

# Circuit Description

The outside machine part has DC and the battery two power supply ways, the indoor machine only supports the DC power supply, the indoor machine and outdoor machine when does not use maintains the condition which waits for an opportunity, this time, the indoor machine may by outdoor machine awoken, may also by indoor machine awaken on own initiative. After the outside machine presses the doorbell key (K101), starts the bell, simultaneously CPU(U101) will produce the control signal, WM8731 (U104) receives the MIC sound, the OV7725 output's image (U108) (2.4GHz) transmits through RF to indoor machine; After the indoor machine receives the outdoor machine calling signal, CPU (U9) judges the outdoor machine condition automatically, opens the display monitor and demonstrated that the corresponding active status, simultaneously also the sound which receives RF Module (U3) D/A transforms after WM8731 (U5) outputs after power amplifier PT5322; The receive image signal divides into two groups, A group signal after the TFT actuation chip CT674(U14) from the display monitor the display image, another group (U2) transforms after D/A makes the Video output through CS8553. If the outdoor machine call indoor machine, the indoor machine had inserts the SD card and the video recording function already opened, while which awakened meets the synchronized start video recording. The indoor machine awakens is at on own initiative in the outdoor machine call's situation, looks at outdoor (this function from the room court eunuch only when outdoor machine by the DC power supply effective); This time, when indoor machine presses monitors the key, then the indoor opportunity the control signal will transmit through RF for outdoor machine, awakens outdoor machine starting, simultaneously the outdoor opportunity gives again the sound and the image through the RF feedback indoor machine, thus in indoor machine display image and output sound.