

NATIONAL TRANSPORTATION SAFETY BOARD
Vehicle Recorder Division
Washington, D.C. 20594

September 3, 2013

Electronic Device Factual Report

Specialist's Factual Report
by Bill Tuccio

1. EVENT

Location: Chesterfield, Missouri
Date: August 3, 2013
Aircraft: Cirrus SR22
Registration: N225CD
Operator: Private
NTSB Number: CEN13FA456

On August 3, 2013, at 0510 central daylight time, a Cirrus SR22, N225CD, was destroyed when it impacted trees and terrain about 0.6 nautical miles (nm) west of the Spirit of St. Louis Airport (SUS), Chesterfield, Missouri. The wreckage was fragmented and a post impact ground fire consumed much of the airplane's wings. The airplane was departing from SUS and was en route to Dalhart, Texas. The private pilot and one passenger received fatal injuries. The airplane was registered to 225CD LLC and operated by the pilot under the provisions of the 14 *Code of Federal Regulations* as a Part 91 personal flight. Instrument meteorological conditions prevailed at the time of the accident, and an instrument flight plan was filed.

2. DETAILS OF DEVICE INVESTIGATION

The Safety Board's Vehicle Recorder Division received the following devices:

Device 1: Avidyne CF Card
Device 2: GoPro Hero 3 Video Recorder
Device 2: Drift HD Video Recorder

2.1. Avidyne CF Card Device Description

The Avidyne CF card is a removable device capable of recording historical flight information from the Avidyne multifunction display.

2.1.1. Avidyne CF Card Data Recovery

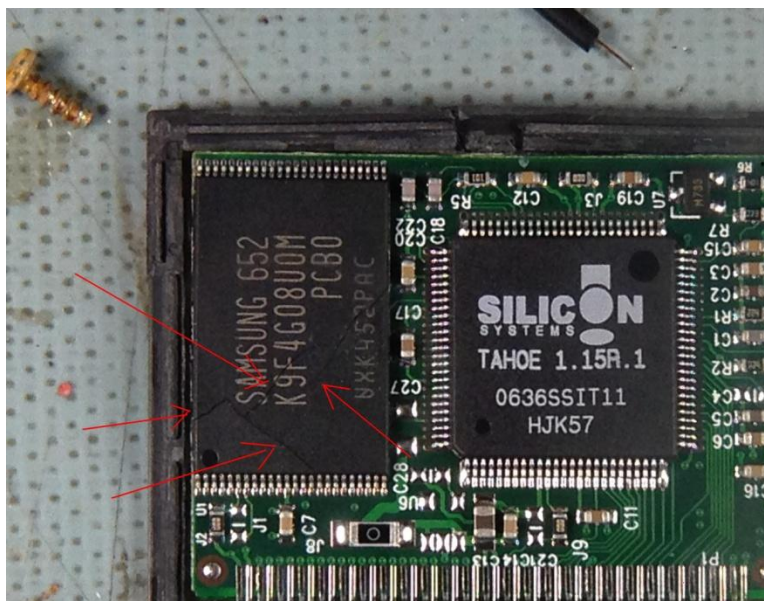
Upon arrival at the Vehicle Recorder Laboratory, an exterior examination revealed the card had sustained impact damage, as shown in figure 1. An internal inspection

revealed the memory chip was cracked, as shown in figure 2. Further recovery was not attempted.

Figure 1. Avidyne CF card, external view.



Figure 2. Avidyne CF Card, internal view of memory chip.



2.1.2. Avidyne CF Card Data Description

No data was recovered from the card.

2.2. GoPro Hero 3 Device Description

The GoPro Hero device is a self-contained, battery powered camera/recorder that stores both audio and high definition color imagery to an on-board microSD memory card. The duration of the recorded video is a function of the size of the memory card, the selected frame size, and recording frame rate.

2.2.1. GoPro Hero 3 Data Recovery

Upon arrival at the Vehicle Recorder Laboratory, an exterior examination revealed the unit had not sustained any damage. The microSD card was examined, however, no files pertinent to the accident flight were discovered.

2.2.2. GoPro Hero 3 Data Description

No data pertinent to the accident flight was recovered.

2.3. Drift HD Device Description

The Drift HD device is a self-contained, battery powered camera/recorder that stores both mono audio and high definition color imagery to an on-board SD memory card. The duration of the recorded video is a function of the size of the memory card, the selected frame size, and recording frame rate.

2.3.1. Drift HD Data Recovery

Upon arrival at the Vehicle Recorder Laboratory, an exterior examination revealed the unit had not sustained any damage. The SD card was examined, however, no files pertinent to the accident flight were discovered.

2.3.2. Drift HD Data Description

No data pertinent to the accident flight was recovered.