

**Applicant: Jannersten Forlag AB**

**FCC ID: X9XTBS**

## **Operation Description**

The system use a MCU (Microcontroller) chip ST2205U, most of function can be finished by one chip, such as key detective, and it is the part of RF operating circuit. The transmitter is made of U1 (ST2205U), RF module U11, U2 is ID code storage IC, U6 and U7 is LCD display controller, U4 and U8 are power management IC. U4 is the voltage regulator for system, U8 is the voltage regulator for RF module U11, U4 and U8 make the battery's voltage reach 3.3V to support the system and RF module working. Clock oscillator is made of U1 internal circuit and Y1, Y2 surrounding circuit, and it can supply the power for clock pulse. Once press the "Power" key, U1 will be process and display will turn "ON". When press the "Start" Key, U1 will finish all the data code internal and modulate, then enlarges by internal circuit, at last it delivered to the air by antenna. U2 is memory, after the device and receiver code connect together successfully, U2 will record this code and backup it for next time.

Antenna is formed by a short copper wire soldered on the PCB. Common grounding on PCB is not connected to real external ground. Power supply is DC 4.5V by three "AA" batteries.