

NATIONAL TRANSPORTATION SAFETY BOARD

Vehicle Recorder Division

Washington, D.C. 20594

July 11, 2012

17 - Video Factual Report

**Specialist's Factual Report
by Bill Tuccio**

A. EVENT

Location: Rexburg, Idaho
Date: June 15, 2012
Aircraft: Roetman Eagle
Registration: N106BD
Operator: Private
NTSB Number: WPR12LA265

B. GROUP - No Group

C. SUMMARY

On June 15, 2012, at 1940 mountain daylight time, an experimental Roetman Eagle, N106BD, impacted terrain while performing barrel rolls at the Rexburg-Madison County Airport (RXE), Rexburg, Idaho. The pilot/owner operated the airplane under the provisions of 14 Code of Federal Regulations Part 91. The pilot sustained serious injuries, and there were no ground injuries. The airplane was substantially damaged. The flight departed RXE for a practice flight for the Legacy Airshow. Visual meteorological conditions prevailed for the local area flight, and no flight plan had been filed.

D. DETAILS OF INVESTIGATION

On June 29, 2012, the NTSB Vehicle Recorder Laboratory received the following device(s):

Device Manufacturer/Model:	Drift HD
Serial Number:	unknown

Drift HD Device Description

The Drift HD is a portable, all-in-one recording device utilizing a 170 degree lens, capable of recording high definition still and video images and audio. The unit records to a removable micro SD card in a PC readable format, using a *.mov format, H.264 codec for video. Micro SD cards can be up to 32GB in size. The unit is powered by a rechargeable 3.7 Volt Lithium-ion battery. The unit can be operated by a wireless remote. The unit has a user settable internal clock which is reset whenever power is removed from the device, including when the battery discharges. Recorded video is written directly to the micro SD card without internal buffering, and can be downloaded via a mini USB cable or by removing the micro SD card. According to the manufacturer, if power is removed from the camera prior to the user stopping the video recording, the video may be unrecoverable from the micro SD card.

Drift HD Data Recovery

Upon arrival at the Vehicle Recorder Laboratory, an exterior examination revealed that the unit had sustained minimal damage (see figures 1-3). An internal inspection revealed broken wires to the speaker and structural damage to the battery compartment, though the rechargeable Lithium-ion battery was undamaged. The micro SD card was removed from the unit and the contents downloaded normally, without difficulty.

Figure 1. Photo of left and right sides of Drift HD.



Figure 2. Photo of front of Drift HD.



Figure 3. Photo of back of Drift HD with micro SD card removed.



Draft HD Data Description

The 16GB micro SD card contained 9 files, labeled “file0001.mov” through “file0009.mov.” All files were of varied length, except “file0009.mov,” which was 0 bytes in size. While “File0001.mov” through “File0008.mov” all opened and played normally, the contents were not pertinent to the investigation. “File0009.mov” could not be opened. None of the timestamps on the files were deemed to be reliable due to apparent power interruptions to the unit.

File system recovery software was used to analyze all bytes on the micro SD card in an effort to recover additional information. However, no additional information was recovered.