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CB PLUS™

Fluid Head

OPERATOR'S MANUAL

#1052 SkyX 8 Fluid Head



# Features and Controls

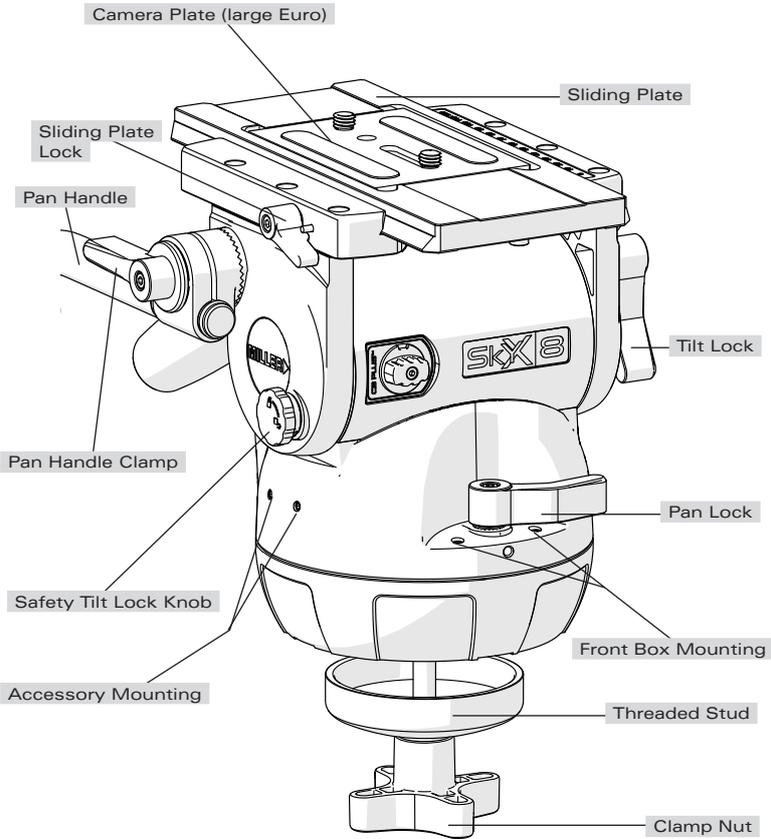


Fig. 1

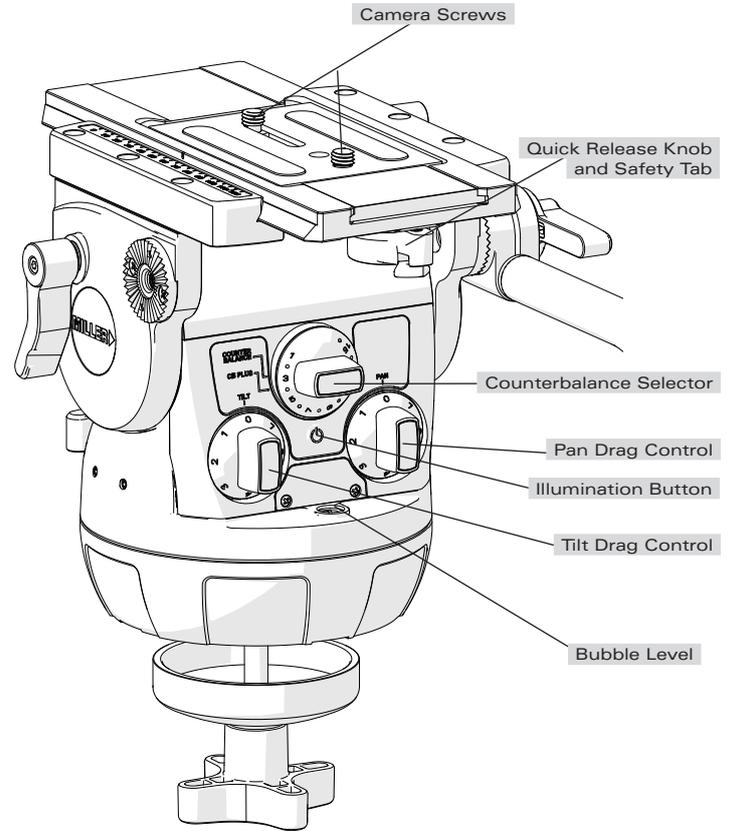


Fig. 2

## Introduction

Thank you for purchasing the SkyX 8 Fluid Head. The SkyX 8 Fluid Head is purpose-built for broadcast professional camera operators who want a new dimension in professional camera support.

The robust design and construction of the SkyX 8 Fluid Head is ideal for broadcasting news and sports productions that support EFP, OB and Studio camera systems.

The SkyX 8 features a quick release front-loading 120mm sliding camera platform. Side and front mounting locations are also provided to accommodate a wide range of accessories such as the view finder and the front box.

The Fluid Drag and Counterbalance system is designed to provide excellent ergonomics and fast control by offering progressive and equal increments of fluid drag and torque to give ultra-soft starts / stops and perfect diagonal drag transition.

The controls are located on a single backlit panel and allow the users a highly functional, fast and repeatable setup of controlling all aspects of the camera motion.

The SkyX 8 will give best performance when used on a Miller Ø150 HD Tripod along with an easy-to-fit 1225 Mitchell Base Adaptor to suit traditional Mitchell flat base tripods.

This will ensure maximum system stability to suit any professional set-up.

## Safety Instructions

Please use this manual to familiarise yourself with the operation of the SkyX 8 Fluid Head and observe these instructions to prevent any damage to your equipment. Ensure that all equipment is operating correctly and free from defects and damage, also please ensure that the tripod is steady, secure and that the bowl is approximately horizontal when attaching the camera. The operator is responsible for the safe operation of this piece of equipment.

- Do not exceed the maximum payload capacity of the Fluid Head.
- Do not leave the camera unattended on the Fluid Head.
- Do not release the SLIDING PLATFORM LOCK whilst the camera is at an angle.
- Do not adjust the tripod whilst the camera is attached to the Fluid Head.
- Ensure PAN HANDLE CLAMP and CLAMP NUT is securely tightened.
- Apply SAFETY TILT LOCK KNOB when adding/removing equipment from the camera or when attaching/removing the camera from the Fluid Head.
- Hold camera securely whilst changing Counterbalance, Pan Drag or Tilt Drag settings.
- Hold the camera securely whilst releasing the RELEASE KNOB.
- Hold camera securely whilst adjusting the CLAMP NUT to level the Fluid Head.

# Operating Instructions

## 1. Attaching Mount Base

Mitchell Base Adapter (1225) (Fig. 3) are available as an optional accessory.

Remove the stud and the **Mitchell Base Adapter** can be attached using 4 off 3/8" x 1" countersunk screws (PN10456) (Fig. 3). This allows you to mount the SkyX 8 to any Mitchell base tripod, pedestal etc. or to any Ø150mm bowl tripod.

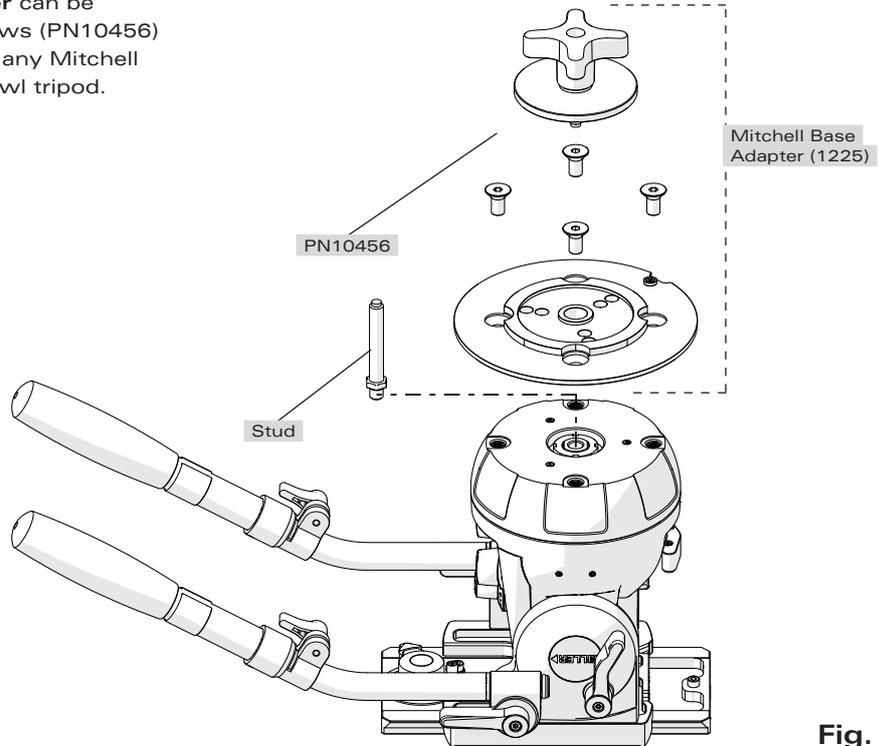


Fig. 3

# Operating Instructions

## 2. Camera Set-up

- 2.1 Remove the CAMERA PLATE by pulling down the SAFETY TAB while rotating the QUICK RELEASE KNOB to the left. The CAMERA PLATE should pop out. (Fig. 4)
- 2.2 Refer to the Camera's owners manual for correct method of attachment to the CAMERA PLATE.
- 2.3 Attach camera accessories and the battery to the camera, it is recommended to estimate the camera's Centre of Gravity (C of G) for the purpose of correctly positioning the camera on the CAMERA PLATE. The camera's C of G can be estimated by placing the camera on to a round rod and then shifting it backwards or forwards until a balance point - C of G - is achieved. It is recommended to identify this point on the camera as it will be useful in step 2.6.
- 2.4 Attach the CAMERA PLATE to the camera and securely tighten the screws.
- 2.5 Align the CAMERA PLATE with the SLIDING PLATFORM and slide it in until the safety mechanism is engaged.
- 2.6 Release the SLIDING PLATFORM LOCK and slide the SLIDING PLATFORM such that the camera's C of G is directly above the centre axis of the Fluid Head and tighten the SLIDING PLATFORM LOCK (Fig.5). If this can not be achieved then reposition the CAMERA PLATE on the Camera - step 2.4. This will ensure that the system has maximum stability.

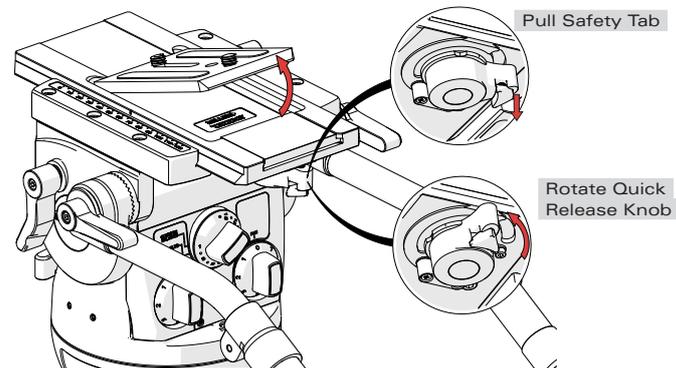


Fig. 4

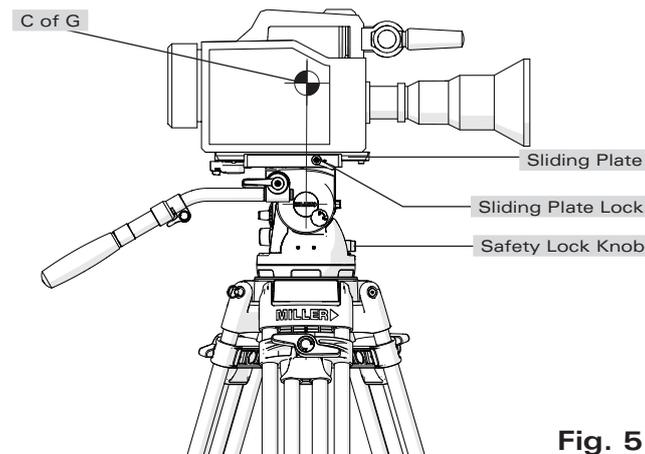


Fig. 5



# Operating Instructions

## 5. Pan / Tilt Drag Control

The SkyX 8 Fluid Head offers 7 selectable positions of fluid drag + zero setting in the Pan and Tilt. The settings are equally stepped from light drag in position 1 up to heavy drag in position 7, the drag plates are completely disengaged in position zero.

- Do not Pan or Tilt the Fluid Head whilst adjusting PAN or TILT DRAG CONTROL or whilst the PAN & TILT DRAG CONTROL is between settings.
- The drag setting can be changed at any tilt or pan angle.

## 6. Pan / Tilt Lock Control

The SkyX 8 Fluid Head offers high capacity caliper disc brake system to hold the Fluid Head in a fixed pan and/or tilt position. Camera position will not change when applying or releasing the Pan / Tilt locks.

- Do not pan or tilt the Fluid Head whilst the PAN or the TILT LOCK is partially applied.

## 7. Illumination

The SkyX 8 Fluid Head offers illumination of the PAN, TILT, DRAG COUNTERBALANCE CONTROLS AND BUBBLE LEVEL when the low ambient light conditions exist. Illumination can be achieved by pressing the ILLUMINATION BUTTON once. The light will switch off after 10 seconds.

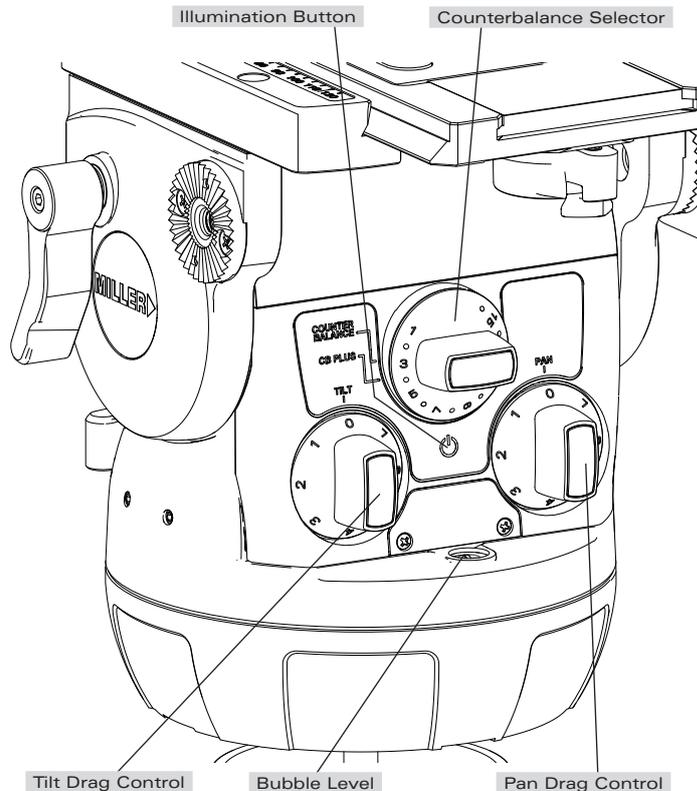


Fig. 7

# Maintenance

The SkyX 8 Fluid Head offers high quality surface coatings. Miller recommends keeping the Fluid Head clean at all times by using soft brushes and lint free cloth to wipe over the surfaces.

- Do not immerse the Fluid Head in any liquid.
- Do not use stiff brushes, abrasives, harsh detergents and solvents.

## Battery Replacement

The SkyX 8 Fluid Head uses a single GP23A type - 12 Volt battery for Illumination. Miller recommends the following batteries to provide long life performance - GP23A, Duracell MN21/23 or Vinnic L1028.

1. Using a Phillips Head #1 screw driver, remove the RETAINING SCREWS and the BATTERY DOOR.
2. Using a small flat screw driver remove the battery.
3. Align the new battery as shown on the back of the BATTERY DOOR and place into the BATTERY HOUSING, then push down the battery into place. A small flat screw driver may be used to push down the battery into the BATTERY HOUSING.
4. Align the BATTERY DOOR into the body then tighten the screws lightly.

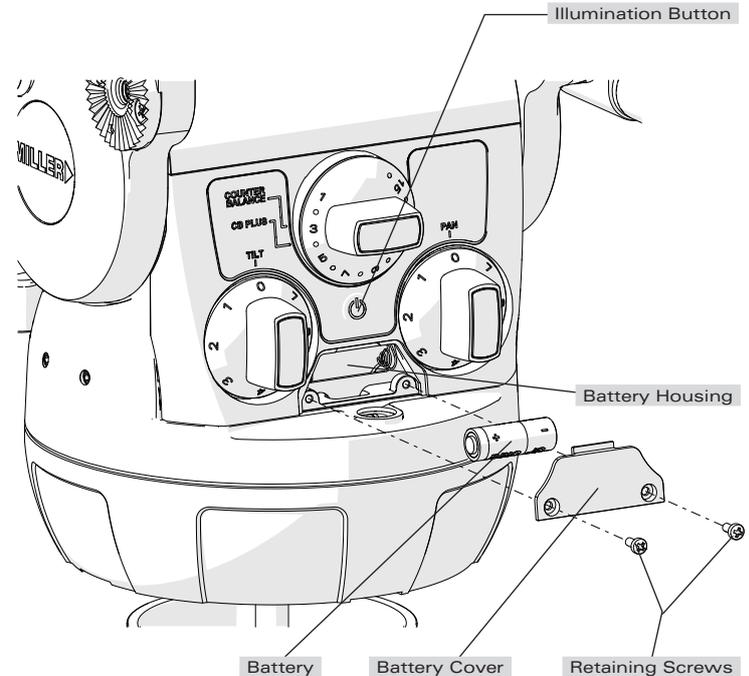
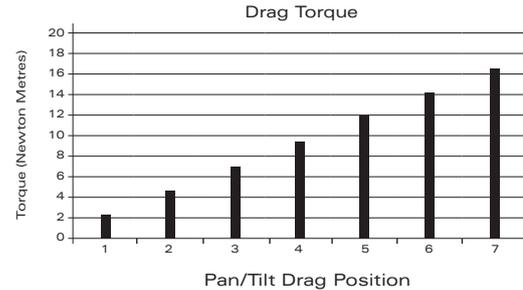
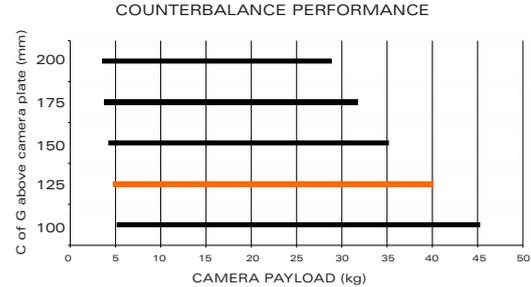


Fig. 8

# Specifications

	SkyX 8
Weight	6 kg (13.2 lbs)
Payload Range	4.5 – 40 kg (9.9 – 88.2 lbs) (COG @ 125mm)
Pan-Tilt Drag	7 Selectable fluid drag positions + 0
Pan-Tilt Lock	Positive lock caliper brake system plus Safety Tilt Lock.
Pan Range	360°
Tilt Range	+ 90° / -75°
Counterbalance System	16 Selectable positions (see performance graph Fig. 9)
Camera Platform	Quick release camera plate (Large Euro) (120mm (4.7") Sliding Range)
Mounting Base	Ø150 mm Claw Ball Level with 4 x 3/8" UNC holes for 1225 Mitchell Base adapter. (Fig. 3)
Handle	2 x HD telescopic pan handles
Temperature Range	-40° C to +65° C
Construction	Lightweight diecast aluminium alloy, moulded reinforced plastics
Sealing	Water & dust resistant
Finish	Matt black (low sheen) durable powder coated with anti-corrosive pre treatment
Warranty	3 Years.



Payload Range in kg and lbs				
C of G (mm)	Min (kg)	Min (lbs)	Max (kg)	Max (lbs)
100	5.4	11.9	45	99.2
125	4.5	9.9	40	88.2
150	4.2	9.3	35.2	77.6
175	3.8	8.4	31.8	70.1
200	3.5	7.7	28.9	63.7

Fig. 9

# Specifications

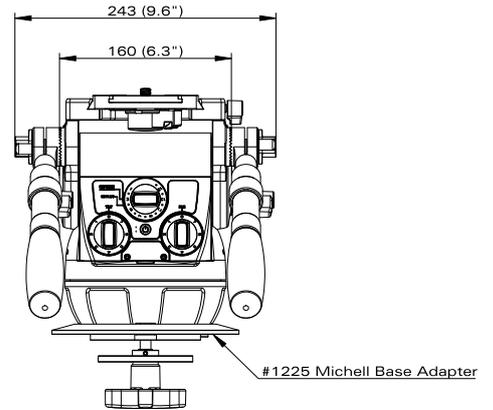
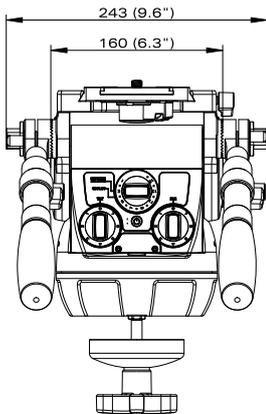
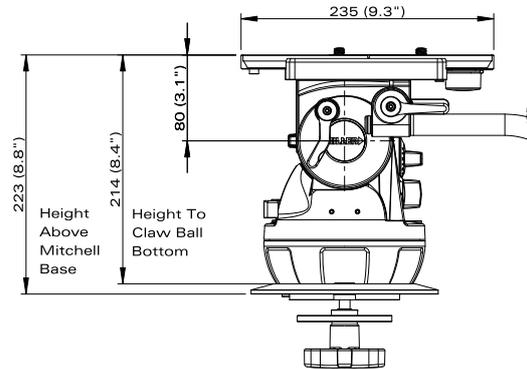
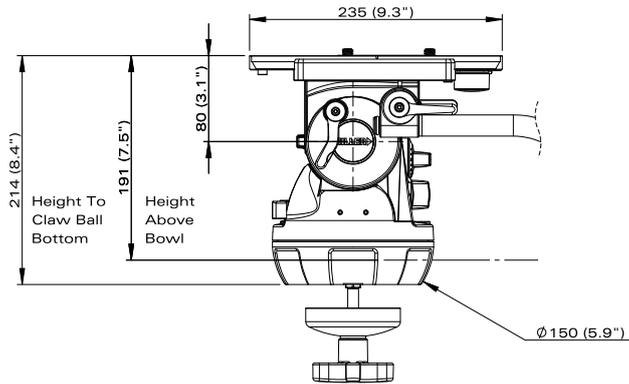


Fig. 10

## Storage

The SkyX 8 Fluid Head can be stored for extended periods; Miller recommends storage in a Miller Soft Case and the following:

- Remove battery.
- Clean the external surfaces.
- Keep in a dry place away from direct sunlight.
- Loosen off PAN & TILT LOCK.

## Spare Parts and Accessories

ITEM	ITEM NO.
Battery 12V	P3798
Camera screw 3/8"	P0037
Small head case alloy	396
HD pan handle telescopic	698
Accessory mounting block	1265
Mitchell base adaptor	1225
Accessory front box adaptor	1223

## Warranty

Please refer to warranty card for complete details.

## Service, Sales and Support

Miller Authorised Service Agents must carry out all service and repair work. Failure to observe this requirement may void warranty.

It is advisable to notify Miller or a Miller Authorised Service Agent if a change of performance is observed as a result of dropping or rough usage. For information regarding sales and service of Miller products or for your nearest Miller representative please contact us via our website or at the following:

MILLER CAMERA SUPPORT EQUIPMENT  
6 Ross Place  
Wetherill Park 2164 NSW, Sydney Australia  
P +61 2 9439 6377  
sales.au@millertripods.com

MILLER Camera Support (LLC) USA  
216 Little Falls Road (Unit 2),  
Cedar Grove, New Jersey 07009 USA  
P +1 (973) 857 8300  
F +1 (973) 857 8188  
sales.us@millertripods.com

MILLER FLUID HEADS (EUROPE) LTD.  
12A, Shepperton Business Park  
Govett Avenue, Shepperton  
Middlesex, TW17 8BA  
United Kingdom  
P +44 (0) 1932 222 888  
sales.eu@millertripods.com

**millertripods.com**

**MILLER** 

**millertripods.com**

**MILLER CAMERA SUPPORT EQUIPMENT**

6 Ross Place  
Wetherill Park 2164 NSW  
Sydney, Australia

Tel: +61 2 9439 6377

Email: [sales.au@millertripods.com](mailto:sales.au@millertripods.com)



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