

Operation Description

The Set Top Box with Camera is a standalone multi-function product with a one channel receiver at frequency of 171.045 MHz. It has a total of 4 different features:

1. Music Player (supports CD and CDG Karaoke text graphic)
2. Microphone input for Karaoke function
3. Wireless Microphone Receiver for Karaoke function
4. Built-in Video Camera

(Details shall be referred to the manual.)

Refer to circuit design, the brief circuit description is listed as follows:

1. IC1, IC3, IC4, IC5, Q1, Q2, Q3, Q4, Q5, Q6, Q8, X1 and associated circuit act as CD decoding, display and control and have an operation clock of 16.9 MHz.
2. IC501, IC502, Q501, Q502, Q503, X501 and associated circuit act as Karaoke text graphic decoding and have an operation clock of 14.318 MHz.
3. IC603, Q302, Q601, Q602, Q603, X601 and associated circuit act as RF/OSC/IF amplifier for wireless microphone receiving and as Karaoke microphone control and have an operation clock of 53.448 MHz.
4. Q301, Q401, Q402 and associated circuit act as audio amplifier
5. Camera module IC1, IC2, Z1 and associated circuit act as video camera which have an operation clock of 14.318 MHz.