

**EXHIBIT 3**  
**Block Diagram, Schematics,**  
**Parts List, and Description**

## **Technical Description of the Cox Hobbies "Recon" Transmitter (PN 460209)**

The Recon transmitter is designed to signal a receiver to trip the shutter of a camera being flown in a model aircraft. All production Recon transmitters will operate on 27.145MHz.

The transmitter circuitry consists of a serial code encoder, a 27MHz crystal controlled oscillator, a power amplifier, and an antenna matching network. The antenna for the unit is a collapsible type 1 meter in length. The circuitry operates on two 9 volt batteries connected in parallel.

All circuitry is mounted to a printed circuit board which is mounted inside a hand-held molded plastic housing. The antenna is mounted to, and extends from the top of the housing.

Attached to the printed circuit board is an 'arm' slide switch, and a 'transmit' push button. A yellow LED lights when the power switch is moved to the 'on' position. A red LED lights when the 'transmit' button is pressed to power the transmitter.

In operation, a pre-assigned serial code is used to AM modulate the crystal controlled oscillator at a rate of approximately 1KHz whenever the 'transmit' button is pressed. The modulated oscillator power is then amplified by the power amplifier circuit and passed to the antenna matching circuitry.

The transmitter circuitry only operates for the period of time the 'transmit' button is pressed. The system is designed such that the transmission time to operate the camera is typically less than 5 seconds.

**EXHIBIT 2**  
**Photographs**  
**EUT - Range**

