

LIMITATIONS AND DATA

a. General System Data

- 1. Max takeoff weight .....7.6 kg
- 2. Service ceiling .....15,000 ft
- 3. Min. operational safe ALT:
  - 500 ft AGL
  - 1000 ft above datalink LOS

b. UMAS Limitations

- 1. Pitch .....±25°
- 2. Roll.....±30°

c. Airspeed Definitions

- 1. MAX.....50 knots IAS
- 2. CRUISE.....40 knots IAS
- 3. LOITER.....33 knots IAS

d. Datalink

- 1. Max range.....15 km

## **L-2**

### **e. Weather**

#### **1. Max wind limitations**

- Launch wind limits ..... 20 knots headwind,  
up to 45° cross wind
- Airborne wind limits ..... 40 knots

#### **2. Precipitation**

- Max..... 4 mm\h rain

#### **3. Environmental Temperature for Launch**

- Min. .... (-10)°C
- Max..... +45°C

#### **4. General**

- It is forbidden to launch during snow fall.
- It is forbidden to fly below or inside a CB cloud.
- Flight above freezing ALT is allowed only
- 500 ft below visible humidity: clouds, fog, mist, rain or showers.

### **f. MUAV Battery Power**

#### **1. Green zone.....24.5 to 29.5 V**

#### **2. Yellow zone.....23 to 24.5V**

#### **3. Red zone .....Lower than 23 V or above 29.5 V**

#### **4. Components operational limitations..21.5 to 29.5 V**

**g. MUAV Power Consuming Devices**

1. TX-S .....28 V
2. RX - UHF .....5 V
3. UMAS.....12 V
4. IMU .....12 V
5. Payload .....28 V & 12 V
6. Engine.....28 V & 5 V
7. SERVOS.....5V

**h. Launcher and Launch**

1. Min. pitch angle.....10°
2. Max. pitch angle.....17°
3. Max. bank angle .....±5°
4. Triangle Safety Zone:



#### **L-4**

Standing in triangle zone is forbidden:

- During PF
- During propeller foldout in PF checks
- When battery is connected.



The launcher rubber bands are extremely powerful when stretched. Do not stand in front of the launcher after stretching the launcher rubber bands. Failure to comply may result in death or injury to personnel.

#### **i. Parachute**

1. Max IAS on parachute opening .....40 knots (CRUISE)