

## **Circuit description of MG-5808&MG-6808**

### **Circuit description of Monitor part (Receiver)**

The Monitor (Receiver) is composed of electrical source management module, Micro controller, Video management module, wireless 2.4GHz receiving module and TFT-LCD panel. The Monitor (Receiver) receives compound video signal based on wireless and wired transmission modes which the default mode is wireless transmitting. When connect the Camera (Transmitter) which model No. is MG-5808 to the Monitor (Receiver) which model No. is MG-6808, then the whole system will be wired mode. The compound video signal will be switched to 8bits digital signal to the TFT-LCD panel to display, meanwhile, there is also a compound video signal output which can output to TV. The electrical source management system have low voltage inspecting function, Li-battery charging management function, DC/DC high efficiency switch function. The whole working status is controlled by the Micro controller system.

### **Circuit description of Camera part (Transmitter)**

The Transmitter contains two parts: Grip part and Camera part. The Camera part is composed of camera chipset and LED lights. The Grip part is composed of power supply, power supply adjustment, LED lights control, wired transmission output and 2.4GHz wireless transmitting, which the power source is by 4 AA type dry batteries. The Grip part provides power to the Transmitter and controls the LED lights, the Camera part provides video signal to the Grip part, which the two parts are connected by a soft tube to test or inspect the hard-to-reach areas.

The Camera has wireless and wired transmission modes, when the Monitor (Receiver) is connected to the Grip part of Transmitter, then the working status is wired mode, when the Monitor (Receiver) apart from the Grip part, then the working status is wireless transmission mode.

