VidQlink Ranger



VidOlink Ranger Description:

The VidOlink Ranger is a highly portable broadcast grade MPEG 4 COFDM HD wireless camera transmission link capable of providing high quality video at distances over a mile line of sight*.

Demanding videographers choose the VidOlink Ranger when they require the highest quality video without breakup or pixilation. The VidOlink Ranger comes in a portable package and is designed to give the operator the ability to set up quickly and cover wide areas with long range wireless transmission. The kit includes a transmitter, receiver, antennas and all the accessories chosen specifically to optimize the total system performance.

At the heart of the VidOlink Ranger system is the VidOlink Ranger transmitter whose size and performance make it ideal for sports, live news gathering, reality-based programs, ENG-EFP/OB, point-of-view and any type of live event coverage. The VidOlink Ranger transmitter now comes in three camera mounting options: Anton Bauer, V-lock and Hot-Shoe. The VidOlink Ranger has a friendly local graphical user interface.

Twelve easily selected presets make it simple to change channels and other operating parameters on the fly. The Windows-based graphical user interface simplifies preset programming.

The VidOlink Ranger receiver is a dual diversity COFDM receiver that uses maximal-ratio combining technology to enable the VidOlink system to support Line-of-Sight (LOS) as well Non-Line-of-Sight (NLOS) applications. The VidOlink Ranger receiver features MPEG-4/ MPEG-2 auto-detect video and embedded audio decoding. This technology provides a highly reliable decode solution in demanding portable applications.



VidOlink Ranger Long Range COFDM Wireless Video Link

Key Features:

- Up to one mile line-of-sight range
- HD and SD encoding / decoding
- Up to 200mW RF output power
- Anton Bauer, V-Lock or Hot Shoe mounting
- Broadcast quality video
- MPEG-4 H.264 Part 10 encoding
- MPEG 2/4 auto detect decoding on receivers
- Embedded Audio
- ASI Output
- Very low power consumption
- Video, audio and telemetry data
- User-friendly controls
- Wide selection of antennas
- Optional Range Booster Amplifier
- Encryption BCRYPT 1 & 2 AES 128 or 256

Developed for the new generation of HD capable compact cameras, the VidOlink Ranger system is available in the 2, 5.8 and 7GHz bands, features H.264 SD and HD encoding and operates in the standard 2k DVB-T COFDM mode.



*Many factors affect the operational distance including but not limited to interference and physical environmental obstructions. *Further range is also possible with a more directional antenna, change in frequency and power.

Specifications

Standby Mode

Standby Normal

Modulation

Modulation FormatsCCCarriers2kConstellationQkCode Rate1/Guard Interval1/Bandwidth6kReceiver Diversity Channels2k

MPEG Encoder/Decoder

Method Coding Video Input

GOP Settings

Formats HD (4:2:0)

SD(4:2:0)

Audio

Audio Coding Audio Sample Rate Transmitter Channels

Transmitter Audio InputEndReceiver Audio Channels1Receiver Audio Output1Receiver Embedded Channels4Receiver Embedded output5

Power Requirements

Input Range Power Consumption No RF output Instant on frequency

COFDM (DVB-T) 2k QPSK, 16 QAM 1/2, 2/3, 3/4, 5/6, 7/8 1/32, 1/16, 1/8, 1/4 6 MHz, 7 MHz, 8 MHz 2 input max ratio comb.

MPEG-4 Part 10/H.264 AVC Composite, HD/SD SDI NTSC: 720 x 480 (4:2:0) PAL: 720 x 576 (4:2:0)

Low latency - Intra Refresh P Simple - IP15 Advanced - IPB Long GoP - IPB

720p: 23.98/24/50/59.94/60 1080i: 50/59.94 1080p: 23.98/24/25/30/29.97

1080psf: 23.98/24/25/2997 NTSC: 720 x 480 PAL: 720 x 576

MPEG 1 (Layer I or II) 48 kHz 2 Stereo, 4 Mono Standard

SDI

DC: +9 to +28

See tables

Embedded 1 Stereo or 2 Mono Standard 1VP-p single end into 10k ohm 4 **System** Video Preset

ASI Output

Latency

Test Gen (Dynamic)

Encryption (Optional)

User Data

Remote Control ASI In ASI Out Local Control Preset through GUI

Environmental

Temperature Range Storage

Physical Characteristics

Size of Receiver Volume of Receiver Weight of Receiver See outlines for TX

Optional TX Range Booster

Power Output Frequency Power Input Transmit Operating Voltage Voltage Input

Temperature Range Size Power Consumption Remote Standby/Test Generator Selectable Audio output rate follows modulation or fixed selected output (PCR time stamp) Under 4 frames for I and p formats Under 5 frames for psf formats SMPTE-CB(NTSC)/100%, CB (PAL) 1 KHz Tone/Pulse BCRYPT1 and 2, 128 and 256bit

RS232 300-155k Baud RS232 5 pin Lemo 5 pin Lemo Push Button 16 user configurable presets

-10° to +50°C ambient -40° to +80°C

1.5"H x 2.7"W x 5"L 28 cubic inches 1.4 lbs.

1 Watt 1980 – 2700 MHz 50 – 250mW Auto detect w/ input power +9 to 30VDC 6 pin Lemo to P or D tap RF Input center conductor (Bias-T) -10° to +50°C Ambient 4.5" L x 2.5" D Transmit 15 Watts Standby < 1 Watt



ORDERING INFORMATION

Transmitters

VLK-RA-2.3G-T-200
VLK-RA-2.4G-T-25
VLK-RA-2.4G-T-200
VLK-RA-2.6G-T-200
VLK-RA-5.6G-T-100
VLK-RA-5.8G-T-100
VLK-RA-5.8G-T-25
VLK-RA-6.4G-T-100
VLK-RA-6.8G-T-100
VLK-RA-7.0G-T-100

VidOlink Ranger Long Range COFDM HD Wireless Video Link Transmitter at 5.600 to 6.000 GHz with 100mW/20dBm RF power VidOlink Ranger Long Range COFDM HD Wireless Video Link Transmitter at 5.725 to 5.850 GHz with 100mW/20dBm RF power VidOlink Ranger Long Range COFDM HD Wireless Video Link Transmitter at 5.725 to 5.850 GHz with 25mW/14dBm RF power VidOlink Ranger Long Range COFDM HD Wireless Video Link Transmitter at 6.425 to 6.525 GHz with 100mW/20dBm RF power VidOlink Ranger Long Range COFDM HD Wireless Video Link Transmitter at 6.425 to 7.125 GHz with 100mW/20dBm RF power VidOlink Ranger Long Range COFDM HD Wireless Video Link Transmitter at 6.800 to 7.150 GHz with 100mW/20dBm RF power

VidOlink Ranger Long Range COFDM HD Wireless Video Link Transmitter at 1.980 to 2.500 GHz with 200mW/23dBm RF power VidOlink Ranger Long Range COFDM HD Wireless Video Link Transmitter at 2.400 to 2.483 GHz with 25mW/14dBm RF power VidOlink Ranger Long Range COFDM HD Wireless Video Link Transmitter at 2.400 to 2.483 GHz with 200mW/23dBm RF power VidOlink Ranger Long Range COFDM HD Wireless Video Link Transmitter at 2.400 to 2.700 GHz with 200mW/23dBm RF power

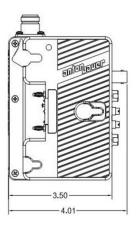
Receivers

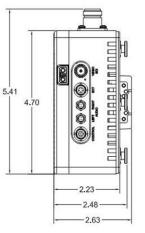
VLK-RA-2.3G-R	VidOlink Ranger Long Range COFDM HD Wireless Video Link Receiver at 1.980 to 2.500 GHz
VLK-RA-2.4G-R	VidOlink Ranger Long Range COFDM HD Wireless Video Link Receiver at 2.400 to 2.483 GHz
VLK-RA-2.6G-R	VidOlink Ranger Long Range COFDM HD Wireless Video Link Receiver at 2.400 to 2.700 GHz
VLK-RA-5.6G-R	VidOlink Ranger Long Range COFDM HD Wireless Video Link Receiver at 5.600 to 6.000 GHz
VLK-RA-5.8G-R	VidOlink Ranger Long Range COFDM HD Wireless Video Link Receiver at 5.725 to 5.850 GHz
VLK-RA-6.4G-R	VidOlink Ranger Long Range COFDM HD Wireless Video Link Receiver at 6.425 to 6.525 GHz
VLK-RA-6.8G-R	VidOlink Ranger Long Range COFDM HD Wireless Video Link Receiver at 6.425 to 7.125 GHz
VLK-RA-7.0G-R	VidOlink Ranger Long Range COFDM HD Wireless Video Link Receiver at 6.800 to 7.150 GHz

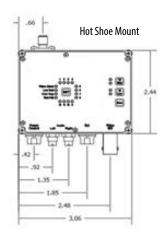
Mounts

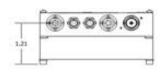
VLK-RA-AB	Anton Bauer Mount
VLK-RA-VL	V-Lock Mount
VLK-RA-HS	Hot Shoe Mount

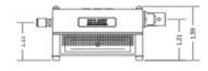
Anton Bauer Mount

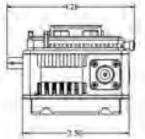




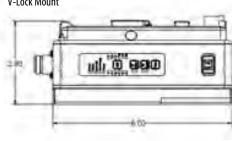








V-Lock Mount





Toll Free: 1.855.VidOvation Tel: 949.777.5435 www.vidovation.com E: sales@vidovation.com