



VISLINK

At the heart of the action.

L3025 Down-Converter Datasheet

L3025 Down-Converter



The L3025 series Down-Converters are performance-optimized for the Vislink Quantum Receiver and ULRX-LD wireless camera demodulators and decoders. The Down-Converters are also suitable for third-party systems.

The L3025 series utilizes a very-high dynamic range for weak signal reception with co-located high-level signals. The front-end internal filter protects against damage and reduces overloading from other sources of UHF transmission, high-power transmitters and static discharge.

Each Down-Converter is small, lightweight, protected against water and dust ingress, and designed for outdoor installations, meeting the IP65 standard. An additional pole or rail mount bracket allows for ease and simple mounting. The L3025 takes power from the UHF output connector (usually from the Quantum Receiver or ULRX-LD wireless camera demodulators and decoders). A tricolor LED indicates unit status.

The unit has switchable low and high gain modes:

- In low gain mode, the Down-Converter provides sufficient gain to compensate for up to 20-30dB of cable loss between the Down-Converter and the receiver, giving up to approximately 100m (using good quality cable - such as Belden 1694A).
- In high gain mode, the distance can extend to approximately 150m.

Key Features

- Small, lightweight and fully protected against water and dust ingress (IP65)
- Antennas (and Down-Converters) can be located up to 150m from demodulators and decoders
- High dynamic range for weak signal reception with co-located high level signals
- Tricolor LED indicates unit status and gain mode
- Additional L9972 Mounting Brackets enable simple rail and pole mounting



L9972 Down-Converter Bracket



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Specifications

General

- Antenna Input
 - 50 Ω N-Type (F)
- UHF Output:
 - 75 Ω BNC (F)
- Noise Figure:
 - <3dB
- Phase Noise:
 - -90dBc/Hz @ 10kHz offset
- Internal Band pass filter on RF
- Spurious:
 - <-60 dBm
- OIP3:
 - >26 dBm
- OP1dB:
 - >14 dBm
- Image/Half-IF Rejection:
 - >60dBc

Status

- Tricolor LED:
 - GREEN – Low Gain Setting
 - ORANGE – High Gain Setting
 - RED – Unit Error

Compliance

- CE:
 - (EN302064 EN301489 & ES202239)
- FCC:
 - Static Discharge (IEC61000-4-2)

Environmental

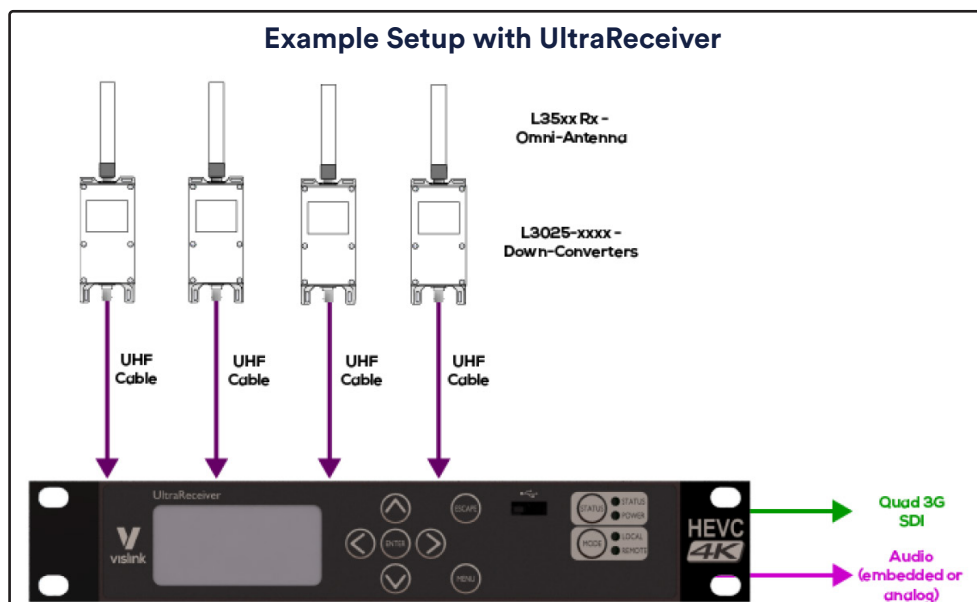
- Temperature:
 - -10° C to +55° C IP65 (14° F to 122° F)

Power

- 12.5 to 24V DC
 - via UHF output connector

Model	Frequency	Gain Mode dB (typ.)		Physical (Excluding Bracket)	
		Normal dB	High dB	Dimensions (mm)	Weight (g)
L3025-1415	1.435-1.525 GHz	28	43	153 (H) x 65 (W) x 25 (D) (6" x 2.6" x 1")	250 g (0.56 lbs.)
L3025-1718	1.785-1.805 GHz	30	45		
L3025-1927E	1.9-2.7 GHz	26	41		
L3025-2732	2.7-3.2 GHz	26	41		
L3025-3236	3.2-3.6 GHz	30	45		
L3025-3239E	3.2-3.9 GHz	30	41		
L3025-4450	4.4-5.0 GHz	24	39		
L3025-4854E	4.8-5.4 GHz	30	45		
L3025-5459	5.4-5.925 GHz	26	41	168 (H) x 65 (W) x 25 (D) (6.1" x 2.6" x 1")	300 g (0.66 lbs.)
L3025-6368	6.3-6.8 GHz	38	53		
L3025-6469	6.425-6.960 GHz	38	53		
L3025-6471	6.424-7.125 GHz	38	53		
L3025-6875	6.8-7.5 GHz	38	53		
L3025-7074*	7.0-7.4 GHz	22	25		
L3025-7277	7.25-7.75 GHz	38	53		

NOTE: Other bands are available. Contact us with your requirements.



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