RF200HD

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User Manual

Manufactured in the UK

Programming Mode

The RF200HD has 2 RF channels supporting AHD 1080P and CVBS camera's. Either channel can be programmed for 1080P HD or CVBS modes.

Programming of the RF200HD is done using a single button. To enter programming mode hold down the programming button for 3 seconds, once in programming mode the currently selected channel will flash slowly, briefly pressing the programming button will change the channel / mode. Once the correct channel / mode has been selected, hold down the programming button for 3 seconds to save the new option.

The available modes are:

Channel	Mode
1	AHD 1080P (5840MHz)
2	AHD 1080P (5760MHz)
3	CVBS (5840MHz)
4	CVBS /(5760MHz)

Installation

The RF200HD operates in the 5.8GHz ISM band which is a shared band also used by other devices like Access points, Video Senders, Sound Bars etc.

Careful planning should be carried out when installing the RF200HD to avoid receiving interference from other devices. The RF200HD has a built in signal strength meter (RSSI) which is an aid during the installation but it is also recommended to check the picture for possible interference.

The RF200HD requires line of sight (LOS) between the transmitter and receiver.

General Description

The RF200HD is a high quality 2 channel 5.8GHz wireless video link for AHD 1080P and CVBS camera's. Designed for the CCTV industry the RF200HD is cased in IP65 rated enclosures for outdoor use, has a built in signal strength meter to aid with the installation and internal directional patch antennas to help reduce interference from neighbouring devices.

Inside the RF200HD is a 4 LED display to show the current programmed channel, signal strength meter (RSSI) and a simple programming system to change the required channel / mode.

Two plastic brackets are supplied with the RF200HD for wall mounting of the transmitter and receiver. An additional pole mount bracket is also available as an optional extra.

Connections to the RF200HD only requires 2 cables, 12V power supply and a video signal making these very easy to install.

The transmission range of the RF200HD is up to 200 meters for AHD 1080P and 1000 meters for CVBS camera systems.

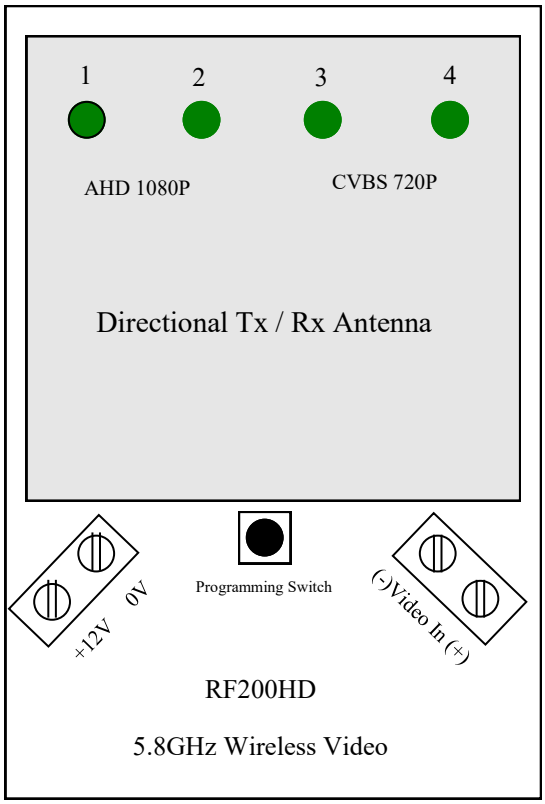
Main Features

- 5.8GHz
- IP65 rated
- 2 RF channels
- 10 —14V Volt operation
- High quality AHD 1080P (2MP) Video
- 200 meters HD range (Line of site)
- 1000 meters CVBS range (Line of Site)
- 4 LED signal strength meter (RSSI)
- Directional antennas (Reduced interference)

Specifications

Electrical	
Operating voltage	10—14V DC (Max)
Operating current (Transmitter)	180mA (Max)
Operating current (Receiver)	140mA (Max)
Transmitter	
Operating frequencies	5740 & 5860MHz
Transmit power	<= 14dBm
Video Input	1Vpp
Video Modulation	FM
RF Bandwidth (AHD 1080P)	55MHz
RF Bandwidth (CVBS)	28MHz
Receiver	
Operating frequencies	5740 & 5860MHz
RF Input Level	-85 ~ -10dBm
Video Output	0.6 ~ 0.9Vpp
Mechanical	
Case size without aerial and grommet	115 x 65 x 40mm
Case rating	IP65
Environmental	
Temperature range	-20 to +55 Degrees
Relative humidity	95% non - condensing
Compliance	
Radio	EN300-440
EMC	EN301-489

Tx / Rx Hardware Layout



Receive Signal Strength

The RF200HD has an built in RSSI signal meter. To activate this, briefly press the programming button, this will switch the display from channel mode to RSSI signal level mode for 30 seconds. Pressing the RSSI button during the 30 seconds will switch back to channel mode. If the programming button is not pressed for 30 seconds while displaying RSSI, the RF200HD will automatically switch back to channel mode after 30 seconds.

While displaying the RSSI the LED's will illuminate from 1 to 4 depending on signal strength where all 4 LED's are on indicates the strongest signal. If there is either no signal or a weak signal LED 1 flashes, this is to indicate the RF200HD is in RSSI mode.

Note: While displaying the RSSI in AHD 1080P mode, the picture will change to black and white, this is normal as the receiver switches into a narrow band to sample the RSSI signal. Once the RSSI mode switches back to channel mode the picture returns back to colour.