VISLINK

L2174

Multi-Format Reciever & Decoder

The Vislink Receiver is the highest-performing, feature-rich SD/HD diversity receiver available for Central Receive Site (ENG/OB) and Wireless Camera System (WCS) applications. Utilizing Vislink's core technologies, the LYNX receiver combines leading-edge MaxRC digital signal processing, with highly configurable FPGA circuitry, providing an abundance of user selectable features, all in one streamlined half width 1 RU rack-mount chassis.

It accepts up to four RF signal inputs, with superior sensitivity and adjacent channel performance, producing reliable and comprehensive coverage for any ENG/OB or wireless camera venue. An optional packet switching feature permits additional receivers to be "joined" together, thereby creating a diversity "cellular" network. This revolutionary concept for ENG and OB receive operations reduces the complexities and operating costs of today's economically challenged businesses.

A powerful, yet simple to operate, web-based graphical user interface (GUI) provides complete remote control and monitoring for the receiver by means of an integrated Ethernet/SNMP (RJ45) interface, further reducing capital equipment expenditures by eliminating the need for expensive third party remote control systems.

Vislink's proprietary LMS-T and Deep-Interleaving demodulation are available options that will further enhance the already stellar operating performance of the receiver. Additional, licensable options include MPEG-2 HD (high definition) 4:2:0/4:2:2 video, MPEG-4 (8/10-bit 4:2:0/4:2:2 video), and BISS-1 & E/AES descrambling.

Key Features

- Direct conversion RF architecture for exceptional adjacent channel performance and excellent sensitivity
- 4 input RF diversity with maximum ratio combining (MaxRC)
- DVB-T: QPSK, 16QAM & 64QAM; 6, 7, & 8MHz
- LMS-T: QPSK & 16QAM;10 & 20MHz
- variable bandwidth LMS-T; 3, 4, 5, 6, 7, 8, 10, 12, 14, 16, 20 & 24MHz
- Diversity chaining ASI input for packet diversity
- Deep interleaving for DVB-T & LMS-T to give exceptional dropout tolerance (*)
- MPEG-2 4:2:0 & 4:2:2 SD & HD generic and ultra low delay decoding
- MPEG-4 AVC (H.264) Main Profile, High-profile and High 422 profile, SD & HD decoding including 10-bit (+)
- ASI over IP input and output
- ASI input and output
- Web browser and SNMP control
- Dual SDI / HD-SDI / CVBS outputs with independently selectable status overlay
- Field upgradeable

(*) with LINK transmitters
(+) contact VISLINK for availability

SPECIFICATIONS

VISLINK

RF PARAMETERS

Frequency bands
- 70 - 860 MHz

Frequency selection
- Up to 16 pre-set channels, or tuning in 1 MHz steps via front panel control

Demodulation
- DVB -T 2k
- LMS -T

Demodulation Modes
- QPSK, 16QAM, 64QAM
- FEC: 1/2, 2/3, 3/4, 5/6, 7/8■
- Guard interval: 1/32, 1/16, 1/8, 1/4

LMS-T only available for QPSK and 16 QAM

Bandwidth
- DVB -T
  - 6, 7, 8MHz
- LMS -T
  - 2 , 3,4, 5, 6 ,7, 8,10,12,14.16,20 & 24 Mhz

Noise figure and receiver threshold
- Noise figure: 3dB typical, 4dB max.
- Receiver threshold: -92dBm to BER 10-5 (nom. QPSK)

VIDEO AND AUDIO PARAMETERS

Decoding
- 4.2.0 and 4.2.2 broadcast quality video
- MPEG2
- H.264/MPEG4 and MPEG2, with automatic selection.

Video outputs
- SDI HD SMPTE-292M (299M)
- SDI SD SMPTE-259M (272M)
- Analogue Composite (CVBS),
- HD down-converted to SD
- CVBS monitor

ASI outputs
- 2 x DVB ASI, 188 /204 outputs.

Video Formats
- 1080i: 1920 x 1080, 25 and 29.5Hz
- 720p: 1280 x 720, 50 and 59Hz
- 480i (NTSC): 720 x 480
- 576i (PAL): 720 x 576

Latency
- Automatic selection down to sub 1 frame (20ms), transmitter
- Encoding profile dependant

Decryption
- BISS modes 1 and E (factory option)
- AES

Framelock
- Genlock input, CVBS black/ burst or tri-level sync

Audio outputs
- ■
- Digital: 2 stereo SDI
- embedded or AES/EBU
- ■
- Analogue: 4 x mono / 2 x
- stereo

Other Outputs
- Camera Control interface and
- alarm output on 6 pin Lemo
- Remote Control and MEPG
- data channel on 6-pin Lemo
- 10/100/1000 Ethernet connections for Video over IP
- connections
- 10/100 Ethernet connection for IP- based unit control.
- USB connector for code updates and profile transfers

Inputs
- Up to 4x UHF input RF with Max Ratio Combining
- ASI Input

FLEXIBILITY AND POWER SUPPLY

Monitoring
- Comprehensive control and monitoring menu via front panel control
- Demodulator parameter
- RF Received signal level (dBm and bar graph)
- C/N, MER, BER (dB and bar graph)
- Summary front panel alarm/ comprehensive internal lock alarms

Remote control
- Comprehensive remote control and monitoring via Ethernet port / web browser interface.

Software upgrade
- USB upgrade port

Power Supply
- 100 - 240Vac; 75W (approximate, depending on configuration)

PHYSICAL & ENVIROMENT

Size and weight
- 1U Height Half Rack width
- 210mm x 350mm Deep
- 1.2kg

Environmental
- Safe use: 0° to +50°C
- Humidity: 95% long term

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