



SYSTEM CAPABLE OF CODING AND DECODING FULL HD VIDEO SIGNAL UP TO 1080P / 60 HD-SDI IN WIRELESS MODE OR UNDER IP NETWORKS, WITH LOW DATA SPEED AND LOW DELAY (REAL TIME).

CAPACITY TO PERFORM STREAMING TOWARDS PC, TABLET OR SMARTPHONE, WITH UNLIMITED NUMBER OF USERS VIA RTSP (MULTICAST IP).

IDEAL EQUIPMENT OF TRANSMISSION OF VIDEO FULL DUPLEX HD VIA IP NETWORKS OR WIRELESS OF REDUCED SIZE, WEIGHT AND CONSUMPTION. EXTREMELY FLEXIBLE AND OPERATIONAL.

APPLICATIONS:

- Wireless cameras
- Transmission from UAV
- Streaming Full HD
- CCTV Full HD / IP camera
- Medical images
- Low cost HD encoder
- Digital signage

CHARACTERISTICS:

- Certified H.264 / MPEG-4 AVC encoding and decoding
- Multiple video formats: 1080P, 1080I, 720P, 576I & 480I
- Low delay (40 ms)
- Streaming
- Coverage: Wireless up to 900m, unlimited LAN / IP
- Technology "Diversity" MIMO 3x3 in 5Ghz
- Secure transmission 128Bit AES
- Multicast up to four receivers
- Full Duplex Intercom
- Bidirectional RS 422 data channel (camera telemetry or PTZ)
- Two audio channels 48Khz 16Bit linear PCM, G.711
- Embedded or analog audio
- Minimalist design: Low consumption, Very light, Compact.
- Without fans

RK-1000

HD VIDEO LINK

SPECIFICATIONS

Video

	High performance in SD / HD / 3G-SDI transmitters via Wi-Fi or Ethernet LAN (IP)
H.264 encoder / decoder engine:	Baseline profile level 4.2 with de-interlacing
Full HD coding:	Supports both interlaced and progressive input up to 1920x1080p60
Streaming server function:	in both the RK-1000T and the RK-1000R
Low end-to-end latency	70-80 ms in 1080i59.94 HD
Embedded stereo:	video and audio
Supports:	SDI / HD-SDI / 3G-SDI for PAL, NTSC and full HD video
Supports DTV standards:	-SMPTE 244, BT601 (NTSC): 525i59.94 -IEC61179-5, BT601 (PAL): 625i50 -SMPTE 296M: 720p23.98, 720p24, 720p25, 720p30, 720p50, 720p59.94, 720p60 -SMPTE 274M: 1080i50, 1080i59.94, 1080i60, 1080PsF23.98, 1080PsF24, 1080PsF25, 1080PsF29.97, 1080PsF30, 1080p23.98, 1080p24, 1080p25, 1080p29.97, 1080p30, 1080p50, 1080p59.94, 1080p60
Wide range of coding and video transmission ratios	from 100 kbps to 30 Mbps
	Multiple variable GOP size, random auto-refresh, adjacent intra-refresh or forced I-frame

Net

Wireless output for audio / video:	Supports IEEE 802.11n / 5 GHz
Coverage:	up to 900 m in line of sight with 12 Mbps
Ethernet port for audio / video transmission:	Ethernet LAN (cable 10/100 BASE-TX caT.5E UTP)
Connection:	1 Tx to 1 Rx or 1 Tx to 2 or 4 Rx
	One-to-one or one-to-many connection in Ethernet LAN mode
	Multicasting and simulcast modes to the RK-1000R and a PC simultaneously
Supports several standard protocols:	RTP / UDP / IP, Multicast, HTTP, RTSP
	RTSP streaming server or MPEG-TS streaming device over WiFi or LAN port on the RK-1000T
	Streaming server RTSP / MPEG2-TS over LAN port on the RK-1000R
	RS422 serial port for bidirectional communication of camera control signals (CCU)

Audio

	Embedded SD / HD / 3G-SDI audio
	Mini stereo jack in and out for analog stereo audio
Analog stereo audio:	48 kHz sampling with 16 bit ADC
	Bidirectional audio intercom channel with 8 kHz sampling and 16 bit ADC, so no additional intercom equipment is necessary

User Interface

	Internet Explorer / Chrome browser to change system settings or firmware update
	USB to reset to default factory values, IP configuration or firmware update without using a web browser (version_300.00 or newer)
Functioning conditions	From 0 to +40 ° C of ambient temperature for operation
	12V DC Input (6.6V ~ 16V)
Reliability	Reliable embedded system
	System Recovery using dual watch-dog functions

Specifications subject changes without notice.