



# LiDAR Mapping Systems

## Drone Pilot Training Outline

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**NOTE:** This document provides an overview of the basics of drone Pilot training and relevant components. The product you purchased may not support certain functions dedicated to specific models, upgrades or customizations.

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# Training Outline

- I. Introduction
- II. Safety Guidelines
  - A. Rover Operational Safety
  - B. LiPo Battery Safety
    - 1. General Guidelines and Warnings
    - 2. Pre-Charging Guidelines
    - 3. Charging Process Guidelines
    - 4. Storage/Transportation Guidelines
    - 5. Battery Care Guidelines
    - 6. Battery Life Guidelines
- III. Training Goals
- IV. Software Overview
  - A. DJI GO
  - B. Litchi
  - C. DJI Assistant 2
- V. Hardware Overview
  - A. Aircrafts
    - 1. DJI Matrice 600 Pro
    - 2. Watts Innovations MFD 5000
    - 3. TerraHawk CW-20
    - 4. TerraHawk CW-30
    - 5. Pulse Aerospace Vapor 55
  - B. DJI D-RTK GNSS
  - C. Additional Accessories
    - 1. RunCam HD Camera
- VI. Getting Started
  - A. DJI Matrice 600 Basics
    - 1. DJI Matrice 600 Drone
      - a) Unfolding the Aircraft
  - B. DJI Matrice 600 Remote Controller
    - 1. Power Controller ON/OFF
  - C. Updating Firmware
- VII. Checklist
  - A. Equipment
  - B. Operational Safety
    - 1. Rover Operational Safety
    - 2. DJI Matrice 600 Pro Operational Safety
- VIII. DJI D-RTK
  - A. Hardware overview
    - 1. RTK (Real-Time Kinematic)
  - B. Equipment Setup
- IX. Field Procedures
  - A. D-RTK Setup
    - 1. D-RTK Ground Setup

- B. Proper scanning procedure
  - 1. DJI GNSS Antenna Offsets
  - 2. IMU Calibration
  - 3. Compass Calibration
  - 4. Figure Eights
  - 5. Mirror Beginning and End Procedures
- X. Phoenix Flight Planner

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