

2V01VIB Video monitor circuit description

1. Product Description.

This device is designed only to monitor the baby's sounds and actions by microphone and camera sensor, the device comprise a parent unit (PD170765) and a child unit (PD170766).

Operating frequency band:

FHSS: ISM 2.403GHz ~ 2.4795GHz with GFSK transceiver operation.

Power supply:

- Child unit – Switching power supply AC 120V/DC5V 700mA, batteries 3 AA 4.5V.
- Parent unit – Switching power supply AC120V/DC5.0V 700mA and recharge battery AA 2.4V/1800mA .

2. operation description

2.1 Child unit

- IR LED D1 ~D6 for nightlight function, automatic on/off by sensor (R58) detect the ambient light.
- J8 is a connector of CMOS camera sensor module, it can be taked pictures and send video data to U1 (C7280 module - multimedia processor).
- U1(C7280 module) is a multimedia processo, perform the encoding for the video and audio, and control the transceiver.
- RF module, the transmitting data rate around 2Mbps, 18 channels for the FHSS.
- SW4 for the system power on/off button, U2-6 for low dropout regulator that the DC output voltage are 1.8V, 2.8V,3.3V, 3.3V, 1.2V and 3.3V.

2.2 Parent unit

- LCD1 for TFT 2.4"LCD panel.
- U7 for the backlight LED power supply for TFT LCD.
- U1(C7280 module) is a multimedia processo, perform the decoding for the video and audio, and control the transceiver.
- U4(YD8602) is an audio power amplifier.
- RF module, the transmitting data rate around 2Mbps, 18 channels for the FHSS.
- SW4 for the system power on/off button, U3,5-6,8-9 for low dropout regulator that the DC output voltage are 1.8V, 2.8V,3.3V, 3.3V, 1.2V and 3.3V.
- J9 is 3.0V motor for vibration function, and can be action when the 3nd LED lighted.