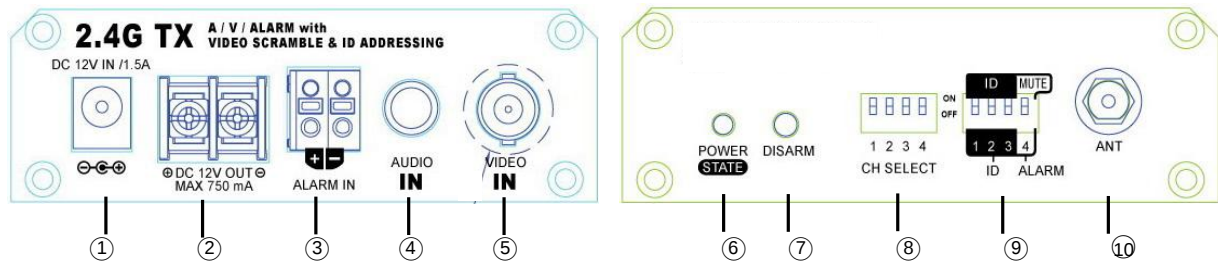


2.4GHz WIRELESS A/V/ALARM TRANSMITTER USER MANUAL

1. Panel View



1. DC+12V IN: Power input DC+12V/1.5A.
2. DC+12V OUT: DC+12V/750mA for box camera only, and with the over current protector.
3. ALARM IN: Once triggered, the built-in buzzer rings on for a 20-sec time. This port could be connected to alarm sensor, e.g.: PIR Detector, Magnetic Reed Switch Detector.
4. AUDIO IN: RCA female for input audio signal.
5. VIDEO IN: BNC female for input video signal.
6. POWER/State LED: Indicated to power on and ARM status.

Indications	Power/State LED
Power On	On
ARM	High speed Flashing

7. DISARM: DISARM at **TX** transmitter's side only.
8. CH SELECT (1 2 3 4): 2.4GHz 4-CH transmission channel selection.[**Default:** In-Band 4-CH]
(Note: Only one mode work at a time. If you want to use out-band mode, the **TX** transmitter and **RX** receiver must made the same jumper setting, please reference to the **Appendix A.**)

In-Band Mode			Out-Band Mode		
CHANNEL	CH SELECT	FREQUENCY (MHz)	CHANNEL	CH SELECT	FREQUENCY (MHz)
CH1	ON 1 2 3 4	2414	CH1'	ON 1 2 3 4	2490
CH2	ON 1 2 3 4	2432	CH2'	ON 1 2 3 4	2510
CH3	ON 1 2 3 4	2450	CH3'	ON 1 2 3 4	2390
CH4	ON 1 2 3 4	2468	CH4'	ON 1 2 3 4	2370

9. ID AND ALARM MUTE: ID address setting is use for paring with **RX** receivers. It must be make the same code setting to link transmitter and receiver each other. The alarm mute function is use for muting built-in buzzer at **TX** transmitter's side only.

Bit 1	Bit 2	Bit 3	ID Address (Pairing with RX)	Bit 4	Alarm Mute
0	0	0	0	0	ON
0	0	1	1	1	OFF
0	1	0	2		
0	1	1	3		
1	0	0	4		
1	0	1	5		
1	1	0	6		
1	1	1	7		
(1 = SW ON, 0 = SW OFF)					

10. ANT: SMA connector for connected to 2.4 GHz antenna.

REMARK: When the frequency channels have the interference, adjust antenna or change the channel of transmitter and don't close to 802.11 a/b/g AP router and other 2.4GHz devices, To use different transmitting channel would be avoid to interference other 2.4GHz device, especially set transmitting channel at out-band mode.

2. Caution for Installation

- 2.1 Be careful, never let any water in this equipment.
- 2.2 If necessary, use a soft cloth moistened with alcohol to wipe off the dust.
- 2.3 Be extra careful not to shake the unit.
- 2.4 Avoid places where temperatures exceed 50 °C or higher.
- 2.5 Avoid places where there are frequent vibrations or shocks.
- 2.6 When any abnormalities occur, make sure to unplug the unit and contact your local dealer.

3. Packing

- 3.1 Transmitter ×1
- 3.2 Antenna ×1
- 3.3 User manual ×1
- 3.4 Screws ×4
- 3.5 Plastic-Conical-Anchor ×4
- 3.6 Power Adaptor ×1 [Option]

4. Specification

CHANNEL/ FREQUENCY	In-Band	CH1	CH2	CH3	CH4
	4-CH	2414 MHz	2432 MHz	2450 MHz	2468 MHz
	Out-Band	CH1'	CH2'	CH3'	CH4'
	4-CH	2490 MHz	2510 MHz	2390 MHz	2370 MHz
RF IMPEDANCE	50 Ω Typical				
POWER SUPPLY	DC12V/1.5A Adaptor				
CURRENT CONSUMPTION	350mA Typical , Start-up current 650mA (DC12V Input)				
DC OUTPUT	DC12V/750mA				
RF OUTPUT POWER	1.0 W				
VIDEOINPUT	1.0 Vp-p Composite @ 75Ω				
AUDIO INPUT	2.0 Vp-p Typical, 2.7 Vp-p Max. @ 600Ω				
ALARM INPUT	TTL/CMOS (Level Detection)				
DIMENSIONS (without Antenna)	L:86 mm	H:30 mm		D:110 mm	

Appendix A: How to Shift the TX Transmitter and RX Receiver from In-Band 4-CH to Out-Band 4-CH by Jumper Setting.

STEP 1: Unscrew back-panel screws.

TX

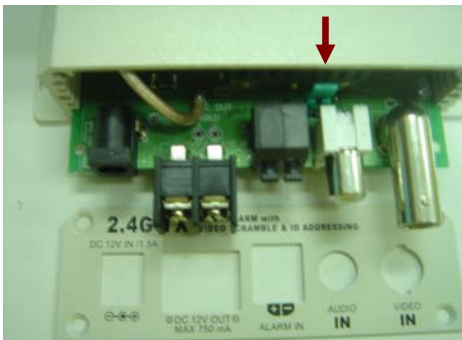


RX



STEP 2: Pull the board outside and you can see a jumper there. (Note: Don't pull too much. Same as the picture bellow is good.)

TX



RX

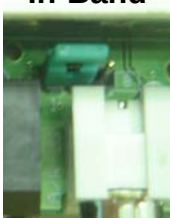


STEP 3: Jumper configuration for 2.4G TX and RX.

In-Band

Out-Band

TX



In-Band

Out-Band

RX



In-Band Mode

CHANNEL	CH SELECT	FREQUENCY (MHz)
CH1	ON 1 2 3 4	2414
CH2	ON 1 2 3 4	2432
CH3	ON 1 2 3 4	2450
CH4	ON 1 2 3 4	2468

Out-Band Mode

CHANNEL	CH SELECT	FREQUENCY (MHz)
CH1'	ON 1 2 3 4	2490
CH2'	ON 1 2 3 4	2510
CH3'	ON 1 2 3 4	2390
CH4'	ON 1 2 3 4	2370