

# Video 18 S1

Fluid Head

Fluidkopf



## Manual / Benutzerinformation



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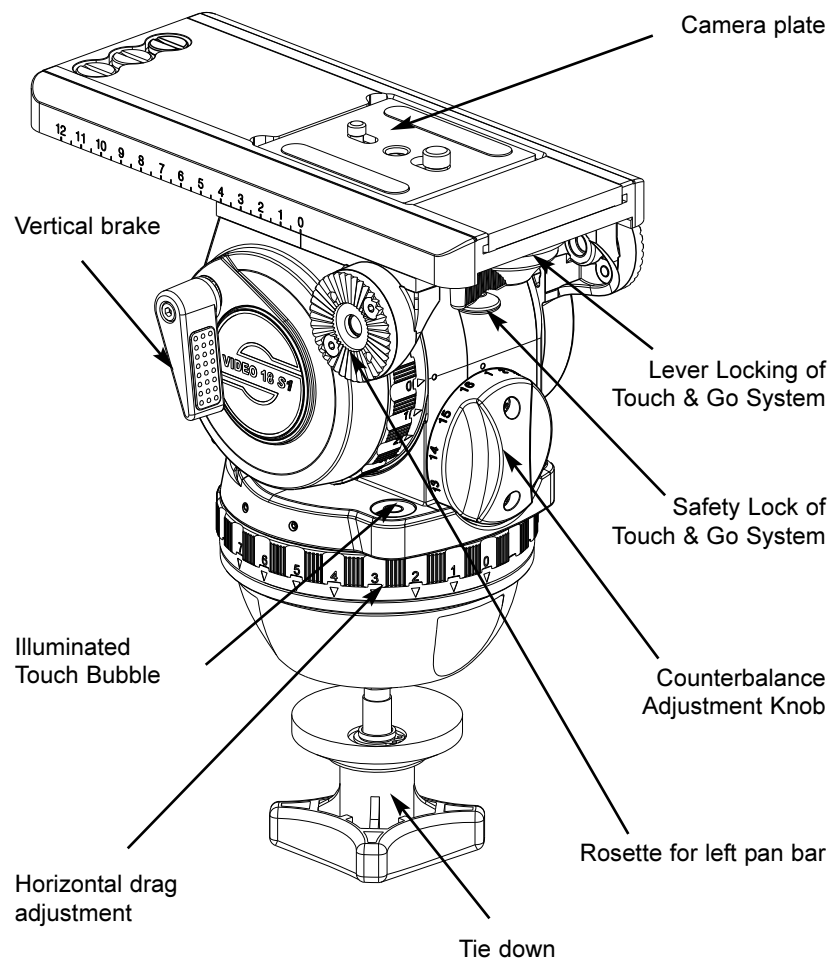
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## 1 Safety instructions / General Information

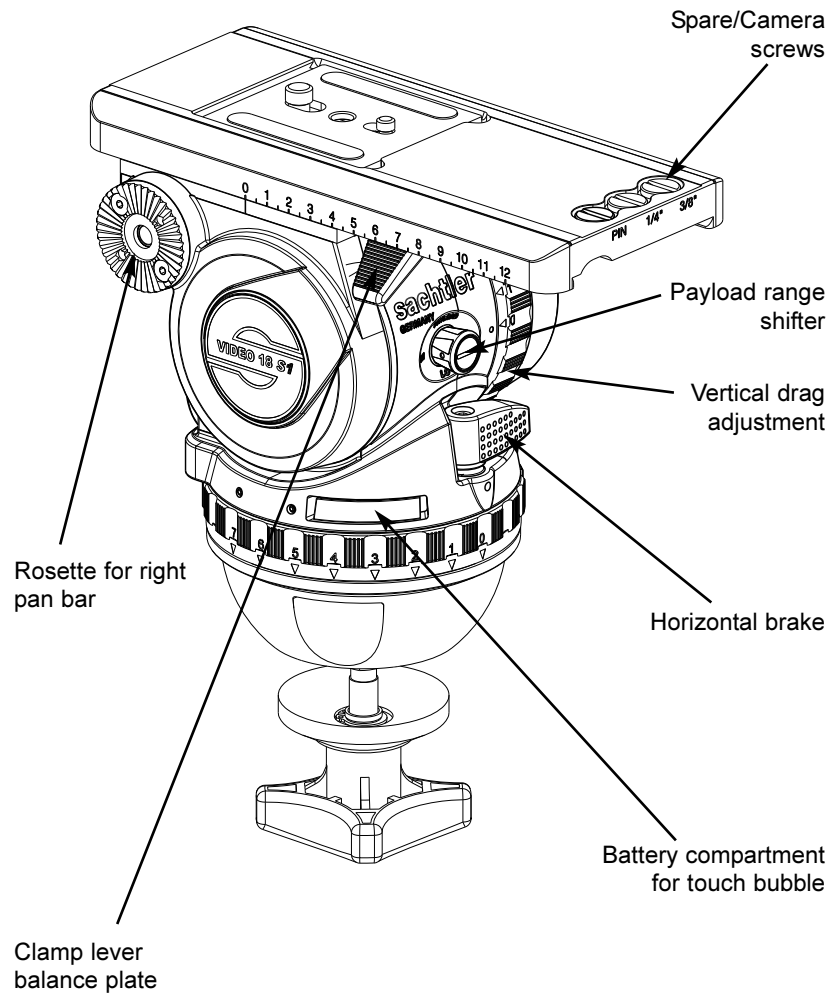
- ⇒ *Before using the fluid head read the manual.*
- ⇒ *Before mounting the fluidhead on the tripod, check if the tripod has a safe standing and if the tripod leg extensions are clamped.*
- ⇒ *Before releasing the tie down on the fluid head (with a mounted camera), the tripod must be secured against fall over.*
- ⇒ *Before releasing the vertical brake (at a non balanced camera set up) or the clamping of the camera-/balance plate the camera must be secured against sudden movement, otherwise there may be a danger of finger trapping.*
- ⇒ *During camera tilt movements with extreme tilt angles there may be a danger of finger trapping between side load plate and housing for users and third persons.*

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## 2 Operating elements



Pic. 1



Pic. 2

### 3 Operation

#### 3.1 Intended Use

This fluidhead was developed to enable pan- and tilt movements of cameras. The maximum payload is specified in chapter 4.

#### 3.2 Moving of the pan bar

Open the clamping lever of the pan bar and move the pan bar into the desired position. Close the clamping screw of the pan bar. While lifting the lever it will be disengaged and can now be placed in a desired angular position.

During transportation the pan bar can be moved next to the tripod legs.

Caution: Open the clamping screw of the pan bar far enough. The teeth of the pan bar clamp should not chatter while moving the pan bar. Make sure that the teeth interleave with each other when closing the clamping lever of the pan bar.

Use of the enclosed pan bar on the left side of the fluid head is also possible. The pan bar has to be removed from the head and the black plastic cap on its top should be opened and removed with a coin or screw driver. The toothed clamp should be removed and relocated. The plastic cap needs to be tightened again.

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### 3.3 Levelling of the fluid head

Apply the vertical brake and hold the camera with one hand. Open the clamping screw of the fluid head and move the head in such a way, that the bubble moves into the level's black circle. Tighten the clamping screw firmly.

#### **Touch Bubble**

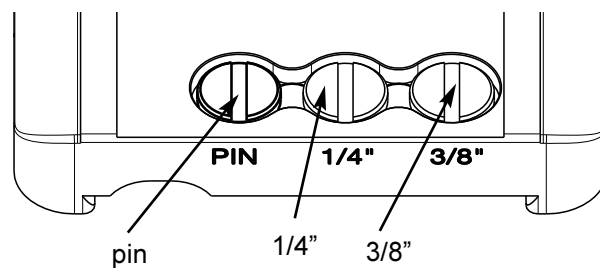
The Video 18 S1 has a self illuminating Touch Bubble which allows easy levelling even under unfavourable lighting conditions. The illumination is activated by strong tapping on the bubble. The bubble will glow up to 20 seconds.

### 3.4 Mounting of the camera and/ or plate

The Video 18 S1 is delivered with the Touch & Go camera quick locking system.

- ⇒ Apply the horizontal and vertical brake.
- ⇒ Hold the camera and/ or plate with one hand.
- ⇒ Grasp the locking lever with your thumb and index finger and pull down the red safety button.
- ⇒ Move the locking lever as far as possible to the left and take out the camera and/ or plate.
- ⇒ Attach the camera plate to the camera or tripod adaptor plate (camera accessory) around the camera's centre of gravity.

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- ⇒ A 3/8" screw and a 1/4" screw are provided in the camera plate as a standard fixing solution.
  - ⇒ If you need to attach your camera either with two 3/8" screws or 1/4" screw and pin, just use the screws located in the parking positions, shown in picture 3.
  - ⇒ The 1/4" screw can be placed everywhere. The pin screw needs to be placed in the whole with the 3/8" thread.



Pic. 3

- ⇒ By mounting the camera and/or plate again it will lock automatically and the locking lever will snap back audible into its initial position.



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### 3.5 Counterbalancing of the camera

- ⇒ Before adjusting the counterbalance of the camera, the center of gravity of the camera must be centered precisely over the axis of the fluid head.
- ⇒ Lock the vertical brake, adjust the vertical setting of the fluid damping to “0”, adjust the knob for the counterbalance setting also to “1” and switch the payload range shifter (Boost Button) on the head’s front side to position “LO”.
- ⇒ Secure the camera with one hand and open the vertical brake.
- ⇒ Should the camera be front or back heavy open the lock of the sliding balance plate (push back red lever underneath the balance plate as far as possible). Keep the camera secured with one hand. Centre the camera weight and compensate for a backheavy setup by sliding the cameraplate forwards and for a frontheavy setup by sliding backwards. The camera should remain in the horizontal position.
- ⇒ Lock the balance plate by pulling the red lever into its initial position.
- ⇒ The fluid head Video 18 S1 is equipped with a sixteen step counterbalance adjustment and payload range shifter on the head’s front side with two positions (High and Low).  
Select the setting which compensates best with your camera set up. Adjusting the lower setting comes immediately effective. The adjustment of the higher setting becomes effective after passing the “0” level while tilting the fluid head.
- ⇒ If you can’t manage to centre the camera, you should move the camera plate to a different position on the tripod mounting adaptor or use the C.O.G plate (# 1063) which is available as an accessory.

### 3.6 Setting of the damping

The Video 18 S1 is equipped with a 7-step damping level horizontally and vertically and a zero setting. By turning the vertical setting and the horizontal setting the desired level of fluid damping is selected. Turn the setting ring to "0" in order to switch off the damping completely.

The different damping levels can only be felt if the horizontal and vertical brakes are open. If you apply damping, the degree of horizontal and vertical damping is identical and thus enables precise diagonal panning movements without jerks and vibrations.

Make sure that you always turn the setting to the next indexed position (arrow pointing on index dot). Engage the retainer pins by slowly panning or tilting the camera.

#### **ATTENTION:**

Panning or tilting the camera with settings between the indexed positions can damage the retainer pins and/or disks.

### 3.7 Brakes

The horizontal brake applies the lock for the pan and the vertical brake for the tilt movement. Both brakes are free off vibrations and can be used during shooting.

### 3.8 Change of the battery

The illumination is powered by one standard type button cell (CR 2032, 3 V) located in the battery holder, which can be opened with a sharp object such as a screwdriver.

Make sure to insert the new batteries according to the "plus" symbol as indicated in the covering plate.

The battery last for about 2000 illumination cycles

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### **3.9 Transport setting of damping, counterbalance and brakes**

To ensure smooth operation of the setting rings for the damping over the long life time period of the fluid head, you should turn both setting rings from position "0" to maximum position, before and after the use of the fluid head.

Setting during transportation: the most important issue is to open both brakes - horizontal and vertical.

Counterbalance and damping should be set to maximum position.

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## 4 Technical Data

Payload range overall:	2 kg to 18 kg (4.4 lb to 40 lb)
Boost Button: LO	2 kg to 15 kg (4.4 lb to 33 lb)
HI	5 kg to 18 kg (11 lb to 40 lb)
Counterbalance steps:	16
Camera sliding range	120 mm (4")
Grades of drag:	horizontally and vertically 7 each and 0
Tilt angle:	+90°/-70° (depending on position of counterbalance knob)
panning range:	360°
Temperature range:	-40°C (-40°F) to 60°C (140°F)
Weight:	3,3 kg (7.3 lb)
Camera fitting:	Touch & Go cameraplate 16 camera attached either with 2 x 3/8" screws or 1 x 3/8" screw, 1 x 1/4" screw or 1 x 1/4" screw, 1 pin
Tripod/Pedestal fitting:	100 mm ball
Pan bar:	telescopic with attachment diameter of 18/22 mm (0.7/0.8"), length 350 to 520 mm (13.8 - 20.5")
Battery:	LR 2032, 3 V

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## 5 Accessories

A C.O.G plate (see chapter 3.5) can be ordered with code no 1063.

An adapter for viewfinder extension is available with code no 3981.

For further accessories please have a look in our catalogue or on our web page [www.sachtler.com](http://www.sachtler.com).

## 6 Inspection & Cleaning

You should clean your fluid head from time to time using a soft clove. For heavier dirt you should use a soft brush and a mild detergent. Regularly inspections are not prescribed.

## 7 Warranty

The warranty expires if

⇨ *the fluid head was operated improperly or not in line with the specified technical data, or*

⇨ *the head housing was opened by unauthorised personnel.*

We reserve the right to make changes based on technical advances.

Please register at [www.sachtler.com](http://www.sachtler.com) for an extended warranty period.