The functional components of the Fun Saver single use camera is its lens, shutter, film, circuit board, battery and viewfinder. The camera has many parts that seem minuet and unimportant individually but putting them together can create a single use camera. Some other parts of the camera include the winding gear to advance to the next picture, the actuating button, lens holder, and frame. These pieces are all made out of ABS plastic. ABS plastic is a thermoplastic polymer. Other parts like the aperture and springs are made out of steel. The camera functions within 4 main systems, the mechanical systems, electrical systems, the film systems and the signal processing.

The outside of the camera is designed so that it will not allow any light to go into the camera. This prevents the light from damaging the film. For the camera to work the flash is connected to the circuit board. Without the circuit lard the camera would not work. The film is embedded in the camera and rolled at one end of the camera to the other side without the protective casing. This way the film can be taken out of the camera to be developed. When one is taking a picture the person presses down on the button at the top of the camera which activates a spring loaded shutter. The shutter opens for a set period of time to embed the image onto the film.

The disposable camera is mostly made out of plastic. Different types of plastic like black plastic and clear are used for different parts in the camera. The gears and mechanisms inside the camera are also made out plastic. The circuit board is made with silicon and various metal components, like the capacitor attached to it. The lightbulb on the circuit board is made from glass. The assembly and disassembly of the camera is fairy easy because the film has to be taken out of the camera once it is all used up.

Many parts of the camera are reused and recycled. On the wrapping that the camera comes on it advises the person the recycle the camera once it is used up. Also many drug stores take the used cameras to be recycled. The plastic that makes up the lens, shutter, and gears are all recycled. The circuit board may also be recycled and reused as well as the battery. Many of these parts can be recycled because they see little use and wear and tear in the 23 exposures that it can handle at one time. It is said that 75% of the camera is recycled. The circuit board can be reused more times than the plastic parts can.
Packaging

Electric Flash System and Battery

Shutter

Film and Lens

Housing Shell and Framing System

Circuit board and flash

Film

Outer housing
Functional Decomposition Diagram for Single Use Camera
Process Flow Chart of a Disposable Camera

1. Winding wheel turned
2. Film advances
3. Flash trigger engaged
4. “Flash Ready” light turns on
5. Voltage boosted by oscillator
6. Battery charges capacitor
7. Trigger button pushed
8. Shutter is opened and image goes onto film
9. Flash powers down after discharge
10. Exposed film moved to canister and developed
11. Winding wheel turned