

## **JY9001 circuit of description**

- 1、 When battery (or adapter) is inserted properly; Turn on power switch (S1) in ON position, Led5 of the power indicator lights up green. (if low power, Led5 of the power indicator lights up orange)
- 2、 Channel setting: By pressing button (sw1), 2 channel of A/B/can be selected, and one led of LED1、LED2、lights up green, It indicates this channel being set.
- 3、 Signal source selection:
  - 1) 、 when switch (SW2) is in “CAMERA” position, VIDEO signal only from camera1, AUDIO signal only from mic phone.
  - 2) 、 when switch (SW2) is in “AV” position, external VIDEO& AUDIO signal only external.
- 4、 AUDIO signal modulation: 1) AUDIO signal from microphone amplified by IC1C or external AUDIO from jack2 can be sending into sub-carrier oscillator of 4.5MHZ, 2) the sub-carrier of 4.5 MHz send into VCO and modulated.
- 5、 VIDEO signal modulation: 1) VIDEO signal from camera1 or external jack2 sent into VCO and modulated
- 6、 VCO oscillator circuit: Frequency of VCO selection by pressing SW1, MCU send data of channel into PLL synthesizer (IC3), at the same time this data will be save by IC5 (93C46) and then PLL synthesizer (IC3) send signal to VCO, VCO can generate 2 kinds of RF signal

(909MHz/921MHz).

7、RF AMP circuit: RF signal of VCO is amplified by Q5 and Q6, and then transmission out by ANT.

8、Power supply and low power indicate: 1) IC6 regulate 5V voltage, when battery voltage is low, LED5 lights up orange.

9、Infrared night-led control; In darkness, value of R76 (CDS) enlarges; Voltage of pin 1 of CAMERA1 became low, and the LED of infrared in CAMERA1 light up. In daylight value of R85 (CDS) reduce, Voltage of pin 1 of CAMERA1 became high, the LED of infrared in CAMERA1 light out.