



# EB 80



**LIGHTWEIGHT  
EMERGENCY  
PARACHUTE**





# LIGHTWEIGHT EMERGENCY PARACHUTES

The IRVIN range of Lightweight Emergency Parachutes feature a rapid opening canopy with net-filled cut-outs to provide good stability and nominal drive. A net skirt is incorporated for increased deployment reliability.

A simple pull of the ripcord releases the externally stowed, auxiliary parachute which is secured directly to the rip-pins by through-the-pack closure loops. This means of closure maintains the pack's slim profile, allows a compliant flexible design, prevents canopy slump and obviates the need for pack opening elastics.

The low profile, tapered pack and integral harness has been designed for long flight duration, comfort and compatibility with most aircraft seats, restraint harnesses and associated aircrew survival equipment. The very clean shape aids a snag-free bale-out. The three-point harness is robust, simple to don and adjust, has padded shoulders and covered lift webs.

Versions of the IRVIN range of Lightweight Emergency Parachutes are available that incorporate:

- 3-ring canopy release and canopy water pockets for increased safety during descents into water
- Steering control lines
- Harness straps compatible with aircrew survival equipment
- Adjustable lower harness straps for personnel of short stature
- Integral, jettisonable safety strop for loadmasters and jumpmasters
- Sheepskin backpad and lumbar support pad



## GENERAL TECHNICAL SPECIFICATION

### Performance Data

Maximum deployment altitude:	3050m (10,000 ft) AMSL
Maximum deployment speed:	275 km/hr (150 knots) IAS
Rates of descent:	
AUW 70 kg (155 lb)	3.8 m/s (12.5 ft/s)
AUW 115 kg (253 lb)	5.4 m/s (17.7 ft/s)

### Weight and Dimensions

Weight (Complete assembly):	6.5 kg (14 lb)
Pack dimensions:	
Length	533 mm (21 in)
Width	360 mm (14 in)
Depth at top:	75 mm (3 in)
Depth at bottom:	125 mm (5 in)



**Irvin Aerospace Limited**

Icknield Way, Letchworth, Hertfordshire

Great Britain, SG6 1EU

Telephone: 01462 482000

Facsimile: 01462 482007



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## Parachute Assembly

The IRVIN EB80 lightweight emergency parachute assembly is suitable for use in a wide range of light aircraft, gliders, helicopters and balloons. The compactness of the design makes the EB80 particularly attractive for installations where space is at a premium. The assembly is designed to operate safely at all-up weights not exceeding 115 kg (253 lb). The clean, contour styled pack and harness enables a fast, clean bale-out to be made in the event of an emergency.

## Parachute

The EB80 embodies a new, state-of-the-art, fast opening parachute designated IRVIN Type H112. The parachute is steerable and features a block constructed canopy. An extended skirt and net filled cut-outs are incorporated to give good stability and a net skirt to enhance deployment reliability. The Type H112 is a civil version of the Type H110 used in the IRVIN B Mk 70 military parachute assembly. During trials of the military assembly, the Ministry of Defence testing agency reported,

"... and tests to date indicate that the parachute performance is far superior to that of any previous emergency parachute."

## Auxiliary Parachute

Deployment of the parachute, following operation of the

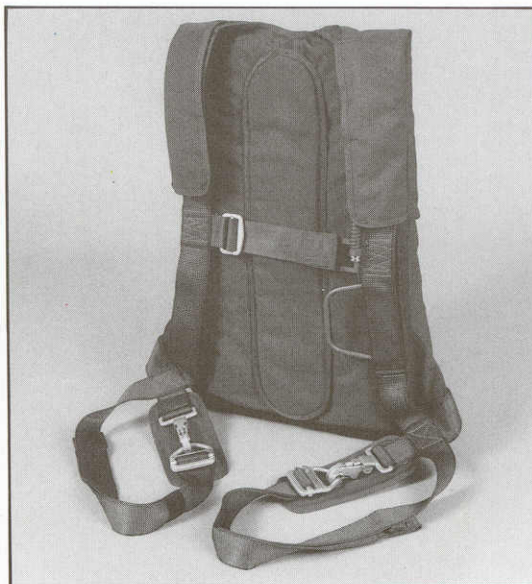
ripcord handle, is initiated by a 'Pop-Top' auxiliary parachute system, mounted on the outside of the pack and secured by means of through-the-pack closure loops. The system ensures rapid deployment of the parachute and eliminates the need for pack opening bands.

## Pack and Harness

The flexible, low profile pack with integral harness is designed and built for long duration comfort. The outer profile of the pack tapers inwards from the bottom edge to the shoulders, thereby minimising snagging hazards during bale-out. To avoid damage and minimise inadvertent opening of the parachute pack, the rip pins and pack closure loops of the through-the-pack ripcord system are located at the inside wall of the pack, and protected by a padded cover. The three point harness is of simple robust construction. Fastening and fitment is effected by adjustable buckles. For comfort, padding is incorporated at the shoulders and the lift webs are covered to afford a means of protection against actinic degradation. For further comfort, a sheepskin back pad and a lumbar support pad can be supplied as optional extras.

## Carrying Bag

The parachute is supplied complete with a ruck-sack style carrying bag.



## Technical Specification

Overall pack dimensions (nominal):

Length	: 580 mm (23 in)
Width	: 360 mm (14 in)
Depth, bottom edge (tapering to)	: 125 mm (5 in)
Depth, top edge	: 75 mm (3 in)
Weight (nominal) complete assembly	: 6.5 kg (14 lb)

## Performance

Maximum permissible AUW	: 115 kg (253 lb)
Typical rates of descent:	
At 70 kg (155lb) AUW	: 3.8 m/s (12.5 ft/s)
At 115 kg (253 lb) AUW	: 5.4 m/s (17.7 ft/s)
Recommended maximum deployment speed	: 150 knots EAS
Maximum deployment altitude	: 10,000 ft AMSL

## TRADE DESCRIPTION ACT (1968)

The information contained in this leaflet is presented in good faith following extensive testing of the described equipment. It is, however, liable to variations due to the widely differing circumstances under which the described equipment is likely to be used.

## PRODUCT IMPROVEMENT

The IRVIN policy is one of continuous development and improvement. In accordance with this policy, IRVIN Great Britain Limited reserves the right to amend the specification and design of its products from time to time.

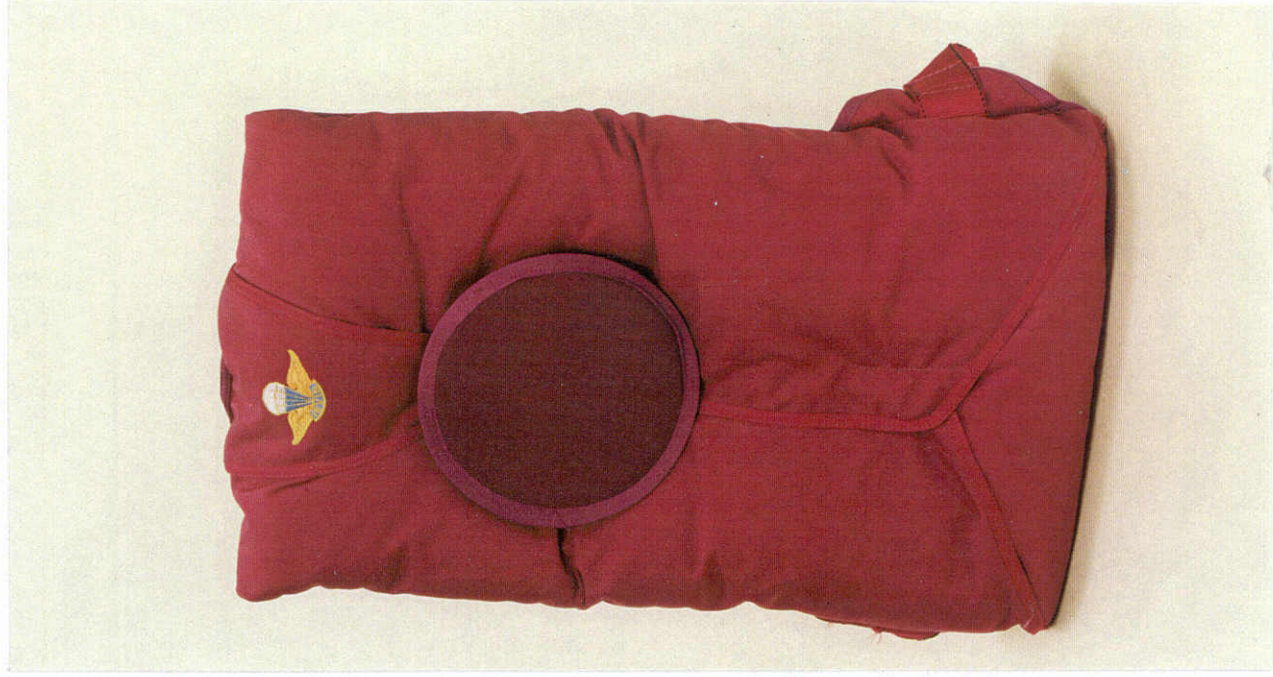


**IRVIN GREAT BRITAIN LTD.**

Icknield Way, Letchworth, Hertfordshire, Great Britain, SG6 1EU  
Telephone: Letchworth (0462) 482000 Cables: Irvin Letchworth  
Telex: 82198 IRV GB Facsimile: 0462-482007 Group 3







IRVIN EMERGENCY ESCAPE PARACHUTE - EB80