RE-DTX-K2D

Digital transmitter and receiver

Product description

RE-DTX-K2D transmitters and receivers are used to radio the audio / video signal of an analog wired camera and adopt digital technology that allows total immunity to interference. The incoming analog video signal is digitally encoded in the transmitter and sent via radio with FHSS modulation and encrypted coding to prevent unauthorized reception. In the receiver, the signal is converted back to analog in order to connect TVs, monitors or video recorders.

Composition of the product

The product includes:

- Transmitter to be connected to the analog camera and receiver to be connected to an AHD monitor or DVR. ATTENTION: To see the output image from the receiver you need a DVR or monitor capable of supporting AHD 1080P.
- Adapter cables with RCA male video connector (yellow) for connecting the RX to the monitor or the TX to the camera.
- Omnidirectional antennas.

Video signal supported

RE-DTX-K2D transmitters support AHD, CVI or TVI analog video signal in 720P or 1080P resolution.

Installation and wiring

- On the back of the modules there are two cables for connecting a 12-42VDC power input to be connected to a power supply or battery.
- In the TX the end of the video cable will be connected to the camera. In the RX the end of the video cable will be connected to the AHD monitor or DVR.

The connectors are of the male RCA type (1xVideo). If the device to be connected has a BNC connector, which is very common in CCTV, a RE-BNCRCA1 adapter is required.

- Both the transmitter and receiver have two DC power plugs. Connect the DC power to the BLACK plug. With the red plug you can possibly supply power to the camera or DVR.
- The antennas screw onto the SMA connectors. The antenna is omnidirectional and does not need to be oriented.
- Power the transmitter and receiver using 12VDC 1A power supplies (not included) or by connecting them to the vehicle battery, when installing on vehicles
- The containers are IP67 watertight and shockproof.

First ignition

Once the power supply is connected, the red POWER LED lights up on both devices. Immediately afterwards, the green PAIRING LED lights up when the two devices are paired and ready for image transmission. Transmitter and receiver are supplied already coupled from the factory so no operation is required for them to connect together. If the LINK LEDs do not light up, it means that the two modules are unable to communicate with each other, presumably because they are placed too far away or due to the presence of too many obstacles between the antennas.

Pairing Button (PAIR)

TX and RX communicate with each other in a coded way so they must be coupled together to function correctly. However, the PAIR button present on TX and RX as a rule must not be used as the two devices are already delivered coupled to each other at the factory.

If for maintenance reasons it should be necessary to re-couple TX and RX, proceed as follows

- Power TX and RX by placing them at a short distance.
- Press the PAIR button either on the transmitter or on the receiver and hold it down until the green PAIRING LED starts flashing quickly. Then release the PAIR button.
- Carry out the same operation on the other module to be coupled
- Wait for the TX-RX pairing to complete without turning off the equipment.
- At the end of the procedure, the two green LINK LEDs will turn on steadily
- Each transmitter can be paired with only one receiver.

The range of transmission

RE-DTX-K2D allow a range in free air of about 300 m. The flow rate value is given in free air, as the presence of obstacles, such as walls or other, drastically reduces the flow rate, but in a very variable way.

Tips

- Place the transmitter and receiver in a position as detected as possible.
- Position the camera so that on the imaginary line joining the 2 antennas there are as few obstacles as possible.

In particular, try to avoid the presence of obstacles very close to the transmitter.

- Avoid the interposition of metal obstacles (eg metal doors etc.) as they are highly shielding.

Main features

Supply	12..42VDC
Consumption max.	2.4W
Video input output	AHD CVI TVI 720P or 1080P 25 f / s
Audio input output	-
Connectors	1xRCA male
Antenna	6dB omnidirectional
Antenna connection	SMA type
Frequency	2.400 GHz band
Dimensions	100x94x25 mm. IP67
Temperature	-10 ° ... + 50 ° C
Weight	250 gr. per module

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