User Guide

Vinten



Part No. V4173-0001

www.vinten.com

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Safety

Important information on the safe installation and operation of this product. Read this information before operating the product. For your personal safety, read these instructions. Do not operate the product if you do not understand how to use it safely. Save these instructions for future reference.

Warning Symbols Used in these Instructions

Safety cautions are included in these instructions. These safety instructions must be followed to avoid possible personal injury and avoid possible damage to the product.



WARNING!

Where there is a risk of personal injury or injury to others, comments appear supported by the warning triangle symbol.

Where there is a risk of damage to the product, associated equipment, process or surroundings, comments appear supported by the word '**CAUTION**'.



WARNING symbols on the pedestal

On encountering the warning triangle and open book symbols it is imperative that you consult this operators guide before using this pedestal or attempting any adjustment or repair.

Intended Use

The Osprey Studio S pedestal is designed for use in television studios to support and balance a pan and tilt head, camera and ancillary equipment weighing up to 80 kg (176 lb).

This product is intended for use on an unobstructed and reasonably level surface by television camera operators.

Health and Safety



WARNING! Risk of personal injury or injury to

others. All personnel must be fully trained and adhere to correct manual handling techniques and Health & Safety regulations. It is the responsibility of the local organisation to enforce safe working practices at all times..



WARNING! 85kg / 187 Ib LIFTING ASSISTANCE

REQUIRED. Do not lift this product without the assistance of another person or a lifting hoist capable of safely lifting the product.

Mounting and Installation



WARNING! Before fitting, adjusting, or removing the payload, the elevation column must be lowered to a safe working height and wheel brakes must be applied



WARNING! An abnormal or unbalanced payload can cause the product to become unstable. Strictly adhere to the payload guidelines and mounting instructions presented in this user guide



WARNING! When mounting the payload, sufficient clearance must be provided below the mounting platform to prevent the risk of collisions or trapping injuries when the column is lowered.



WARNING! The product has been designed for mounting a payload consisting of camera support equipment only. Under no circumstances should the product be used for the transportation or support of personnel.



WARNING! Risk of product instability when moving the product with the elevation column fully extended. Reduce the height of the elevation column to a safe lower level before attempting to move the product.



WARNING! The product must only be operated on a smooth and level surface.



WARNING! The product must always be secured (all three wheel brakes applied) when left unattended. Do not leave the product unattended on a sloping surface.



CAUTION! Do not exceed the payload limit for the product of 80 kg (176 lb).



CAUTION! The product must only be operated with a minimum payload of 10 kg (22 lb) to pre-load the column correctly.

Water, Moisture and Dust



WARNING! Protect the product from water, moisture and dust.

Operating Environment



WARNING! The product should not be used outside the operating temperature limits. Refer to the product technical specifications for the operating limits for the product.

Cleaning



CAUTION! Do not use solvent or oil-based cleaners, abrasives or wire brushes. Clean with a dry lint free cloth.

Maintenance



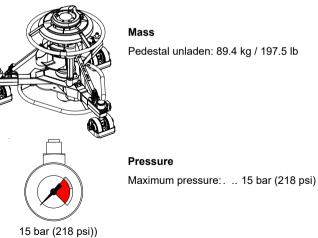
WARNING! The fitting of non-approved parts or accessories, or the carrying out of non-approved alterations or servicing can be dangerous and could affect the safety of the product. It may also invalidate the terms and conditions of the product warranty.

Critical Data



Load

Maximum load: 80 kg / 176 lb



Safety

Usage

The Osprey Studio S pedestal is designed for use in television studios to support and balance a pan and tilt head, camera and ancillary equipment weighing up to 80 kg / 176 lb. This product is intended for use on an unobstructed and reasonably level surface by television camera operators.



WARNING!

Do NOT attempt to use this product if you do not understand how to operate it.

Do NOT use this product for any other purpose than that specified in the Usage statement above.

Maintenance beyond that detailed in this Operators Guide must be performed only by competent personnel in accordance with the procedures.

About this Guide

This operators guide is issued for the Osprey Studio S Pedestal, Part No. V4173-0001.

The guide provides instructions for operation and routine maintenance.

Introduction and Description

The Osprey Studio is a fully functioning studio pedestal for large payloads up to 80kg / 177lb. It is a full studio version of the Osprey elite and is capable of supporting large Vinten Vector heads and the latest range of portable or full facility digital cameras and teleprompters.

It can track talent eyelines from a seated to standing position 'on shot' with its extended fully balanced range. It has an inlet valve for any air source, making Perfect Balance easy to achieve. There is a storage area for the camera operator. In addition, the Osprey Studio pedestal includes a pressure gauge for clear and reliable set-up. It has a single brake and selector for both single wheel and 'all wheel' crab

steering for working in tight spaces and on shot direction changes. It comes with an integral cable guard for studio use.

Key features

Full, 2-stage balance range for total 'on shot' elevation, perfect for moving from seated to standing talent in game shows, entertainment shows, drama and performances

Full crab and steer facilities controlled from a central interchangeable steering ring for enhanced manoeuvrability and on-shot steering

Durable skirted base for ultimate stability

Integral cable guard to prevent cable damage and disturbances to shots

Single action parking brake

Pedestal supplied with Quickfix quick release system & operator storage area



Scan this QR code to access a dedicated page containing important information:

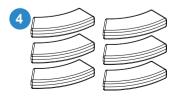
- Safety / educational videos
- Exploded diagrams leading to the Parts Store
- Recycling information and life cycle upgrades
- Warranty information & links to registration / submit case to service team/case management
- User manuals
- · Easy access to service centre
- This QR code is also on the Pedestal for easy reference.

Box Contents

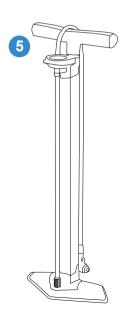
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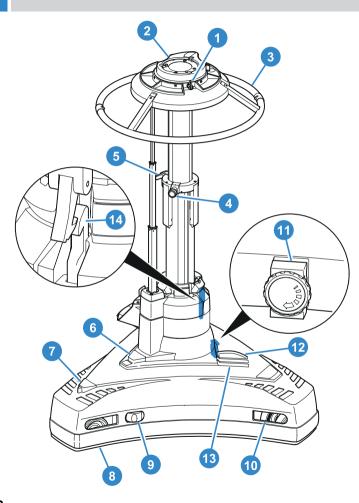
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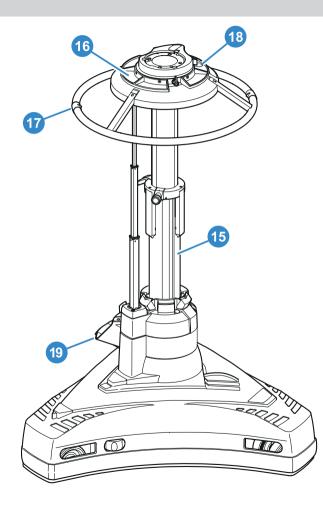


ltem	Description	
1	Osprey Studio S V4173-0001	
2	Quickfix	
3	Accessory holder	
4	Trim weights x 6	
5	Manual Pump	





ltem	Description
1	Schrader valve and cap
2	Four-bolt mounting plate
3	Steering ring
4	Drag control
5	On-shot clamp
6	Crab/steer changeover pedal
7	Wheel brake pedal
8	Cable guard
9	Cable guard thumb-wheel
10	Lifting aperture
11	Cable clamp
12	Trim weight
13	Trim weight stowage
14	Safety catch



Item	Description
15	Moving column
16	Weight tray
17	Steering indicator
18	Pressure gauge
19	Accessory holder

Optional Accessories





ltem	Description	Part No.
1	200mm Hi-Hat	3155-3B
2	150mm Bowl Adaptor	3330-17
3	Mitchell head Adaptor	3055-3B
4	100mm Bowl Adaptor	33016
5	Base Adaptor	08349
6	PTZ and Prompter plate	V4166-1002
7	Steering Ring Large: 25in	3374-17

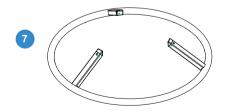
3



5







Unpacking

Unpack the pedestal, ensuring that all transport packing and retaining fixings are removed.!

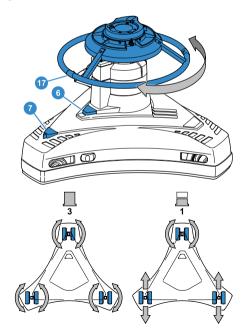


WARNING! The studio s pedestal has a mass of 89.4 kg (197.5 lb). Take care when lifting the pedestal. Do not lift the pedestal by the steering ring - use the lifting apertures. Do not release the safety catch until the payload has been fitted.

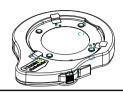
Steering mechanism checks

Align the steering indicator (17) with the brake pedal (7). Press the crab/steer pedal (6) to select CRAB Turn the steering ring and check that all three wheels turn together and all point in the same direction.

Align the steering indicator (17) with the brake pedal (7) and press the crab/steer pedal (6) to select STEER. Turn the steering ring and check that two of the wheels lock in the straight-ahead position and that the third wheel (below the brake pedal) can be turned by the steering ring.



Fitting the Payload



engaged.

WARNING! Fit the camera mounting and payload with the moving column depressed and the safety catch

The pedestal has the standard four-bolt mounting plate which permits the use of various Vinten camera mounts including pan and tilt heads. Quickfix and Mitchell adapters See Optional Accessories on page 8.

Heavy Duty Quickfix Adaptor (supplied)

The heavy duty Quickfix adaptor allows a pan and tilt head with a 'Quickfix' base to be installed on a standard Vinten four-hole mountina.

Installation

1. Install the adaptor on the four-hole mounting The mounting bolts are captive in the pedestal and the bolt heads are accessible from the underside of the mounting plate. When the camera mount has been fitted, the bolts should be tightened securely using a spanner of the correct size. A Vinten spanner, Part No. J551-001, is available for this purpose.



WARNING! Ensure that the screws engage sufficiently for safety, but do not protrude above the adaptor mounting face.

To fit a head

- 1. Push up the red safety latch and unlock the adaptor by pulling the lever fully outwards and to the left.
- **2.** Position the head in the adaptor, ensuring that it seats correctly in the recess and the safety button is depressed.

RED

SAFETY

OCKED

LATCH

SAFETY

BUTTON

3. Lock the head in the adaptor by pushing the lever fully inwards to the right until the red safety latch operates.

To remove a head

UNLOCKED 1. Push up the red safety latch and unlock the adaptor by pulling the lever fully outwards and to the left.



WARNING! This unit contains a spring under tension. Removal of the backplate may cause personal injury.

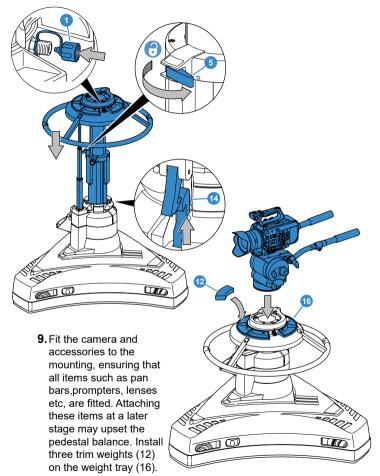
- 1. Fit the pan and tilt head and payload before pressurizing the pedestal. The studio pedestal has the standard four-bolt mounting plate (2) which permits the use of various Vinten camera mounts including pan and tilt heads, Quickfix® and Mitchell adapters.
- 2. The mounting bolts are captive in the pedestal and the bolt heads are accessible from the underside of the mounting plate with the column fully depressed and the safety catch engaged. However, installation of the pan and tilt head is facilitated if the column is extended.



WARNING! A pressurized pedestal will rise rapidly when safety catch is released. Do not lean over the pedestal when releasing the safety catch. Always restrain the pedestal by hand pressure on the steering ring when the safety catch is released

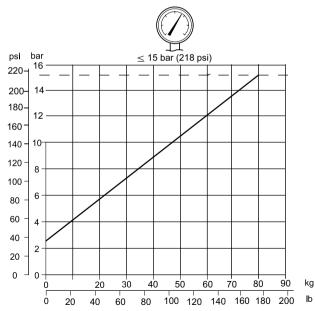
Fit the pan and tilt head and payload as follows:

- **3.** Ensure pedestal pressure does not exceed 3.5 bar (50 psi). Reduce as necessary, using the Schrader valve cap (1)
- **4.** Push down on the steering ring (3) against residual pressure and release the safety catch (14). Allow the column to extend under hand restraint.
- 5. Apply the on-shot clamp (5).
- **6.** Fit the pan and tilt head and tighten the bolts securely using a flat-bladed screwdriver or a spanner of the correct size. A Vinten spanner, Part No. J551-001, is available for this purpose.
- **7.** Set the safety catch slide (14) to ON, release the on-shot clamp (5) and lower the moving
- 8. Lower column under hand restraint until the safety catch engages.



Pressurizing the pedestal

- **1.** The Quartz Two pedestal may be pressurized from an external pressure source or by using a portable pump. Trim weights are provided for fine balance.
- 2. Ascertain the payload to be fitted to the pedestal (payload = pan and tilt head, camera, lens and all ancillary equipment). Referring to the graph, mark the payload on the horizontal axis then strike a vertical line from the load figure to the balance line. At the intersecting point strike a horizontal line to the vertical axis and read off the required pressure.





WARNING! Do not pressurize the pedestal beyond the maximum safe working pressure indicated by the leading edge of the red sector on the gauge. The pedestal is fitted with a pressure relief valve as a safeguard against over-pressurization. Do not attempt to adjust the pressure relief valve. Remove the payload before pumping.



WARNING! This pedestal must be pressurized only with clean, dry air or nitrogen. A pressure reducing valve must be fitted to the pressure line between the as cylinder and the outlet connection of the hose. The reducing valve must be screwed into the gas cylinder outlet. The maximum pressure on the outlet side of the reducing valve must not exceed 15 bar (218 psi)). Do not pressurize the pedestal beyond the maximum safe working pressure indicated by the leading edge of the red sector on the gauge. The pedestal s fitted with a pressure relief valve as a safeguard against over-pressurization.

Do not attempt to adjust the pressure relief valve.



WARNING! A pressurized pedestal will rise rapidly when safety catch is released. Do not release safety catch when pedestal is pressurized and balancing load is not installed. Always restrain the pedestal by hand pressure on the steering ring when the safety catch is released.



WARNING! The column will rise rapidly if released with no payload fitted. Do not lean over the pedestal when releasing the safety catch.

Method	Advantages	Disadvantages
Gas Bottle	FastCan add gas with payload fitted	 Not always available Recommended training needed for working with compressed gas.
Manual Floor Pum	Easy for topping up.Readily availableSelf pump not available for all peds.	 Physically demanding so not recommended for payloads over 60kg. Some pumps cannot achieve max pressure on some models.

Pressurizing the pedestal using a portable pump



WARNING! Do not pressurize the pedestal beyond the maximum safe working pressure indicated by the leading edge of the red sector on the gauge. The pedestal is fitted with a pressure relief valve as a safeguard against over-pressurization. **Do not** attempt to adjust the pressure relief valve.



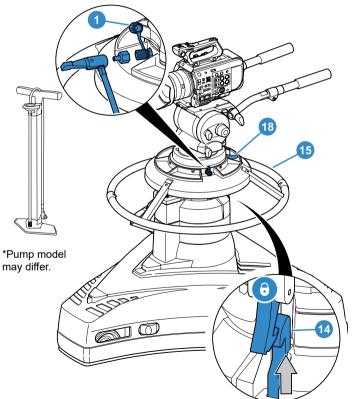
WARNING! A pressurized pedestal will rise rapidly when safety catch is released. **Do not** release safety catch when pedestal is pressurized and balancing load is not installed. Always restrain the pedestal by hand pressure on the steering ring when the safety catch is released.

To pressurize the pedestal using the Vinten portable *pump, proceed as follows:

Attach the intended payload, ensuring that all items such as pan bars, prompters, lenses etc., are fitted.

- **1.** Set the safety catch slide (14) to to LOCK position (I) and using the ring (15) fully depress the moving column until the safety catch engages.
- **2.** Unclip the hose from the pump. Turn the steering ring until the pressure gauge is visible through the window.
- **3.** Screw the valve adaptor to the pedestal charging valve (1).Ensure the pump nozzle is fitted securely onto the adaptor and is firmly locked in position.
- 4. Stand over the pump with both feet on the base treads.

- **5.** Gripping the handle with both hands, and using full steady strokes, pressurize the pedestal to the required pressure. Do not exceed the maximum working pressure, indicated by the leading edge of the red sector on the gauge (18).
- **6.** Disconnect the pump hose and valve adaptor from the pedestal charging valve.



Pressurizing from an external pressure source



WARNING! This pedestal must be pressurized only with clean, dry air or nitrogen. A pressure reducing valve must be fitted to the pressure line between the gas cylinder and the outlet connection of the hose. The reducing valve must be screwed into the gas cylinder outlet. The maximum pressure on the outlet side of the reducing valve must not exceed 15 bar (218 psi)).

Do not pressurize the pedestal beyond the maximum safe working pressure indicated by the leading edge of the red sector on the gauge. The pedestal is fitted with a pressure relief valve as a safeguard against over-pressurization. **Do not** attempt to adjust the pressure relief valve.



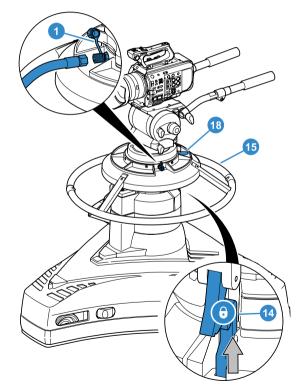
WARNING! A pressurized pedestal will rise rapidly when safety catch is released. **Do not** release safety catch when pedestal is pressurized and balancing load is not installed. Always restrain the pedestal by hand pressure on the steering ring when the safety catch is released.

To pressurize the pedestal from an external pressure source, proceed as follows:

Attach the intended payload, ensuring that all items such as pan bars, prompters, lenses etc., are fitted.

- **1.** Set the safety catch slide (14) to LOCK position (I) and fully depress the moving column until the safety catch engages.
- **2.** Remove the Schrader valve cap (1) and connect the charging line from the pressure source.
- **3.** Turn the steering ring until the pressure gauge is visible through the window.

- **4.** Turn on the pressure supply and slowly increase the pedestal pressure to the required pressure. Do not exceed the maximum working pressure, indicated by the leading edge of the red sector on the gauge (18).
- **5.** Disconnect the charging line, but do not refit the Schrader valve cap at this stage.



Balancing the Payload

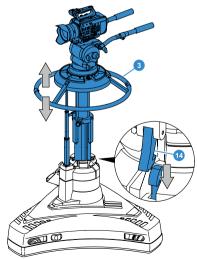
After pressurization of the pedestal, the pan and tilt head and payload can be accurately balanced, as follows:

Push down on the steering ring (3) against residual pressure and release the safety catch (14). Allow the column to extend under hand restraint.

Exercise the moving column over its full travel at least twice, then position the column in the mid-height position.

If the column tends to fall, remove a trim weight (12) or increase pressure.

If the column tends to rise, reduce the pressure in steps of 0.15-0.20 bar (2-3 psi) using the Schrader valve cap (25).





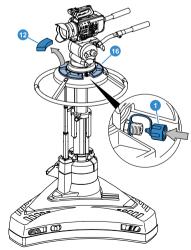
WARNING! Do not reduce pedestal pressure below 3.5 bar (50 psi). This ensures that the elevating mechanism remains in tension.



WARNING! The Schrader valve cap (1) forms a primary pressure seal. Always replace the cap and screw it down finger-tight.

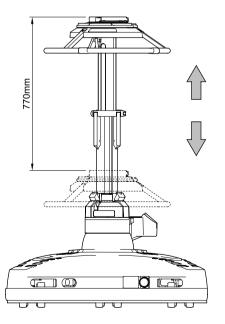
A correctly pressurized pedestal will balance its payload such that it can be moved to any position over the full on-shot stroke of the moving column, with minimum effort, and it will maintain its position when the steering ring is released.

Fine balance and temperature correction may be achieved by adding or removing trim weights (12).



Height adjustment

The column has an on-shot stroke of 770 mm (30 in.) and the load can be moved over this distance, in perfect balance, by raising and lowering the steering ring (3). The movement is adjustable for drag (21) and an on-shot clamp (22) can be used to hold the moving column in position if fixed height operation is required.

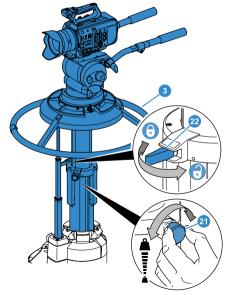


Drag control

Column movement is adjustable for drag and this is set according to operator preference by means of the drag control (21) located at the top of the outer tube. Turn the control clockwise to increase the drag setting, and counter-clockwise to decrease it.

On-shot clamp

An on-shot clamp (22) can be used to hold the moving column in position if fixed height operation is required. Move the clamp lever fully to the left to apply the clamp. Move it fully to the right to release the clamp.



Brakes

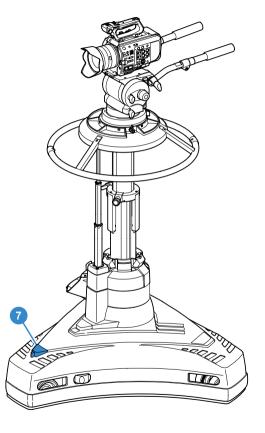
The skid is provided with a parking brake on one wheel. The brake is not designed to slow the pedestal while in motion.



WARNING! Always apply the brakes when the pedestal is left unattended.

Do not apply the brake while the pedestal is in motion

The brake is operated by pressing on the pedal (7) on the base. Press once to apply the brake and again to release it.

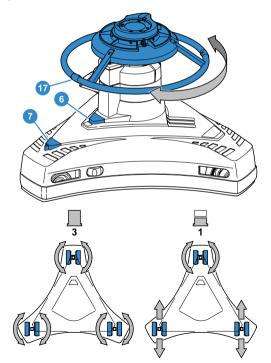


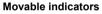
Steering

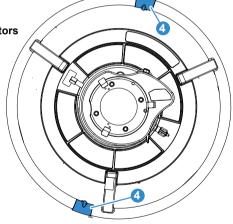
Directional control of the pedestal is achieved by turning the steering ring mounted at the top of the column. The steering system is geared so that the skid wheels turn by the same amount as the steering ring. This ensures, for example, that with the pedestal set to crab, turning the steering ring by 90° will also cause the pedestal to change direction by 90°. The steering ring is fitted with two movable indicators (4) which can be used to mark the straight-ahead position of the ring and will provide a reference point when steering.

Pushing the pedal (6) operates the changeover mechanism which toggles the pedestal between crab (3) and steer (1).

Although the pedal can be pressed with the wheels in any position, the changeover will not occur until the wheels are all facing forward, so the steering ring may have to be turned by up to 180° before the changeover mechanism engages. This arrangement ensures that the fixed wheels will always lock in the straight-ahead position when changing from crab to steer.







The pedestal has a crab/steer arrangement with a foot-operated changeover mechanism, which provides a steer setting - one wheel steering, two fixed; or a crab setting - all three wheels turning together.

Cable Clamp

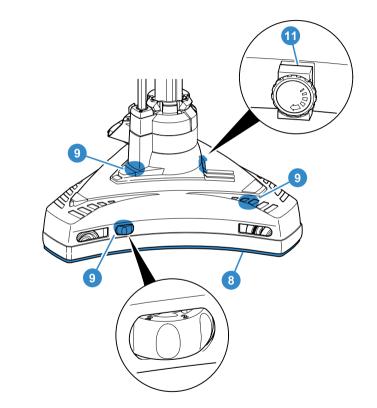
A cable clamp (11) is provided on the base.

Cable guards

The continuous cable guard (8) is height-adjustable by means of three thumb-wheels (9). These have numbers printed on their upper surfaces.

Rotate each thumb-wheel in turn to set the cable guard to the required height, ensuring that each thumb-wheel is set to the same number.

The cable guard incorporates a spring-loaded mechanism to prevent damage if the pedestal is pulled over an obstacle.





WARNING! Local, national or international regulations may apply to the transport and storage of pressurized pedestals, specifically, not to be classed as dangerous goods under IATA regulation UN 1956 - Compressed Gas Shipping. Pressure must be reduced to 2bar (28psi) or less. See Service Bulletin V4002- 4990 for further information and instruction.



WARNING: Ensure the pedestal pressure is increased to a minimum of 3.5 bar (50 psi) before attempting to raise the column. This ensures that the elevating mechanism remains in tension

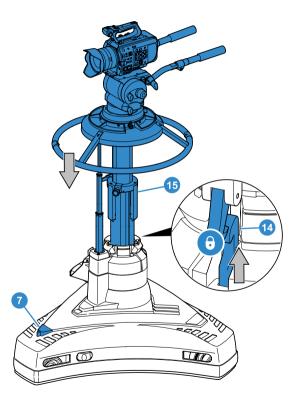
WARNING! Do not reduce pedestal pressure below 3.5 bar (50 psi).



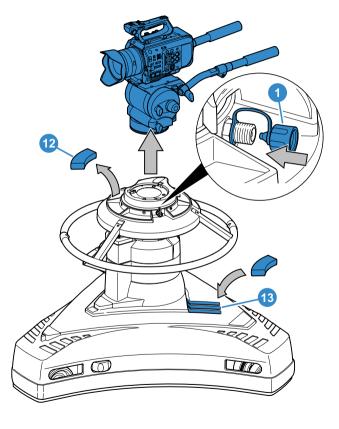
To facilitate removal of the camera and mounting, pressure should be reduced to 3.5 bar (50 psi).

Transportation and storage

- 1. Apply the brakes (7).
- **2.** Set the safety catch slide (14) to LOCK position (I) and fully depress both columns (15) until the safety catch engages.
- 4. Remove the camera and accessories.
- **5.** Using the Schrader valve cap (1), reduce pedestal pressure to 3.5 bar (50 psi).



- **6.** Release the safety catch (14) and allow the column to rise under hand restraint.
- 7. Apply the on-shot clamp (5).
- **8.** Remove the pan and tilt head from the quickfix, see **To remove a** head on page 10 .
- **9.** To avoid the possibility of dust or abrasive particles collecting on moving components, release the on-shot clamp (5), set the column to minimum height and engage the safety catch (14).
- **10.** Place any trim weights (12) in the trim weight stowage (13).



Maintenance

Servicing

General

The Osprey pedestal is robustly made to high engineering standards and little attention is required to maintain serviceability except for regular cleaning. Attention to the following points will ensure a long and useful service life with minimum need for repair.

Cleaning

During normal studio use, the only cleaning required should be a regular wipe over with a lint free cloth. Dirt accumulated during storage or periods of disuse may be removed with a semi stiff brush. Particular attention should be paid to the flats on the top stage of the column.



CAUTION! Do NOT use oil or grease on any exposed part of the column. This is unnecessary and traps dirt which acts as an abrasive.

Use out-of-doors will require special attention, especially in adverse conditions. Salt spray must be washed off with fresh water at the earliest opportunity. Do not allow water to enter the column.

Sand and dirt acts as an abrasive and should be removed with a semi-stiff brush or vacuum cleaner.



NOTE: Use only detergent-based cleaners. Do NOT use solvent- or oil-based cleaners, abrasives or wire brushes to remove accumulations of dirt, as these damage the protective surfaces.

Routine Checks

The Osprey requires minimal routine maintenance, apart from checking the connections and overall operation periodically.

Check the following points during normal use:

- Check for ageing and cracking of the rubber securing straps and renew if necessary.
- · Check the effectiveness of the clamps.
- Check for radial or side play in the moving column.

Adjustments

Adjustments which may become necessary after considerable use are as follows:

- Taking up wear in the skid clamp.
- Elimination of radial and side play on the moving column.

Elimination of radial and side play on the elevation tube or top stage

If excessive radial or side play is apparent on the elevation tube or top stage. Then this adjustment should be carried out by a competent and suitably trained person.

Routine maintenance

At three-yearly intervals, the three steel wire ropes in the column elevation mechanism should be replaced.

This procedure should be carried out by a competent trained person.

Technical Specification

Physical Data



Minimum height 660 mm (26. in.)



Maximum height 1430 mm (56 in.)



Maximum payload 80 kg (176 lb)



Weight 89.4kg (197.5 lb)



Steering Ring Diameter 635 mm (25 in.)



On-shot stroke 770mm (30.3 in.)



Ground clearance 20 mm (0.8 in.)



Transit Width 800 mm (31.5 in.)







Max working pressure ≤ 15 (218psi)



Relief valve pressure

16.5 bar (240 psi)

Environmental Data



Operating temperature range +5°C to +40°C (41°F to +104°F)



Storage temperature range -20°C to +60°C (-4°F to +140°F)

Technical specifications are subject to change without notice.

EU Declaration of Conformity

Videndum Production Solutions Ltd. declares under our sole responsibility, supported by Videndum Production Solutions GmbH - our authorized representative, that the product detailed in this manual conforms with all relevant provisions of the following EU directives:

Machinery Directive 2006/42/EC

A copy of the declaration is available on request.

UK Declaration of Conformity Videndum Production Solutions Ltd. declares under our sole responsibility that the product detailed in this manual conforms with all relevant provisions of the following UK Regulations:

The Supply of Machinery (Safety) Regulations 2008

A copy of the declaration is available on request.



Environmental considerations

European Union Waste of Electrical and Electronic Equipment (WEEE) Directive (2002/96/EC)

This symbol marked on the product or its packaging indicates that this product must not be disposed of with general household waste. In some countries or European Community regions separate collection systems have been set up to handle the recycling of electrical and electronic waste products. By ensuring this product is disposed of correctly, you will help prevent potentially negative consequences for the environment and human health. The recycling of materials helps conserve natural resources.

Visit our website for information on how to safely dispose of this product and its packaging.

In countries outside the EU:

Dispose of this product at a collection point for the recycling of electrical and electronic equipment according to your local government regulations.

Pollution statement

This equipment is designed for operation in Pollution Degree 2 environments.

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