

## **LOCATION AND DESCRIPTIONS OF MAJOR COMPONENTS –CONTINUED**

### **GROUND CONTROL STATION (GCS)**

Vehicle Operators (VO) control the Raven B Air Vehicle using the GCS. The GCS allows operations by a standard two-person crew, consisting of a VO and Mission Operator (MO). If operation by a single-person is required, the GC allows VO to control all data and inputs via a single Hand Controller.

#### **NOTE**

Monitor battery voltage to ensure adequate. Failure to maintain adequate battery voltage will result in Loss of Link.

The basic GCS package, containing a single Hand Controller, is packaged in a waterproof soft pack, weighing approx 8.1 lb. (and 13 lbs with laptop included). The GCS is equipped with two battery connectors to allow continuous operation, even while hot swapping batteries. The GCS will operate for approx. 1.5 to 2.0 hours on a single BB-255 battery.



Figure 4. Raven GCS in Soft Pack



Figure 5. GCS Set Up

### **REMOTE VIDEO TERMINAL (RVT)**

A second GCS (with shorter antenna mast) can be used as an RVT. The RVT is used to view real-time video from any location within range of the air vehicle. To operate a GCS as an RVT, leave uplink antenna disconnected and transmitter switched off.

### GCS Contents

Raven B GCS contents as shown in gcs\_contents\_figureFigure 1, (top-bottom, left-right): Soft Pack, Hand Controller, Hub Unit, RF Unit, Controller Hood, Uplink Antenna, GCS Mast, Ethernet Cable, Video Out Cable, Mast Bag, and Umbilical Cable.

