

USERS INSTRUCTIONS

 **9.SOLUTIONS**
MINI C-PAN ARM



DESIGNED AND MADE IN DENMARK

Thanks for purchasing a 9.Solutions product. With great passion, we design our products to be as versatile as possible. We hope that our products contribute to your creative vision.

*Sincerely,
The 9.Solutions Team*

Please read and follow these instructions before use:

Introduction:

The Mini C-Pan Arm is a unique camera guide system that allows you to mechanically move your camera in horizontal, vertical, and diagonal paths. The Mini C-Pan Arm is capable of following curved camera paths as well, and its total movement range is 3.5 times its folded length.

When making a non-curved movement, the arm functions as a traditional, straight track slider. Small adjustments to the arm allow the camera to move in a curved path.

Specifications:

Model number: 9.MCPA1

Max load capacity for horizontal movements: 11 lb / 5 kg

Max load capacity for vertical movements: 6.6 lb / 3 kg

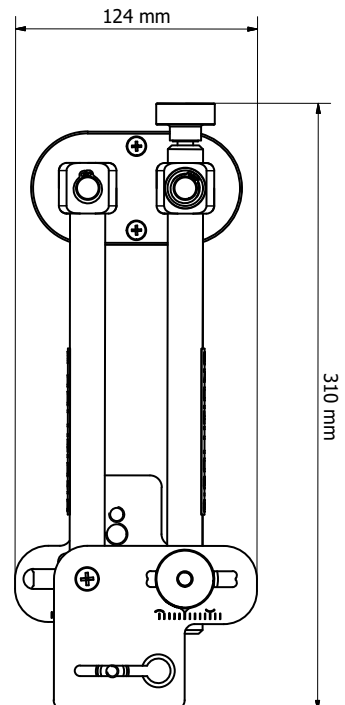
Weight (body): 3.3 lb / 1.5 kg

Pan range (vertical and horizontal): 23.6 in / 60 cm

Minimum curve radius (outward): 23,6 in / 60 cm

Tripod mount: 3/8" -16" and 1/4" -20 female

Camera plate mount: 1/4"-20 and 3/8"-16



This product complies with the CE directives.

Legal:

Liability: The Mini C-Pan Arm should only be operated by someone who has read and fully understands the instructions and applications for use and has adequately reviewed its cautions and limitations. The Mini C-Pan Arm was designed to be used when the system has been appropriately counterbalanced. The Mini C-Pan Arm is not meant to be used with loads for horizontal movement exceeding 11 lbs/5 Kgs and loads for vertical movement exceeding 6,6 lbs/ 3 kgs. Exceeding this weight capacity may trigger malfunction, which may result in Mini C-Pan Arm damage or failure. Personal injury and damage to equipment attached or within close proximity of the Mini C-Pan Arm may also result.

9.Solutions has made every effort to illustrate and describe the products and components in this manual accurately. Illustrations and descriptions including instructions for proper use and application as well as situations and practices to avoid are provided. This is a precision piece of equipment designed for a specific purpose. Though it is a robustly built piece of equipment, mishandling or failure to respect its limitations can cause damage and void its warranty.

Limitation of liability: Limits specified by 9.Solutions must be observed. Exceeding these limits must be avoided under all circumstances. The manufacture will not be held liable for accidents, personal injuries, or any and all equipment damages due to negligence or improper use of the Mini C-Pan Arm. The sequence stated in this manual and by 9.Solutions for use, assembly and disassembly must be observed.

Warranty: 9.Solutions products are warranted against defects for one year from the date of purchase. This warranty provides for the repair (labor and parts) of defective products at no charge. This warranty does not cover transportation costs, nor does it cover a product subjected to misuse or accidental damage. Warranty does not cover corrosion from continued weather or water exposure. Warranty repairs are subject to inspection and evaluation by 9.Solutions.

Service life of the device: The service life is limited by material wear and tear. Service life is therefore dependent on the frequency of use and the environmental conditions to which the Mini C-Pan Arm is exposed.

Features:

- 1. Camera screw
- 2. Camera plate
- 3. Camera screw slot
- 4. Camera screw slot end plug
- 5. Gearbox
- 6. Camera plate curvature adjustment indicator
- 7. Camera plate curvature indication scale
- 8. Base plate curvature adjustment indicator
- 9. Base plate curvature indication scale
- 10. 3/8" -16 tapped hole for counterweight rod attachment
- 11. Base plate 3/8" -16 and 1/4" -20 tapped mounting holes
- 12. Break/ drag control knob
- 13. Optional motor attachment points
- 14. Base plate
- 15. Camera plate curvature adjustment knob
- 16. Base plate curvature adjustment knob



Setup



It is recommended that you mount the Mini C-Pan Arm on a solid tripod. But its also possible to mount it using a clamp or other equipment fitted with 1/4" -20 or 3/8" -16 thread. Insure that the max load capacity of the tripod is not exceeded.

For best stability, spread the legs on the tripod as wide as possible and make sure that all leg and lock knobs are securely tightened.



For vertical movements it is recommended that you mount the Mini C-Pan Arm on a strong three-way head or a 90° tiltable video head and that you use a ball head or other 90° tiltable equipment or head on the camera plate.



If there is a need to use the Mini C-Pan Arm for vertical movements on a tripod, try to position the tripod legs so that there is a free space on the left side of the arm. This will allow it to travel uninterrupted down the side of the tripod.

A tripod with centre column can also be used to give the Mini C-Pan free vertical movements.



The Mini C-Pan Arm can be mounted directly on the 3/8" -16 thread of a tripod or other equipment, but for best stability and ease of frequent attachment and detachment, it is recommended that you use a quick release plate or other quick connecting equipment.



If the Mini C-Pan Arm is to be used for vertical movements, it is necessary to use a quick release plate with a guide pin or additional tightening screws to keep the arm from accidentally rotating on the plate.



For vertical movements or for movements where a counter balance is needed, it is possible to screw a 3/8" -16 threaded rod or pin in the left side hinge in front of the arm and use it to hang weights in the form of dumbbells, sandbags, water jugs or other heavy objects.



To attach a camera or a ball head to the camera plate, slide the camera or ball head along the screw slot and into the desired position. Then, tighten down the camera screw.

If vertical shots are needed, its best to position the ball head to the right side.



The camera screw features a 1/4"-20 thread on one end and 3/8"-16 thread on the opposite end. To change from one to the other, pop out the rubber plug at the end of the slot and turn the camera screw in the direction needed.



For transport, tighten rear knob when it is in a neutral position.

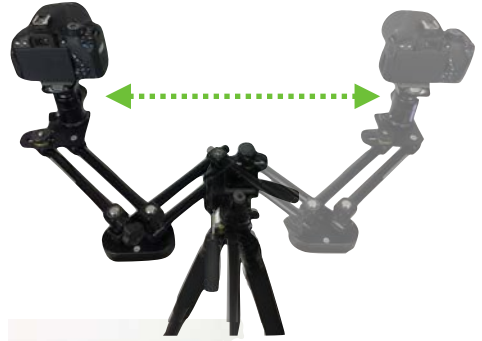
The knob can also be used to create drag during shots or to lock down a certain position.

Straight and curved movements:

(for accurate movements, set both knobs to the same position on the scale).



Set adjustment knobs on both camera and base plate to the mid position for straight movement (indicated by a straight line).



Straight movements



Setting the adjustment knobs at any position towards the outward curved symbol creates an outward curved movement.



Curved movements (outward).



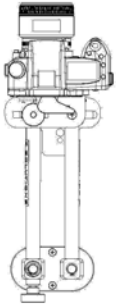
Setting the adjustment knobs at any position towards the inward curved symbol creates an inward curved movement.



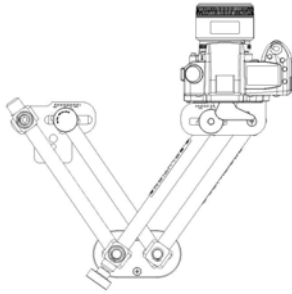
Curved movements (inward)

Set curved movements:

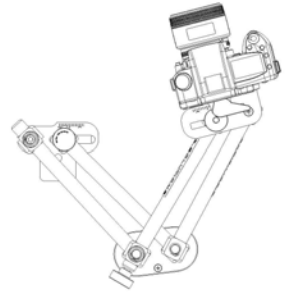
○ Subject



○ Subject



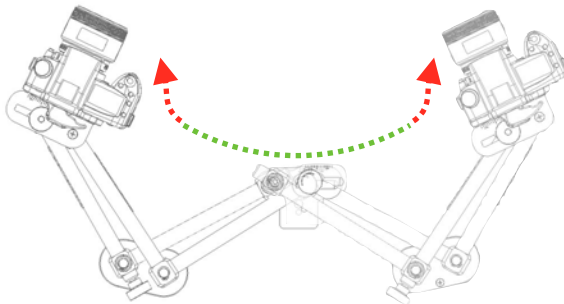
○ Subject



1. Align the camera lens and Mini C-Pan's arms with the subject.

2. Move arm out to one side.

3. Loosen the adjustment handle and slide it to the right. Slide it until the camera lens lines up with the subject again. Tighten adjustment handle.



To maintain the most accurate curve, do not move the arms all the way to the outmost positions. The curvature of the movement becomes parabolic the further it gets to the ends.

When operating the Mini C-Pan Arm, do not jolt the arms back and forth or make it abruptly stop or start. This can damage its gears and lead to increased backlash in the whole mechanism.

Safety cautions:



Always keep fingers clear from the mechanical moving parts. Operate the Mini C-Pan Arm from the outside of any crossing arms.



Do not drag or jolt the Mini C-Pan Arm around when fully loaded with camera and counter weights as doing so could lead to damaged gears or joints.



Do not move a fully loaded Mini C-Pan Arm by lifting or pulling in the arms.

The Mini C-Pan Arm should only be moved by its pedestal. It is also recommended that you move it without any counter weight or payload on it.

Cleaning:



If the Mini C-Pan Arm is used in environments where dust or sand is present, joints and moving parts should be cleaned of any debris using compressed air and a moist cloth.



The joints and the gear mechanism is dry running.

Do not use any lubricants on any of the moving parts.

Using lubricants will cause dust and sand to accumulate which can damage the mechanisms.

Do not use any lubricants like grease or oils on any of the joints or moving parts.



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