



BritLink R1000 SG

Covert Video & Audio Surveillance with COFDM Digital Transmission

Features

- Wireless in 1.3 GHz Frequency Band
- COFDM Technology used in DVB-T
- Non-Line-of-Sight Fully Operational
- MPEG2 Video, up to 20 Mbit/S
- NICAM Stereo Audio and Data Transmission
- Sub Miniature Hidden Camera
- Antenna Diversity Receiver
- Superior Performance in Multipath Environment
- Resistance from Interference
- Narrow Bandwidth with Low Side Band
- AES Encryption for Additional Security
- Indoor and Outdoor use

Description

The R1000 SG system is the very latest high quality covert surveillance system from Britannia 2000 Ltd. A highly discrete and virtually invisible pinhole camera is built-in the sun glasses. The picture from the camera and microphone audio is then transmitted by a non line-of-sight COFDM microwave link to a receiver for monitoring or recording. The COFDM transmission ensures the highest quality reception where analogue systems fail. It is excellent in and around buildings.

Digital vs. Analogue

	R1000 Digital	Analogue
Quality	High quality	Interference artefacts
Non-line-of-sight performance:	Excellent	Poor
Mobility Performance:	Excellent	Poor
Noise Immunity:	Excellent	Poor
Data Communication:	Yes	No

Specifications

Video

Compression Standard:	MPEG 2 with non DVB modes
Chrominance Profile:	4:2:0
Format:	PAL or NTSC
Specification:	Rec. ITU_R BT. 470-4
Line Standard:	625 (PAL) or 525 (NTSC)
Horizontal Resolution:	704 pixel
Frame Rates:	25 (PAL) or 29.97 (NTSC)
Video Bit Rates:	1 to 20 Mbit/s
End-To-End Delay:	40ms
Vertical Resolution:	576 at 625 lines or 480 at 525 lines (depending on line standard)

Audio

Bitrate:	728 kbit/s
Compression Standard:	NICAM
Sampling Frequency:	32 kHz
Frequency Response:	20Hz-12KHz \pm 0.25dB
Signal Noise Ratio:	>60dB rms
Cross Talk:	>55dB
THD:	<0.1%

Data

Format:	RS232
Max Bitrate:	38400 baud

General

Channel Steps:	1MHz
Modulation:	COFDM 2k carriers using QPSK or 16QAM
Bandwidth:	6,7 or 8MHz programmable
FEC:	$\frac{1}{2}$, $\frac{2}{3}$, $\frac{3}{4}$
Guard Interval:	$\frac{1}{32}$, $\frac{1}{16}$, $\frac{1}{8}$, $\frac{1}{4}$

Antenna Diversity Receiver

Sensitivity:	-94dbm
Overload:	-10dbm
Video Output:	1 v-p-p \pm 10%, 75 Ω
Audio Output:	Analogue stereo unbalanced 725mV \pm 10% low impedance
Data Output:	RS232 9600 baud
Power:	ON/OFF switch with LED 8~14VDC, 18w
Connectors:	Video: BNC Audio: LEMO 4 pin Data: LEMO 6 pin Power: LEMO 2 pin
Dimensions:	222mm X 169mm X 82mm
Weight:	2.2kg
Temperature:	-10°C ~ +40°C

Transmitter (R1000-1.3 TX24)

Video Input:	1v-p-p \pm 10%, 75 Ω
Audio Input:	Analogue stereo unbalanced 725mV \pm 10% high impedance. Clip level 12dbm
Data Output:	RS232 9600 baud
RF Output:	250mW as standard (other options available)
Spurious Emission:	>55db
Stability:	>25ppm
Power:	ON/OFF switch with LED 8~14vdc, 12w, active 2w sleep
Connectors:	Video: BNC Audio: LEMO 4 pin Data: LEMO 6 pin Power: LEMO 2 pin
Dimensions:	216mm X 106mm X32mm
Weight:	600g
Temperature:	-10°C ~ +40°C