

LISAD[®] & WISAD[®] - ENVIRONMENTAL SENSING MODULAR PARACHUTE DISCONNECT

LISAD[®] (LAND)

LISAD[®] is a land sensing parachute disconnect system developed and tested by IrvinGQ[®] for use on aerial delivery systems. Unlike traditional parachute disconnects, it releases upon sensing impact with the ground which is inherently more reliable and independent of wind speed.

- + LISAD[®] is armed upon deployment of the main parachutes, significantly reducing risk of early release.
- + Upon impact with the ground the sensing actuator is triggered, which in turn operates the disconnect body, releasing the risers.
- + The LISAD[®] consumable set is comprised primarily of activation cables and a sacrificial land sensing rod, requiring no electronics and no pyrotechnics.
- + LISAD[®] requires only one man for rigging and maintenance activities, reducing the operational burden.

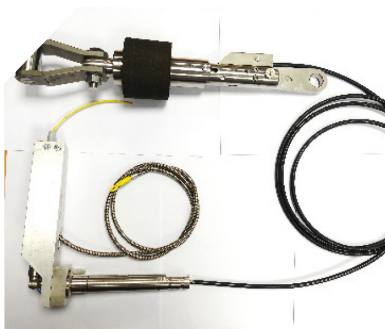


Fig 1: The LISAD[®] system



Fig 2: LISAD[®] in aircraft



Fig 3: Activated LISAD[®] System

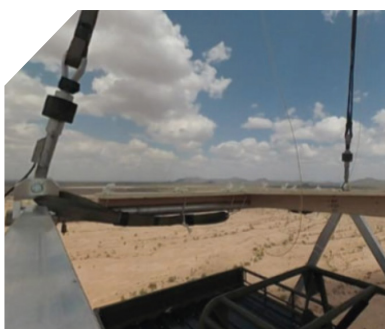


Fig 4: Disconnect linked to parachutes



Fig 5: LISAD[®] triggering upon impact



Fig 6: Disconnect releasing

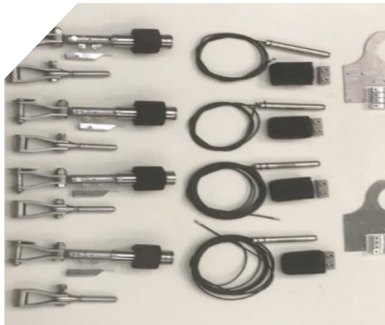


Fig 7: WISAD® boat equipment set



Fig 8: Parachute disconnect upon splashdown

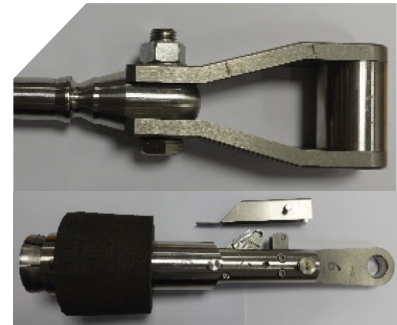


Fig 9: RCAD Disconnect
Fig 10: Webbing adaptor

WISAD® (WATER)

WISAD® is a water sensing parachute disconnect system developed and tested by IrvinGQ® for use on maritime aerial delivery systems. Unlike traditional parachute disconnects, it releases upon sensing immersion in water which is inherently more reliable and independent of wind speed.

- + WISAD® utilises a proprietary water sensing cartridge that triggers the actuator upon immersion, which in turn operates the disconnect body, releasing the risers.
- + The WISAD® consumable set is comprised primarily of water sensing cartridges and activation cables, requiring no electronics and no pyrotechnics.
- + WISAD® requires only one man for rigging and maintenance activities, reducing the operational burden.

EQUIPMENT SPECIFICATION

- + Single disconnect has an approx. volume of 375mm x 100mm diameter, weighing 5kg
- + Compatible with most in-service cargo parachutes, including the G11, G12 and SC15
- + Maximum load 26,000 lbs
- + Can be retro fitted to in-service airdrop systems
- + Universally compatible with aircraft cargo handling systems, including C130, C17, C5, A400M & KC390
- + Environmentally tested to Def Stan 00-35 Part 3. (Shock, Vibration & Impact, Salt Corrosion, Sand & Dust, Hot & Cold)

TECHNICAL SPECIFICATION FOR WISAD® & LISAD®

DZ Wind Limits	35 knots
Operation	Land & Water
Activation	Mechanical Ground contact (or water)
Capacity	Up to 42,000 lbs using 4 disconnects
Maintenance	Unit level No special tools No test equipment
Gross Weight	18lbs per unit 72lbs per Sys