**Breakdown List**

**Tabletop Design**

**Weight**

Target- 100

Actual- 102.5

Box- 52 lbs

Mounting Hardware- Aluminum, brackets available from Pelican

**Gunner Handle**

Mounting Linkage Components – 2

Degrees of Freedom – 2

Durability – high

Adjustable height - yes

Placement issues (tipping) – minimal, only when handle is deployed and straps are not engaged

**Monitor**

Mounting Linkage Components – 1

Degrees of Freedom –1

Rigidity- medium-high. Monitor can slight on track

Protection (from gunner handle, impact force (sway space))- Good, the monitor will have a layer of foam and a layer of hard plastic protecting it from other components, and a stop will prevent the handle from crashing into it.

**Computer**

Mounting Hardware – Screwable bracket

Air Ventilation – high, two lids in addition to at least an inch of space on every side with exhausts and intakes greatly aid ventilation

Ease of Access – med-high, computer will have to be removed in order to gain access to USB and audio ports

**Extra Components**

Location of headset, keyboard, mouse – bagged in lid during transport

Issues with wiring?- Minimal, as computer is located next to monitor

**Case**

Durability – High, steel reinforcements on side

Sliding – Straps will greatly reduce the risk of sliding

Portability – Medium. Wheeled, but requires table and too heavy for one person to lift

User Convenience– medium. Easy to setup, breakdown and open for repairs, but must be lifted onto table.

Manufacturing - Excellent

**Box on Floor Design**

**Weight**

Target- 100lb

Actual- 73.1lb + mounting hardware

Box- 34.1

Mounting Hardware- less than 30lb

Center of Gravity- within the bounds of the box support structure with all components fully extended

**Gunner Handle**

Mounting Linkage Components – 6

Degrees of Freedom – 2

Adjustable height - Yes

Placement issues (tipping) - Little

**Monitor**

Mounting Linkage Components – 6

Degrees of Freedom – 1

Rigidity- rigid

Protection (from gunner handle, impact force (sway space))- large

**Computer**

Mounting Hardware – bracket

Air Ventilation – Adequate

Ease of Access – Simple

**Extra Components**

Location of headset, keyboard, mouse – in foam inserts or bag in lid

Issues with wiring?- none foreseeable

**Case**

Durability – made in same manner as other pelican cases, no metal reinforcements in sides

Sliding – minimal

Portability – one person transit once on ground

User Convenience - little leg room

Manufacturing -

Requires design or adaptation of internal rack system and shock mounts

Bracket for handle must be custom made

Monitor and computer brackets can be “off the shelf” components

Computer bracket can be adapted from “off the shelf” components