components - http://www.madehow.com/Volume-3/Black-Box.html

1) Power supply - battery - rechargeable / lithium battery

2) Crash Survivable Memory Unit (CSMU) – Computing system

3) Integrated Controller and Circuitry Board (ICB) - switchboard for the incoming data. – Computing system

4) LTE part for data communication - Signal processor of black-box for drone - <https://patents.google.com/patent/KR20180125182A/en?q=Drone&q=Black&q=box&oq=Drone+Black+box>

5) Save the data in the black box and also use AWS S3 or any other object based storage system for data storage incrementally - every 1 minute, stores videos or streaming data

6) Remote ID, or the ability to identify and establish ownership of a drone from a distance, is another area that will be key for the future, both for drone users and public safety officials.

7) <https://patents.google.com/?q=Black&q=box&oq=Black+box> - encrypt/decrypt data

8) Vehicular black box monitoring system

9) Cooler for the computer

10) capacity of carry – 100lbs – multiple compartments – digital sorter

11) multiple location

12) bar code reader for package selection- customer receipt scan – app in your phone

13) Signature path – Sign off – by customer

14) ISO 9001:2000 certification – QA cert – Product liability insurance

15) Black boxes are fitted with an underwater locator beacon that starts emitting a pulse if its sensor touches water. They work to a depth of just over four kilometres, and can "ping" once a second for 30 days before the battery runs out,

16) an interface for the blackbox – like how can we access data physically from the blackbox (apart from transmitted data over LTE) or how to troubleshoot something

17) Save flight path (like google timeline)

18) how to mask people’s face and vehicle registration plate numbers, if drone comes across any. (I think that is a risk)

Resources:

Possible Patent of drones in USA, google patent <https://patents.google.com/?q=Black&q=box&oq=Black+box>