4-based video encoding at 30 frames per second (fps) for high-quality video at low bandwidth
- ✓ Autosensing RS-232/422/485 serial port for transparent connectivity to motorized domes, PTZ cameras, and other asynchronous serial devices
- ✓ Simple connectivity to PIR detectors and other sensors/alarms
- ✓ Optional bidirectional audio interface
- ✓ Video loss alarm
- ✓ Compact, weatherproof design with an all-external connector for easy installation anywhere

WIRELESS.
DISTRIBUTED.
NETWORKED.



Verint SmartSight S1100

MULTIBAND WIRELESS VIDEO SYSTEM

NETWORK

RF interface	SmartSight SDCF™ for point-to-point applications
Frequency	2.40-2.4835 GHz (ISM) 5.250-5.350 GHz (U-NII-2) 5.725-5.825 GHz (U-NII-3 / ISM)
Modulation	OFDM
Output power	17 dBm
System gain	2.40-2.4835 GHz with 8.5 dBi gain antenna: 118 dB 2.40-2.4835 GHz with 16 dBi gain antenna: 133 dB 5.250-5.350 GHz with 13 dBi gain antenna: 132 dB 5.725-5.825 GHz with 13 dBi gain antenna: 129 dB 5.725-5.825 GHz with 18 dBi gain antenna: 139 dB
Range (RF line of sight)	2.40-2.4835 GHz (8.5 dBi): up to 1.9 miles (3.1 km) 2.40-2.4835 GHz (16 dBi): up to 8.7 miles (14 km) 5.250-5.350 GHz (13 dBi): up to 4.4 miles (7.1 km) 5.725-5.825 GHz (13 dBi): up to 2.85 miles (4.6 km) 5.725-5.825 GHz (18 dBi): up to 7.15 miles (11.5 km)
Data rate (max.burst rate)	6, 9, 12, 18, 24, and 36 Mbps
Channel	2.4 GHz: 11, 3 non-interfering 5.3 GHz: 4, non-interfering 5.8 GHz: 5, non-interfering
Encryption	128-bit AES with auto key rotation
Protocols	RTP/IP, UDP/IP, TCP/IP, or multicast IP DNS and DHCP client, HTTP 1.1 (Web server)
Security	SSL-based authentication

VIDEO

Input/Output	1 composite, 1 Vpp into 75 ohms (NTSC/PAL)
Compression	MPEG-4-based (480 lines resolution)
Frame rate	1-30 fps programmable (up to 60 fields per second)

ALARM AND AUDIO

Alarm	Input: 2 dry contacts (1 mA max.) Output: 1 relay contact (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 +/- 10% (optional 12V DC +/- 10%)
Consumption	12W (970 mA at 12V DC) 28 VA at 24V AC

PHYSICAL

Enclosure	NEMA 4X / IP 66 powder coat painted die-cast aluminum with wall-mount brackets
Size	9.0L x 3.9W x 3.8H in. (230L x 100W x 96H mm)
Weight	3.6 lbs (1.65 kg)
Environmental	-22°F to 122°F (-30°C to 50°C)

Humidity	100% at 122°F (50°C)
----------	----------------------

MANAGEMENT

Configuration *	Remote: Configuration assistant, SConfigurator, or Telnet Local: via the serial port using any ASCII terminal
Firmware upgrade	Local or remote: via the serial port

CERTIFICATION AND REGULATION

Canada	Industry Canada RSS-210, RSS-139, and ICES-003
USA	FCC CFR47 part 15 (15.247, subparts B and E)

WARRANTY

	2-year limited warranty, covering parts and labor
--	---

ORDERING

Part number	S1100-24VAC-24
Description	Multiband 24V AC wireless transmitter and receiver pair with 8.5 dBi gain, 2.40-2.4835 GHz antenna
Part number	S1100-12VDC-24
Description	Multiband 12V DC wireless transmitter and receiver pair with 8.5 dBi gain, 2.40-2.4835 GHz antenna
Part number	S1100-24VAC-5x
Description	Multiband 24V AC wireless transmitter and receiver pair with 13 dBi gain, 5.25-5.85 GHz antenna
Part number	S1100-12VDC-5x
Description	Multiband 12V DC wireless transmitter and receiver pair with 13 dBi gain, 5.25-5.85 GHz antenna

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

OPTIONAL ANTENNAS

Part number	ANT-WP16-24x/S
Description	16 dBi gain, 27° beamwidth, patch antenna with 3-foot (1-meter) SMA-N cable
Part number	ANT-WP18-5x/S
Description	18 dBi gain, 5.25-5.85 GHz band, 18° beamwidth, patch antenna with 3-foot (1-meter) SMA-N cable
Note:	Other antennas also available

OPTIONAL ACCESSORIES

Part number	JBOX
Description	Outdoor junction box with wall-mount and pole-mount brackets
Part number	PS12 <i>(Not for outdoor use)</i>
Description	110V AC to 12V DC at 1A power supply
Part number	PS2440 <i>(Not for outdoor use)</i>
Description	110V AC to 24V AC at 40 VA power supply
Part number	CAB8P
Description	10-foot (3-meter) cable assembly for audio and alarms

* Product capabilities are enabled through software.

By providing this document, Verint Systems is not making any representations regarding the correctness or completeness of its contents and reserves the right to alter this document at any time without notice.

Actionable Intelligence, BehaviorTrack, cctvware, Dellis, HealthCheck, Lanex, Loronix, Loronix Video Manager, MotionTrack, microDVR, nDVR, netDVR, and SmartSight are trademarks of Verint Systems Inc. All other registered trademarks, trademarks and any associated logos are the properties of their respective owners.

© 2004 Verint Systems Inc. All rights reserved.