

# Shadow Excursion

Shallow Special Operations underwater breathing apparatus



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## INTRODUCTION

Shadow Excursion is used for diving operations beyond the safe depth of oxygen. Shadow/F may also be quickly upgraded to Shadow Excursion using an upgrade package which enables the UBA to perform as a semi-closed circuit nitrox UBA, or as a combined oxygen/nitrox UBA.

Shadow Excursion is a five-minute in-field upgrade that requires no tooling or additional equipment. Nitrox is similarly supplied from either a 200 or 300 bar cylinder via an automatic demand valve and manual bypass facility.

Shadow Excursion has excellent breathing performance augmented by the use of external counterlungs, which are positioned on the diver's upper chest providing a streamlined swimming configuration and comfortable breathing in all diver positions.

Shadow Excursion may be used with a bite mouthpiece or an optional full facemask.

## DIVER THROUGH WATER COMMS

All Shadow UBA have been designed to be immediately interfaced with the JFD Digicom Diver Through Water Communications (DTWC) system that enables a diver to diver and/or diver to surface communications up to a maximum range of 5000m. The JFD Digicom DTWC system has been designed and built to UK Ministry of Defence requirements and is fully NATO codified.

## OPERATIONAL VERSATILITY

Shadow Excursion is suitable for Special Operations missions to a depth of 24msw. Ideally suited for vehicle-based operations requiring a deep transit followed by shallow, closed-circuit, final approach.

## IMPROVED SAFETY

Familiarity with a single UBA platform enhances diver safety as a result of familiarity of the standard and emergency operating procedures of a single UBA.

## KEY FEATURES



Max depth  
24msw



Hours duration



11kg Weight



Lightweight

## PERFORMANCE

- 24m with Nitrox
- 10 hour maximum dive time
- Air temperature operation -20°C to +40°C
- Sea temperature operation -2°C to +35°C
- Fresh water temperature operation +1°C to +35°C
- 200 or 300 bar cylinders



Weight and dimensions	Shadow Excursion
Height	720mm
Width	430mm
Depth	160mm
Weight	11kg

## CONFIGURATION OPTIONS

Shadow Excursion can be tailored to suit specific mission requirements via the use of the following accessories:

- Transport case
- Full Face Dual Mode Mask
- Bite mouthpiece and half mask
- Buoyancy Compensation Jacket
- Digicom through-water communications
- Dry suit inflation system
- Diver tool and test kit
- Maintenance tool and test kit
- 300 bar 2 litre non-magnetic composite cylinders
- 300 bar 3 litre low magnetic composite cylinders
- Spares package to suit customer requirements

## LOGISTIC ADVANTAGES

The unique multi mission capability of Shadow offers reduced through-life costs and logistical advantages that include:

- A common platform reduces costs associated with training divers to use multiple UBA
- Common spares reduces the spares inventory
- Common documentation/ manuals
- Reduced maintenance
- Fully user serviceable

## INTEGRATED LOGISTICS SUPPORT



Documentation



Training



Equipment safety



Spares and repairs

As a result of the sustained engagement with militaries worldwide, JFD has identified the most effective and sustainable in-service support model which has evolved over many years. This service is managed and delivered by a dedicated defence Integrated Logistics Support (ILS) department, comprised of subject matter experts, and can be fully adapted to individual requirements.

The ILS department has project managers, technical authors, training officers, commodities management and engineering support.

To meet the additional challenges of supporting more complex equipment types, JFD has embedded first line maintenance facilities within defence establishments, with the primary objective of providing immediate technical support to the equipment.

JFD offers through-life support for all equipment up to, and including, full safety case management and associated activities.

JFD is currently under contract with a selection of navies with a full MCM ILS capability by offering exceptionally high rates of equipment availability of purchased kit; 24 hours a day, 365 days of the year.

