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2-stage tripod
1-stage tripod


## ACCESSORIES \& COMPONENTS

## Cat\# Description

\#480 Studio HD Dolly
\#483 Studio HD Dolly with Cable Guards and Track Lock
\#475 Rubber Feet (set of 3)
\#993 Mid Level Spreader
\#974 Softcase for HD 100 \& HD 150 2-stage
P4816 Transport Clip

## 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 information regarding sales and service of Miller products, or for your nearest Miller representative please contact us via our website or at the following:

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## WARRANTY

Please refer to warranty card for complete details

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## INTRODUCTION

Thank you for purchasing the HD Tripod. The HD Tripod has been designed to suit payload capacities from ENG up to full configuration EFP cameras. The HD Tripod is available with either a $\varnothing 100 \mathrm{~mm}$ or $\varnothing 150 \mathrm{~mm}$ bowl and as 1 -Stage, 2 -Stage, Studio or Mini models. The 2-Stage Tripod comes in ultra light high strength o ive excellent stability and durability While many integrated features Mnabl the comer in anodsed alloy Carry Handle ( $\varnothing 100 \mathrm{~mm}$ bowl), Forever-Flat rubber feet and Fine height adjustable Mid-level spreader.
The HD Tripod will give best performance when used with the Arrow Fluid Head range and DS-60 Fluid Head. This will ensure maximum system stability to suit any professional set-up. The HD Tripod will suit most industry standard $\varnothing 100 \mathrm{~mm} \varnothing 150 \mathrm{~mm}$ Fluid Heads as well, please refer to manufacturers' manual for mounting details.

## TECHNICAL DATA

| Cat\# | 925 | 931 | 932 | 937 | 943 | 944 | 935 | 945 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Tube Configuration | 2-Stage | 1 -Stage | Studio | 2 -Stage | 1 -Stage | Studio | Mini | Mini |
| Tube Material | Carbon | Alloy | Alloy | Carbon | Alloy | Alloy | Alloy | Alloy |
| Bowl Dia. mm | 100 | 100 | 100 | 150 | 150 | 150 | 100 | 150 |
| Maximum Load kg (b) | $95(210)$ | $95(210)$ | $95(210)$ | $95(210)$ | $95(210)$ | $95(210)$ | $95(210)$ | $95(210)$ |
| Weight kg (bb) | $4.5(9.9)$ | $5.2(11.5)$ | $4.7(10.4)$ | $4.6(10.2)$ | $5.35(11.8)$ | $4.8(10.6)$ | $4.0(8.8)$ | $4.2(9.3)$ |
| Max Height $m \mathrm{~mm}($ in $)$ | $1590(62.6)$ | $1575(62.0)$ | $1270(50.0)$ | $1615(63.6)$ | $1590(62.6)$ | $1280(50.4)$ | $960(37.8)$ | $970(38.2)$ |
| Min Height $m$ (in) | $480(18.9)$ | $785(30.9)$ | $590(23.2)$ | $510(20.1)$ | $800(31.5)$ | $610(24.0)$ | $350(13.8)$ | $370(14.6)$ |
| Transport Length $m m($ in $)$ | $750(29.5)$ | $930(36.6)$ | $782(30.8)$ | $750(29.5)$ | $940(37.0)$ | $790(31.1)$ | $645(25.4)$ | $650(25.6)$ |

1. Before setting-up the tripod, the Mid Level Spreader must be attached
2. Remove tripod from the Softcase and unclip the Transport Clips.
3. Place the Tripod Feet on level surface (if possible) and release the Quik Lok Upper Lever on each leg.
4. Lift the top of the tripod to a desired height and then apply the Quik Lok Upper Lever on each leg
5. Release the Quik Lok Lower Lever on each leg (2-Stage model), then lift the tripod to a desired height and apply the Quik Lok Lower Lever on each leg.
6. Spread the Tripod Legs apart, check that the Tripod Bowl is approximately level to the ground.
Check that the tripod is secure

## TRIPOD PULL DOWN

1. Remove the camera from the Fluid Head.
2. Retract the spreader arms fully.
3. Hold and lift off the ground by two legs, then bring the legs inwards.
4. While holding the top of the tripod, release the Quik Lok Upper Lever and Quik Lok Lower Lever (2-Stage model) on each leg then lower completely.
5. Apply the Quik Lok Upper Lever and Quik Lok Lower Lever on each leg.
. Attach both Transport Clips and return the tripod to the Softcase

The 2 Transport Clips (Fig.3) are designed to hold the HD tripod's three egs together during transport. Their spring-loaded design means they are easily gripped and detached
for set up, and just as easily snapped back on to the egs for transporting tripod The Transport Clips must be securely attached before ransporting the tripod.


Fig 3.

## CARRY HANDLE

Miller's 2- part Carry Handle (patented) (Fig 4.) is perfectly ositioned to balance the tripod with the head attached.

NOTE: 1 -Stage \& 2-Stage 100 mm tripod models only.

LEG LOCK ADJUSTMENT
Over time the leg locks may need adjusting to prevent leg slippage.
Adjust the Upper Leg Lock Assembly in a locked position using 13 mm Socket. (Fig 5.)
. Extend the upper stage half way and lock the Upper Lever
2. Turn the Upper Leg lock adjuster clockwise $1 / 8$ th of a turn. Release Sprint Lok Upper Lever and ensure that stage slides freely.
3. When adjusted correctly Leg Lock Lever should only have a small amount of "free play" before locking action commences. If this free play is excessive repeat the steps above.


LEG TO BOWL ADJUSTMENT
he leg to bowl pivot joint on the HD tripod should have no lateral or free play movement and should swing with a firm, smooth resistance. Adjustment is usually not required, however, should it become necessary, the
,
Using a cross head screwdriver, ensure Bracket May movement: both sides of the Leg Top Bracket are tight. Retighten if necessary. Check all legs.
2. Leg pivot or 'swing' adjustment to ensure firm, smooth resistance. Tighten the Leg Pivot Screws on each side of the Leg Top Bracket sing a 4 mm allen key


## SPREADER

Mid Level Spreader (Fig 7.)
The Mid Level Spreader allows the setting of the Tripods footprint and fine height adjustment. The tripod height and overall footprint can be adjusted by turning the Spreader Adjusting knob or by adjusting the length of the telescopic spreader arms.

## Spreader Set-up

1. Turn the Spreader Adjusting Knob counter-clock wise to the open position.
2. Stand the Tripod upright with legs spread out equally
3. Release the Telescopic Clamp on the spreader arm then latch the Quick Release Latch on to the Pivoting Spreader Mount, repeat fo the remaining two arms.
4. Bring each Tripod leg in such that the corresponding Spreader arm is fully retracted then lock the Telescopic Clamp, repeat for each Spreader arm.
5. Bring the Tripod legs towards the centre position, if resistance is felt do not force the Tripod legs, spread out the Tripod legs and make sure that the Spreader arms are fully retracted.

## Spreader Pull Down

1. Remove the Camera and the Fluid Head from the Tripod.
2. Stand the Tripod upright with legs spread out equally and the Mid Level Spreader in the open position.
3. Pull back the Quick Release Latch knob (Fig 8.) and lift the Spreader arms.

## MID LEVEL SPREADER



## SAFETY

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 equipment.

1. Do not exceed the maximum payload capacity of the Tripod
2. Do not leave the camera unattended on the Fluid Head.
3. Do not adjust the tripod Leg locks whilst the camera is attached to the Fluid Head.
4. Do not move the Tripod whilst the camera is attached to the Fluid Head.
5. Do not remove the Mid Level Spreader or Ground Spreader whilst the camera and fluid head is attached.

## MAINTENANCE

Regularly inspect the tripod, paying particular attention to any tube damage, leg lock adjustment, leg top adjustment, condition of the bow rim, spreader mounting points, carry handle and feet

Keep grit and dirt out of Sprint Loks as much as possible, including behind levers. Regularly clean the tripod with a clean damp rag or soff brush. Wipe off all sand, dust and salt spray

Do not clean with solvents, cleaning fluids, lubricants, polishes, abrasives or wire brushes.

Transport and store the tripod in Miller case wherever possible. Store the tripod in a dry place, away from direct sunlight.

