

Security Analysis of DJI Phantom 3 Standard

Fernando Trujano, Benjamin Chan, Greg Beams, Reece Rivera

May 11, 2016

Abstract

This paper comprises a security analysis of the DJI Phantom 3 Standard [1], a popular consumer drone with an onboard camera and standard set of features. Drones present a novel airborne platform for new commercial and consumer work, and this, in addition to their increasing ubiquity, makes a security analysis especially worthwhile. We present a collection of fatal attacks, minor observations, and associated security vulnerabilities, discovered over the course of a month of research. These vulnerabilities affect both the physical integrity of the drone and the security of user data. Finally, we make a set of recommendations that, if implemented, will dramatically bolster the security of the drone.

1 Introduction

In recent years, commercial drones have become increasingly popular among the public, as models such as the DJI Phantom series make the industry more accessible for consumers. These drones are cheaper and easier to fly than ever before. In addition, increased media attention and advances in aerial, battery, and camera technology have made drones especially attractive for endeavors ranging from aerial film projects to research. The growing prevalence of drones in society, however, poses an immediate security concern. When used properly, drones are harmless and are incredibly useful, providing, for instance, beautiful aerial shots and cinematography. However, when misappropriated, drones can directly lead to invasions of privacy, concerns with aircraft safety, and even result in personal injury. It is essential for the owner of the drone to be able to secure it from attack and misuse. Since regulations now require owner registration, and hold owners accountable for illegal misuse, this becomes an immediate consequence for DJI customers, in addition to concerns for public safety. Therefore, the security of commercial drones should be a chief concern for security researchers, the legislative branch, and drone companies.

The following research was performed with permission from DJI through a responsible disclosure process. Please do not publish or discuss findings in this paper until further notice, after DJI has a chance to review and fix any vulnerabilities.

2 System Overview

First, we introduce the Phantom 3 Standard system, and its various components.

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