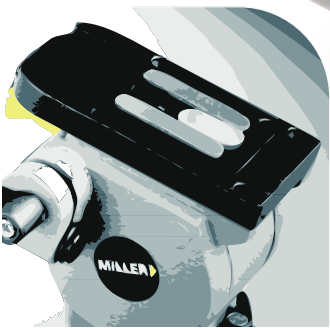


# DS5 Operator's Manual



**MILLER** 

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#180 DS5 Fluid Head

# Introduction

## The DS5 fluid pan and tilt head

Thank you for purchasing the Miller DS5 fluid head for use with professional tripods and portable video camcorders. The DS5 is a true fluid pan and tilt head with professional features including 75mm ball levelling, adjustable drag control, quick release camera plate, bubble level and adjustable/detachable pan handles.

The DS5 is intended for use by professionals in the video production industry, and is therefore built to withstand the rigours of continuous field operation.

## Handle Mounting

The DS5 fluid head is supplied with a single Pan Handle and clamp, fitted to the right side of the head. The DS5 #686 handle is 350mm in length (14") with a 12mm (.5") shaft. A second Pan Handle and Clamp can also be fitted.

## Operating Instructions

Before operating please read the following operating instructions. Do not omit any step. N.B. The safe operation of this piece of professional equipment is the responsibility of the operator.

### 1. Install and Level the Head

- 1.1 Unscrew CLAMP NUT from threaded stud. (See Fig 1)
- 1.2 Place DS5 head in your tripod bowl (75mm) and re-fit CLAMP NUT. Do not tighten CLAMP NUT.
- 1.3 Level the fluid head by centring the bubble in the BUBBLE LEVEL. Then tighten the CLAMP NUT.
- 1.4 **Note:** If adjusting the level with your camera mounted, first ensure the camera is securely held before loosening CLAMP NUT.

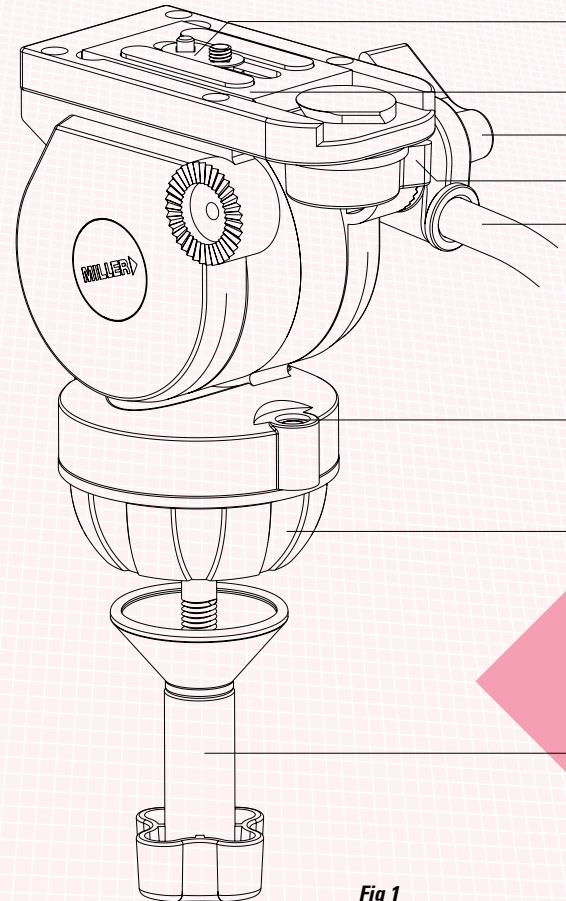


Fig 1

## 2. Mount Your Camera Cleaning

1/4" and pin adaptor carriage

Camera plate

Pan handle clamp

Quick release

Pan handle

Bubble level

75mm claw ball

Clamp nut

The DS5 is equipped with a Quick release plate housing a removable 1/4" & pin carriage. The 1/4" & pin carriage is captive in the plate and is the standard mounting method for palmcorders and lightweight MiniDV camcorders.

2.1 Lock PAN and TILT LOCKS (rotate both levers clockwise until firm).

2.2 Remove CAMERA PLATE from CAMERA PLATFORM by unlocking SLIDE LOCK. The rear of the Camera plate (with captive 1/4" & pin) will flip out of the platform.

2.3 Attach CAMERA PLATE by fastening CAMERA SCREW & locating pin into camera's base. N.B. there is about 20mm of sliding movement on the camera plate to allow for optimum Centre of Gravity (CofG) placement of the camera on the fluid head.

2.5 Attach camera to fluid head by inserting the camera plate (front first) into the space in the platform, then push the camera plate down into the rear to engage the locking mechanism. The camera plate should be securely held in the platform by pushing the yellow locking lever (beneath the platform) until it is tight.

**WARNING: Do not immerse a fluid head in any liquid.**

**WARNING: Do not use stiff brushes, abrasives or solvents.**

The DS10 (DS20) fluid head features protective coatings, dust and moisture seals and anti-corrosive fittings to ensure long and trouble-free operation in harshest of location environments. To ensure optimum performance throughout the life of the head Miller recommends regular cleaning.

When the fluid head has been used in harsh environments (such as sand, mud or salt water spray), wipe over with a soft damp cloth as soon as possible. Use a soft brush to clean crevices. Remove and clean CAMERA PLATE.

### Storage

When storing for extended periods: clean fluid head and store in a safe, dry place, away from direct sunlight. The fluid heads can be stored horizontally or upright. However, it is not advisable to store the head for extended periods with the tilt locked in an extreme position, either forward or backward.

### Maintenance

With the exception of cleaning, the DS10/ DS20 fluid head does not require additional maintenance. Miller recommends periodic servicing by a Miller Authorised Agent. Miller Authorised Service Agents must carry out all service and repair work. Failure to observe this requirement may void warranty.

# Technical Data

# Warranty

## Specifications – DS5 Fluid Head

Description	DS10 (#182)
Weight	1.7kg (3.4lb)
Maximum Load	2.5kg (5lb) approx
Mounting Standard	75mm ball levelling
Pan/Tilt System	True Fluid Drag
Tilt Angle	+90°/-70°
Camera Plate	Sliding Quick Release
Attachment System	1/4" screw & pin carriage
Pan Handle	12mm Vert/Hor. Adjust
Temperature range	-40°/+65°C (-40°/+140°F)

# Spare Parts

ITEM	ITEM NO.
DS5 Camera Plate – with #493 carriage	#487
Camera Carriage 1/4" and pin	#493
Pan Handle to suit DS5	#686
Pan Handle to suit DS 10 w/handle carrier	#679
Pan Handle to suit DS20	#688
Pan Handle Clamp	P3436
Clamp nut	P2321

Miller offers a comprehensive parts and labour warranty with all it's camera support products. For complete details please refer to the warranty card enclosed or contact your nearest Miller sales or service centre.

# Service, Sales & 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 your nearest authorised Miller sales or service centre, please visit our website at [www.millertripods.com](http://www.millertripods.com).

# Website [www.millertripods.com](http://www.millertripods.com)

For information about the complete range of Miller camera support products, or to find the address of your nearest authorised Miller sales centre, please visit our website at [www.millertripods.com](http://www.millertripods.com).

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