



S-TYPE DOLLY

USER MANUAL



■ INTRODUCTION

Congratulations to your decision of purchasing or renting your Panther S-Type Dolly. We are pleased that you made your decision in favor of equipment, which combines state-of-the-art technology and many years of experience in manufacturing camera support equipment.

Selected materials and a great know-how ensures that in practice you have a wide variety of possibilities, which you will appreciate during shooting. Your new Panther S-Type Dolly is a high-quality and modern equipment giving the creative cameraman a new easy way to control your movements and get more flexibility.

The Panther S-Type Dolly is a very useful Dolly, developed by specialists for specialists in order to meet the expectations of every cameraman or grip.

To ensure that you will love working with your Panther S-Type Dolly and that all requirements during shooting can be fulfilled considering utmost safety and reliability, please carefully read this user manual.

With our best wishes



Andreas Fitz

CEO | Executive President
Panther GmbH

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■ TECHNICAL DATA



Length (Dolly)	96,5 cm / 38"
Width (Dolly)	64,5 cm / 25,4"
Height (Dolly)	39,5 cm / 15,55" (front) 48 cm / 18,9" (rear)
Center Distance (Scissors-Arm)	37 cm / 14,6"
Standard Lift range (Low-Mode)	103 cm / 40,6"
max. Lift range (Super Low-Mode)	146 cm / 57,5"
Transport weight (Dolly without wheels)	104 kg / 229 lbs
Transport weight (Scissors-Arm)	64 kg / 141 lbs
Track Width	62 cm (wide) 48 cm (narrow)
Ground Clearance	21cm / 8,3"
Payload (Dolly)	800 kg / 1764 lbs
Payload (Scissors-Arm)	100 kg / 220 lbs
Battery	2 x 24V

■ BASIC KNOWLEDGE

Electro-Mechanical Dolly

The Panther S-Type Dolly is a completely electro-mechanical dolly. That means there is no dripping oil, no pumping up etc. Do not operate underwater or in very wet / humid environments.



Only one integrated tool

We designed the S-Type Dolly to be used almost tool-free in order to ensure a fast and easy operating. If there is a tool needed it is always the same: only one Allen Key (8) which has its parking position directly on top of the dolly. This gives you, the operator, the possibility to work fast and easy, without losing time for searching the right tool.

In fact: whenever you need a tool, it is the one that you can see on the right picture.



Even by laying the dolly sideways, there is nothing to worry about. The S-type has been designed to be as flexible as possible to make your work on set great!

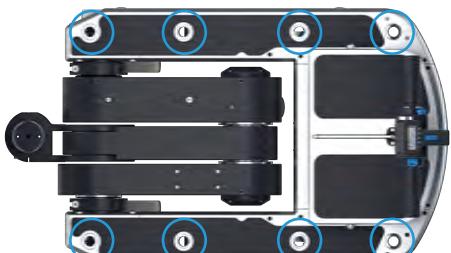


PREPARING SEAT & SEATARM

Seat & Seatarm

The seat arm can be mounted in 8 different positions. Please check the picture on the right.

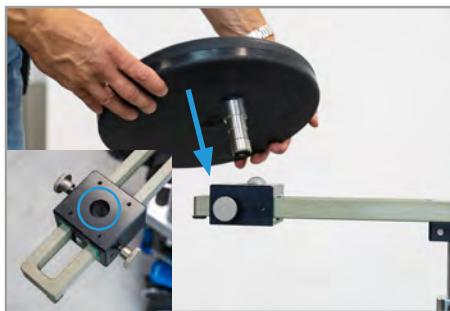
Of course, you can also take a second seat arm and use two at the same time.



Top View



Mounting the seat arm is done by easy plug & play. Just plug it into the desired position.



Now you can mount the Eccentric Panther Seat right into the seat arm.

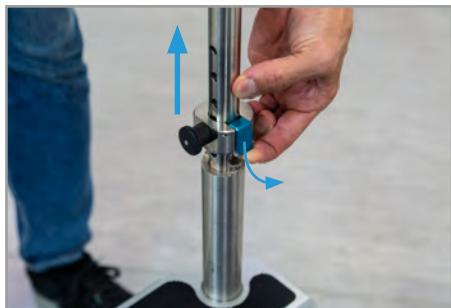
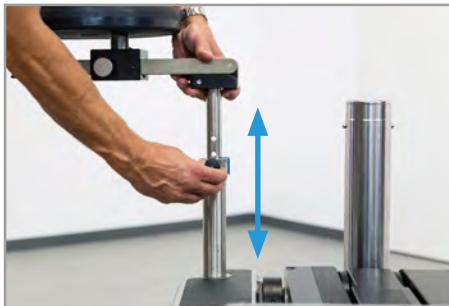
 You may have to fasten the Seat Arm to prevent unintentionally wiggling by using the integrated Allen Key and tighten the screws on the side of the dolly (depending on where you positioned the Seat Arm).



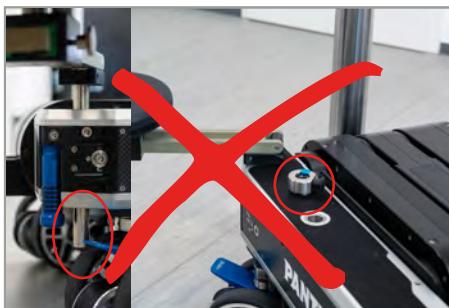
PREPARING SEAT & SEATARM

Height Adjustment

The height of the seat arm can be adjusted tool free. Pull the black knob on the seat arm tube and adjust the height. Push back the black button to fix the position.



If you want to be very low, you can remove the seat arm tube by unlocking it with the blue lever and removing the tube.



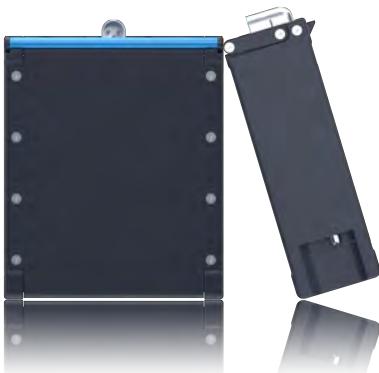
Now plug back the seat arm (without the outer tube). Even now you can still readjust the height of the arm.

Don't use the seat arm without the blocker (with the black knob & blue lever). Otherwise you would damage the dolly wheels.

PREPARING POWER SUPPLY

Dolly Batteries

The S-Type Dolly is a fully electro-mechanical dolly. You need 2 batteries to operate the S-Type. Each pair of batteries lasts for one shooting day. We recommend you to reload it after every shooting day, even if they are still not empty.



Charging via 230V Charger

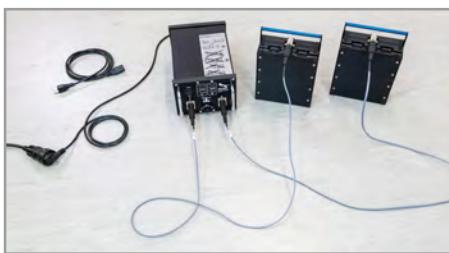
To charge a single battery we offer 230V Charger (155559). Plug in one end into a wall socket and the other end into the battery's cable connection slot. The Charger should now begin to blink. If your battery is fully charged, the blinking light should change into a continuously light.



Charging via Combi Charger

To charge 2 batteries simultaneously we offer a Combi Charger (155729). Plug in one end into a wall socket and connect the two 1-Way Charge Cables (134643) - each for one battery.

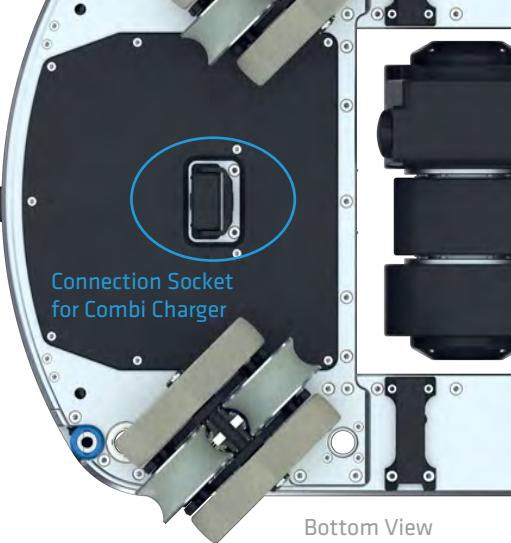
Now turn on the Combi Charger. The LEDs will show you, when the batteries are fully charged.



PREPARING POWER SUPPLY

Combi Charger as Power Source

The Combi Charger has one additional feature: you can use it to power the S-Type Dolly directly via cable connection. You find the connection socket at the bottom side of the dolly.



Bottom View



Open the protection cover of the connection socket and plug in the Power Cable (155210).

Plug in the other end of the cable right into the Combi Charger.

Now you can turn on the Combi Charger and operate the dolly.



Batteries must be plugged in!

The Combi Charger only works, if you have plugged in the batteries into the dolly. While operation via cable, the batteries are charged.

PREPARING POWER SUPPLY

Charging the Wireless Handset

The Wireless Handset can be charged in two different ways: regularly via mains power or by cable connection to the dolly.



Regular Charging

To charge the Wireless Handset you can use the standard charging cable (310848) and plug it into a wall socket.

The display will show „CHG“ instead of the remaining capacity.

Charging via Dolly connection

Despite charging the Wireless Handset on the wall socket you can connect it directly to your dolly. Everytime you have a wired connection from the handset to the dolly, the handset will be charged.



Attention

Please note, that if your Wireless Handset is connected to the S-Type via cable the power will be taken from the dolly batteries, which decreases the battery capacity of your dolly.

■ INITIAL OPERATION

Step 1:

Connect the Panther S-Type Dolly batteries as described in „Power Supply“.



The Panther S-Type Dolly may only be operated with the original Panther batteries. Although the batteries left our warehouse fully charged, it is possible that a long transit time/low temperatures caused the batteries to empty. Please check this before operation. Fully charge the batteries before first use.

Step 2:

The Panther S-Type's (and accessories) complete lift, panning and movement range must be cleared before switching on the dolly.

Step 3:

Connect the Wireless Handset via cable to the dolly.



Step 4:

Switch the dolly on at the red main switch. Then turn on the „On/Off“ button at the Wireless Handset.



WIRELESS HANDSET

GENERAL



FRONT VIEW



BACK VIEW

Display

The Display shows all current settings and allows to adjust everything with a easy user interface. It has an integrated backlight for dark environments.

Buttons

Turn On / Off the handset by pressing the Main Menu / Power button for a few seconds. It is also used to navigate through the menu.

Rocker

Move the scissors-arm up or down with the handset rocker.

Charging / Connection Socket

Connect the Handset via cable to synchronize with the dolly and to charge the internal battery.

Latching Disc

The locking plate attaches the handset control to a fluid head or to the dolly's body.

WIRELESS HANDSET

GENERAL

Water resistance

The Panther Wireless Handset is precision-engineered to resist water and dust.

Degree of protection: IP67

IP67

(water protection)

Protection against ingress of water
in case of temporary immersion
(up to 1m/39,4" - 30 minutes)

(foreign bodies protection)

Total protection against contact, protection
against penetration of dust.

To ensure this high resistance there is no possibility of a removable battery. The handsets' battery is totally integrated in this device. If you have problems with your battery please contact our service department (contact details can be found on the last page).
The wireless handset may not be opened by yourself. Consider that the wireless handset was not made to operate underwater. The water resistance is only to protect your device.

Frequency band

The Panther Wireless Handset sends on a frequency of 2,4 GHz (ISM band).

Distance

The maximum reach of the Panther Wireless Handset is up to 50m / 164 ft. - this value always depends on your current location (many walls or no walls, forest or field etc.).

Signal interference may occur in certain areas where many signals are present.



Attention

Please check that you always have direct sight to your dolly during the complete time of operation! Using this mobile device without visual contact is at your own risk.

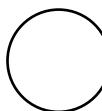
WIRELESS HANDSET CONNECT



No Connection:

If the wireless handset is not able to connect with your dolly you will see the screen left.

You can check this situation by the crossed wireless icon.



Connected:

If your wireless handset is connected, but the dolly is turned off, you will see this „O“ symbol.

Now you can turn on your dolly. This is done by pressing **ON**

By pressing the **LIM** button the dolly will get into LIMIT-Mode (which allows you to program limits & drive the arm manually).

By pressing the **PRG** button the dolly will get into PROGRAM-Mode (to program sequences of movements).

„Level“ and on the right side of the display it will show a „?“ which means the dolly does not know its arm level / position. This happens if the S-Type is without power (e. g. changing batteries). To let the handset know where the arm is you have to activate the LIMIT-Mode and drive the arm manually up to its highest position.

WIRELESS HANDSET MANUAL DRIVE



How to drive the arm manually

To drive the S-Type Scissors-Arm manually you have to be in LIMIT-Mode (which is the „standard“-mode of the dolly).



Attention

Make sure that „Arm“ is set to „low“ (as shown in the picture). If it is set to „super-low“ please reset it to „low“ (check page 25). If „super-low“ is required, please operate very carefully, because it will run over it's ground level position.

The Wireless Handset comes with a blue high sensitive rocker. Depending on how hard you are pressing upwards / downwards the speed of the Arm increases or decreases.



Side View



Press the rocker upwards to drive the Scissors-Arm up.



Press the rocker downwards to drive the Scissors-Arm down.

WIRELESS HANDSET

SPEED / RAMPS ADJUSTMENT

Speed adjustment:

You can see the current speed settings in the red marked area (right).

In this case the speed is set to level „4“ (maximum speed). You can choose between speed 1-4:

speed 1: 0...25%

speed 2: 0...50%

speed 3: 0...75%

speed 4: 0...100% (maximum speed)

To adjust the speed level you have to **press and hold** the **SPD** button and simultaneously **tap** on the rocker (up for more speed - and down for less speed).



Ramps adjustment:

You can see the current ramps settings in the red marked area (right).

In this case the ramps are set to level „hard“. You can choose between 3 different ramp settings:

soft ramps: acceleration very soft, hardly perceivable

medium ramps: characteristic between soft and hard

hard ramps: strong acceleration to maximum speed, strong deceleration until stopping



To adjust the ramps you have to **press and hold** the **RPS** button and simultaneously **tap** on the rocker (up for softer - and down for harder ramp).

WIRELESS HANDSET

SET LIMITS

Setting a limit:

To set an upper limit to your dolly column you have to **press and hold** the **LIM** button and simultaneously **double tap** on the rocker (up - see right picture below).

To set an lower limit to your dolly column you have to **press and hold** the **LIM** button and simultaneously **double tap** on the rocker (down - see left picture below).

To deactivate a stored limit you have to press and hold the **LIM** button and simultaneously tap one time on the rocker (up to deactivate the upper limit and down to deactivate the lower limit).

To reactivate a previously stored limit you have to press and hold the **LIM** button and simultaneously tap one time on the rocker (up to deactivate the upper limit and down to deactivate the lower limit).

To overwrite an existing limit please follow the first instructions how to set an upper & lower limit above.



LIMIT-Mode required

All steps are only working if you have set your wireless handset to LIMIT-Mode.

WIRELESS HANDSET

PROGRAM MOVEMENTS

Enter the Program Mode

To program movements you first have to go into the PROGRAM-Mode.

To do so you first have to exit the standard LIMIT-Mode by pressing the **RET** (return) button to go back to the Homescreen.

Now press the **PRG** button. The Display now shows „Recallmode“. Here you can recall previously programmed movements.

To program new movements, please press the **PRG** button again.

Now you are in the PROGRAM-Mode.



WIRELESS HANDSET PROGRAM MOVEMENTS



How to program:

If you want to program your dolly you have to make sure that you are in „PROGRAM-Mode“.

Start to drive the S-Type Scissors-Arm manually to your desired starting position by using the handsets' rocker.

If the Scissors-Arm is at this position you have to press the **STF** button (**STore First Flag**). Now the starting point is stored.

Now you can drive your Scissors-Arm manually to the next desired point by using the handsets' rocker.



The Panther electronics will memorize only the highest speed used to reach this point manually, and will repeat the move at this speed throughout. If you wish to program a slower movement, you must drive slowly to the stopping point.

You may drive up or down to any stopping point until it is entered. Enter the point by pressing the **STM** button (**STore Movement**).



Stopping point will only be recorded when the Scissors-Arm is completely stationary. To be quite sure of correct entry of any point, always wait a moment before pressing **STM** button.

You can repeat this process as often as you need it (up to 255 points can be programmed). With **RET** button you will get back to the „Recallmode“ where you can start moving what you have programmed.

WIRELESS HANDSET PROGRAM MOVEMENTS

How to recall your stored program:

When you are back in the Recallmode you can recall your stored program.

Before recalling or resetting the program in sequence, move to the starting point by pressing the **GRF** button (Go to Reference Flag). The Scissors-Arm automatically returns to this point at the maximum speed chosen with the speed selector.

To recall the program, press the **A** button (Action) for every movement in chronological order.



To get back to the PROGRAM-Mode you have to press the **PRG** button. With **RET** button you will get back to the main screen.

WIRELESS HANDSET

FURTHER SETTINGS



Screen brightness

To get into the screen brightness settings you have to press the **M** button in the Homescreen area.

By pressing the **+** button you can make the screen brighter.

By pressing the **-** button you can make the screen darker and also turn off the backlight.



By operating with lower or even turned off backlight the battery will last considerably longer than with a bright backlight (min. factor 10).



Channel choice

To get into the channel choice settings you have to press the **M** button in the homescreen area until you see the left screen.

By pressing the **+** button you can choose a higher channel number.

By pressing the **-** button you can choose a lower channel number.

General information about channels

You can choose between a total of 15 channels. If you have a bad connection you should change the channel.

If you have changed the channel on your wireless handset you have to plug in the wireless handsets' cable one time to synchronize the channel on your dolly. Additionally to that update there will occur

a pairing. During this pairing the handset communicates a key to the dolly. In this way you can pair different dollies with different channels on your handset. So you can easily change between different paired dollies just by switching between the different channels.

WIRELESS HANDSET SERVICE MENU

How to enter Service Menu:

To get into the screen brightness settings you have to press the **M** button in the main screen area until you see the right screen and then press the **OK** button.

What you can do in the Service Menu:

In the wireless handsets' Service Menu you can do the following settings:

- Calibrate the handset rocker
- Calibrate the Arm level
- Choose Dolly type
- Super Low Mode

Rocker Calibration

You can check the current rocker status on the right of your screen (see red marked).

To operate correctly this status bar must concur exactly to your handsets' rocker.

If it is not concur you have to calibrate it. This is done by pressing the **GO** button. Then follow the instructions on your handsets' screen.



WIRELESS HANDSET

SERVICE MENU



Level Calibration

To check the scissors-arm level position take a look at the right bar in your screen (red marked).

When do I need to make Level Calibration?

You have to make Level Calibration only if you are not satisfied with the accuracy of the display of your scissor-arm position.

This can happen for example after maintenance of your the arm.

How to make Level Calibration

To actually make a new Level Calibration you have to press the **OK** button. This does a reset of the height position.

Now first you have to drive your height manually with the handsets' rocker to its' minimum height (up to the end switch). After that you have to drive to maximum height (up to the end switch). After that your height Level Calibration is finished.



If the right bar shows “?” then it means that the dolly was not yet driven to the end switches or that the receiver board just learns the height position.

Dolly Type

The Wireless Handset was made not only for the S-Type dolly.

If you want to use it on for example the Classic Plus dolly you can choose that option in the next point of the Service Menu.

By pressing the **+** or the **-** button you can change between different dolly types.



WIRELESS HANDSET

SUPER LOW MODE

Super Low Mode

In order to use the full length of the scissors-arm, we developed the patented fullrange technology. This allows the scissors-arm to move the same way up as down into the negative.

To prevent crashing the floor with the scissors-arm by mistake you have to activate the Super Low Mode in the Service Menu when it is needed.

Attention

If the Super Low Mode is activated, please operate very carefully, because it will run over it's ground level position.

Make sure the way for the Scissors-Arm is completely free and that you don't damage the Scissors-Arm or the floor.

How to activate the Super Low Mode

Before you can activate the Super Low Mode you have to drive the scissors-arm manually all the way up to it's highest position until it hits the end switch.

Now enter the Service Menu and navigate to point „Arm“ by pressing the **M** button several times. By pressing the **ARM** button you can choose now between Low Mode and Super Low Mode.

Exit the Service Menu and go back to the Limitmode. Now you can drive all the way down - even below ground level.



To set the Scissors-Arm back to the standard Low Mode you also have first to drive it manually all the way up to it's highest position until it hits the end switch.

CONTROL PANEL

CONTROL LEDs

Control LEDs:

Red, yellow and green LED will light up for 2 sec. if dolly is switched on.

Power: **yellow LED** will light up when the dolly is turned on

Brake open: **green LED** is blinking if a minimum limit is active. It will light up when the brake is open. It is also blinking if a limit is active and the brake is open. If the dolly is not in operation for longer than 120 seconds, the brake will close automatically and the LED will go out/respectively blinking in another frequency.



Battery empty/error: **red LED** is blinking if a maximum limit is active. It will light up when batteries are empty or in case of an error. The error can be determined by removing the electronics cover and looking at the display on the left side of the electronics housing:

Error determination of Panther Electronic Box:

b : (on) battery empty

d . (blinking) fault at rotary encoder

E . (blinking) fault at end switch

H . (blinking) fault at handset

L . (blinking) current exceeding normal value

WHEELS

CHANGING WHEELS

Dolly Jack

Changing the wheels is done very fast and easy with the Dolly Jack (311199) and the Wheel Changing Tool (100453). It lifts up the S-Type in seconds without needing much power.



Adjust the height of the Dolly Jack depending on the surface where you want to change wheels.



Push the Dolly Jack into one of the holes on the side of the S-Type.



Leverage the S-Type with the Dolly Jack.



The wheels on one side are now free and ready to be changed.

WHEELS

CHANGING WHEELS



Take the Wheel Changing Tool and open the screw on the side of the wheel.



Take out the wheel by pulling.



Attache the new wheel by pushing it into the Wheel Mount axis.



Rescrew it with the Wheel Changing Tool.

WHEELS

BIG WHEELS

Big Wheels

The Big Wheels are designed to bring your dolly easy to your location also on rough terrain. It gives the S-Type more ground clearance as usual.

Mounting the Big Wheels is done very fast and easy with the Dolly Jack (311199) and the Wheel Changing Tool (100453). It lifts up the S-Type in seconds without needing much power.



Attention

To be completely free with the dolly movements you should first put all wheels into the Narrow-Gauge. Otherwise you may have problems in tight curves.



Adjust the height of the Dolly Jack depending on the surface where you want to change wheels.



Push the Dolly Jack into one of the holes on the side of the S-Type.

WHEELS BIG WHEELS



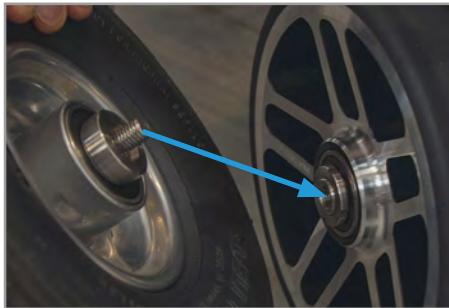
Leverage the S-Type with the Dolly Jack.



The wheels on one side are now free and ready to be changed.



Use the integrated Allen Key to mount the Big Wheels.



Mount it on top of the Studio Wheels (without remounting them).



Do not mount the Big Wheels in standard gauge. Only in narrow gauge.

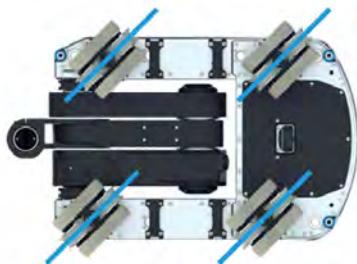


Repeat these steps with the 3 other wheels.

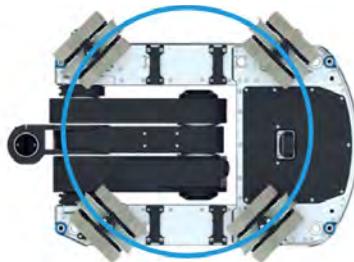
STEERING GENERAL

4 Steering Modes

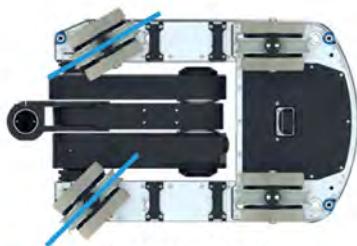
The S-Type Dolly offers 4 different steering modes: Crab, Round, Conventional Front and Conventional Rear.



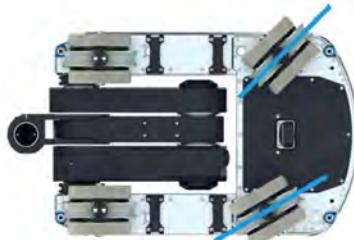
CRAB MODE
(4-Wheel Steering)



ROUND MODE
(4-Wheel Steering)



CONVENTIONAL FRONT
(2-Wheel Steering)



CONVENTIONAL REAR
(2-Wheel Steering)

STEERING CRAB & ROUND

Switching between Crab & Round

To switch from Crab to Round mode (or the other way) please follow these steps:



Press and hold the blue button on the left side of your dolly push rod. Now turn the handle on the right side to CRAB / ROUND (depending on your initial position).



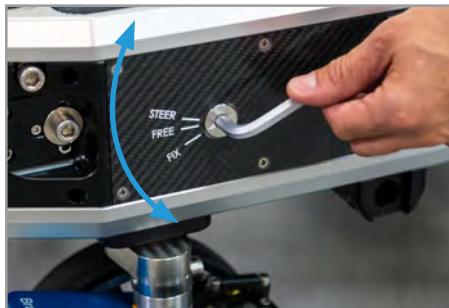
Make sure that your dolly push rod and your wheels are in 100% straight position. Otherwise the switching mechanism will not work, because you can not unlock by pushing the blue button.

STEERING

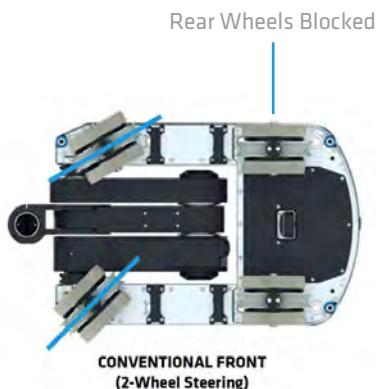
CONVENTIONAL FRONT / REAR

Switching to Conventional Front / Rear

To use a front or a rear wheel steering you first have to go to regular Round Mode. The 2-wheel steering modes are activated by blocking either the front or rear wheels.



Take the integrated Allen Key and block the front or rear wheels by switch the screws on the side of the dolly to „FIX“. Now the wheels will keep their straight position.



STEERING NARROW-GAUGE

Narrow-Gauge

The S-Type wheel arms are eccentric. That means you can easily switch between the standard gauge (62 cm on track) and a narrow gauge (48 cm on track) for passing doors or operate in tight environments.

To do so you only have to turn the Steering Rod 180°:



Standard Track Width
62 cm



Turn the Steering Rod 180°



Narrow Track Width
48 cm

STEERING STEERING ROD

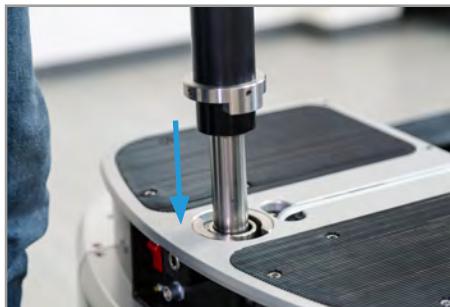
Remove the Steering Rod

The S-Type Steering Rod is removable. If you go for example from Standard Gauge to Narrow Gauge the Steering Rod is turned around into the other direction.



To turn it, you only have to pull it out of the dolly. Maybe you have to open the screw on the front panel with the integrated Allen Key, first.

Now turn it around and push it back into the dolly. If necessary you can tight the screw on the front panel to fix it.

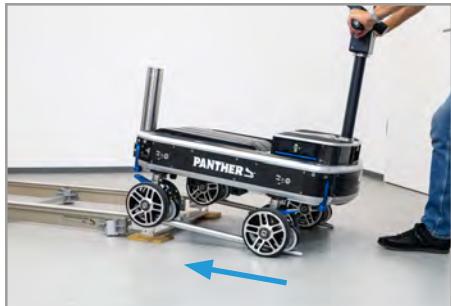


STEERING DOLLY ON TRACKS

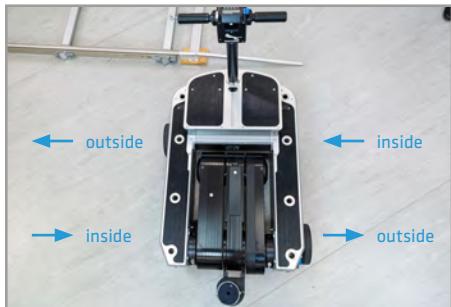
Use the S-Type on Tracks

The S-Type wheels are aligned in a square. Therefore the dolly can be moved both lengthwise and crosswise on track – without using other wheels or accessories.

To bring it lengthwise on track, position the dolly in one line with the track. If you are using curved tracks you have to switch all 4 wheel arms to „FREE“ with the integrated Allen Key.



A starter ramp can help you to bring the dolly on tracks. Now push the dolly on tracks.



To bring the Dolly crosswise on track, you first need to align two wheels diagonally inside, as shown in the picture.

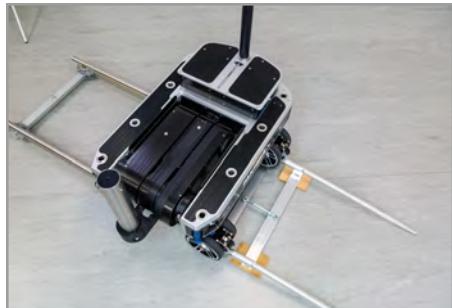
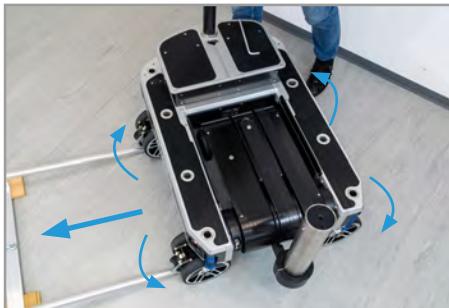


To do so you have to switch first to „FREE“ (to be able to manually move them), but after aligning switch them back to „Steer“.

STEERING DOLLY ON TRACKS

Now by turning the Steering Rod 90° all 4 wheel arms will go automatically into the outer eccentric position as shown in the picture.

The wheels are in crosswise track position now and the dolly can be pushed on tracks.



If the S-Type is used on curved tracks you have to put all 4 wheels to „FREE“ position.

■ ACCESSORIES

PUSH BAR

Foldable Push Bar

The foldable Push Bar (310342) is designed to be used in many different ways. There is only one Push Bar needed for all situations such as pushing the dolly **regularly**, pushing the dolly **beside the track**, pushing the dolly **crosswise to the track**.

Regular

As an additional comfort you can plug in the push bar on the backside of the dolly.

To fold it, you only have to open the left and right lever, and choose your position.



Beside the track

Take out the extention from it's parking position.



It is mounted by rotating clockwise on the left or the right side of the Push bar.

■ ACCESSORIES

PUSH BAR



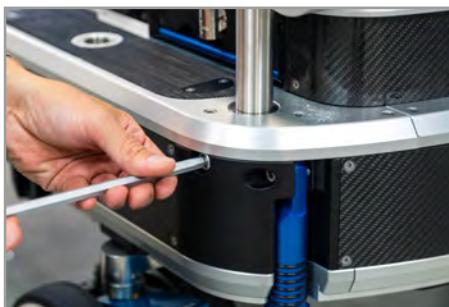
To use the Pushbar Crosswise to the track you can reposition it by plugging it in on the side of the dolly.
You can use 2 different positions on the side.



You may have to fasten the Push Bar to prevent unintentionally wiggling by using the integrated Allen Key and tighten the screws on the side of the dolly (depending on where you positioned the Push Bar).



To use the extention you have to open it by turning the left and right side contrariwise and the spread it into the Push Bar.



Height Extention

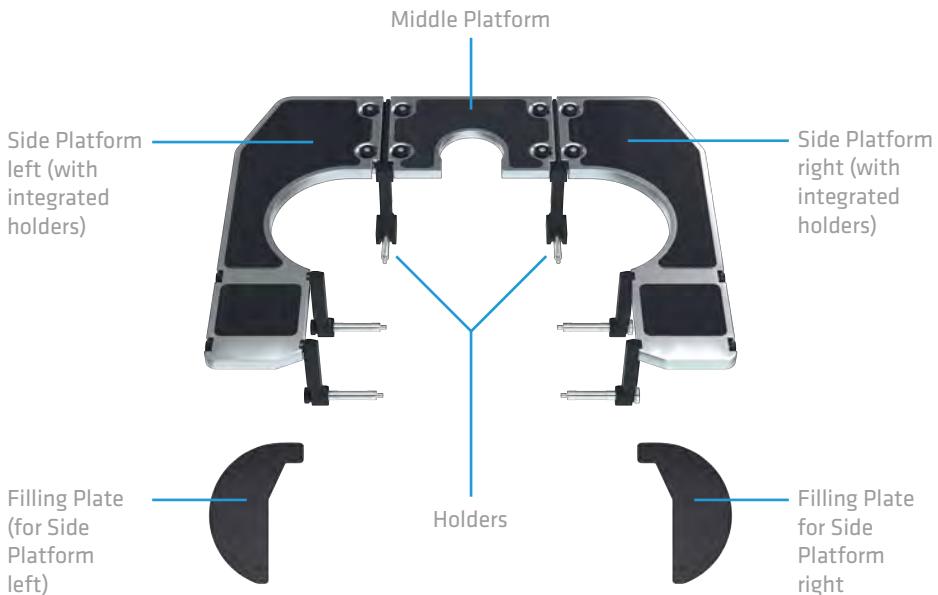
If you want to extend the height of your Push Bar there is an extention (311049) available. It is used by mounting it in between the Push Bar & the dolly.

■ ACCESSORIES

PLATFORM SET

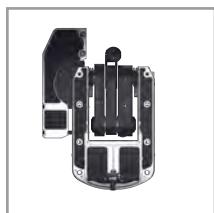
Platform Set

The S-Type Dolly needs only one Platform Set (302583) because we designed the platforms to be used as high and low platform. The set consists of 3 platforms, 2 holders and 2 filling plates.



How can it be used?

You can mount the Platform Set in different setups - depending on your or the cameramen's requirements on set (pictures are from top view).



Side Platform Single usage (left / right)



Middle Platform Single Usage



Combination Middle Platform + One Side Platform



All Platforms

■ ACCESSORIES

PLATFORM SET

How to mount the platforms

Mounting the S-Type platforms is done completely tool-free. You can use one set in high or in low mode - depending on your requirements.

The following steps are starting with the high mode.



To mount the Middle Platform you have to attach the two holders by fastening the black knobs on each side of the platform. Now you have one unit as shown in the picture.



Mount the Middle Platform on the front side of the dolly by pushing it inside of the two front holes.



After you pushed it in you have to fasten the black knob on both of the holders clockwise.



If necessary you can make it even stronger by using the integrated Allen Key (works on all black knobs).

■ ACCESSORIES

PLATFORM SET



Now you can take the Side Platform to mount it the same way you did with the Middle Platform.



Make sure to fasten the black knobs on the Side Platform as well.



If necessary you can now take the filling plate to build one flat surface.

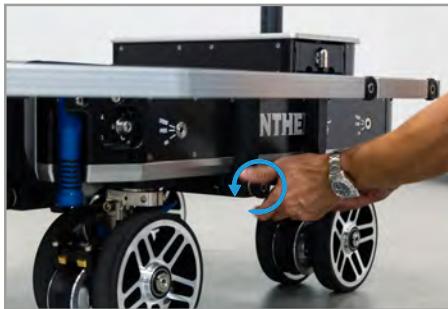
High / Low Mode

To switch now from high to low mode of the platforms the first thing you have to do is to turn the wheels from the standard gauge to narrow gauge by turning the Steering Rod 180° (please read topic „Steering - Narrow Gauge“ to learn more about this step).

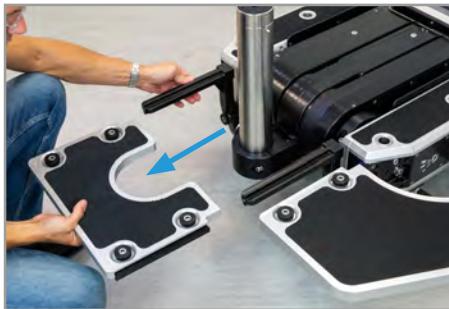


■ ACCESSORIES

PLATFORM SET



Open the Side Platform and pull it out a little bit by turning the black knobs counterclockwise.



Open the Middle Platform the same way and pull it completely out.



Open the two holders and turn it around 180°.



Fasten the black knobs on both sides.



Push in the Middle Platform and fasten the black knobs.



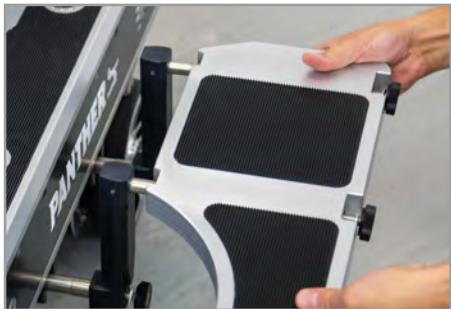
Open the black knobs on the outside of the Side Platform.

ACCESSORIES

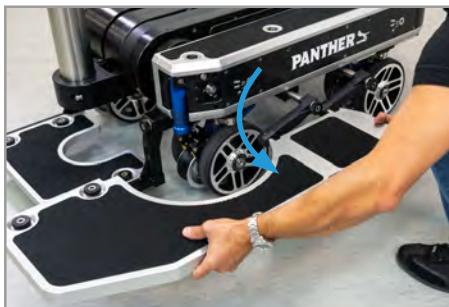
PLATFORM SET



Pull the Side Platform a little bit out of the two integrated holders by holding them.



Now you should have a gap between Platform and holders as shown in the picture.



Swivel down the Side Platform.



Push back the Side Platform into all holders, and the two integrated holders into the dolly.



Fasten all black knobs by turning them clockwise

■ ACCESSORIES

PLATFORM SET



Even in low mode you are completely free with your wheels. You don't have to worry about crashing the platforms while you are moving the dolly.



Attention

If you want to use only the left or right Side Platform you additionally need the holders on the front for stability. By using the Side Platform without the holders it may bend / damage your platform.

■ ACCESSORIES

HIGH PLATFORM

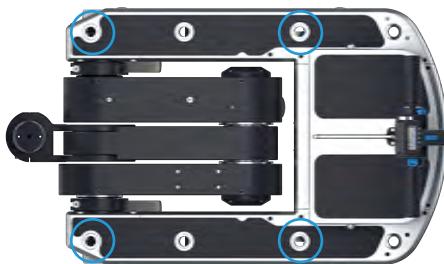
High Platform

To allow the cameraman to stand on a higher level there is a height adjustable High Platform (310810) available.

It can be mounted toolfree directly onto the dolly.



Push the High Platform's legs into the holes of the dolly (see picture on the right).



Top View



The height can be adjusted tool free. Just open the black knob and adjust the height. Push back the black button to fix the position.



After all mountings & adjustmens make sure you tighten the screws on each leg for a safe and stable stand on the platform.

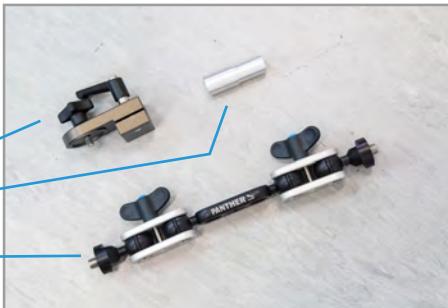
ACCESSORIES

FLEX ARM

Flex Arm for Wireless Handset

If you want to be more flexible with the positioning of the Wireless Handset there is a Flex Arm available. This is what you need:

- Handset Adapter 18mm (311567)
- Adapter 3/8" (310487)
- Flex Arm 3/8" (310482)



Mount the Handset Adapter 18mm to the Wireless Handset.



Mount the Flex Arm 3/8" on the bottom side of the S-Type Steering Rod.



You can tighten it with a wrench.



Mount the Adapter 3/8" on the other side of the Flex Arm.

ACCESSORIES

FLEX ARM



Attach the Wireless Handset to the Flex Arm as shown in the picture and fix it with the black lever on the side.



Start positioning the Wireless Handset by opening the Flex Arm's wing bolts and refix it when you have reached the desired position.



You can extend the Flex Arm's length if you have more than one piece of it available.



Combining two or more Flex Arms is possible.

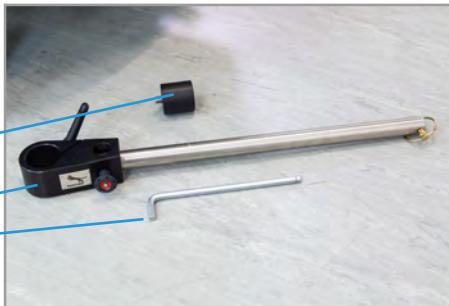
ACCESSORIES

COUNTERWEIGHT

Counterweight for Offset Operation

If you have a very offset setup in the front of the dolly, you may need to add some counterweights. This is what you need:

- Holder (178530)
- Counter Balance Rod (310836)
- Integrated Allen Key



The Holder has to be mounted into the thread on the bottom-back side of the S-Type dolly (near to the integrated carrying bar).



Use the integrated Allen Key to tighten the Holder.



Mount the Counter Balance Rod tool-free and fasten the lever on the side to prevent an unintentional tilting of the dolly.



Now you can put counterweights on the Counter Balance Rod until you are in the right level.

■ ACCESSORIES

COUNTERWEIGHT



DANGER!

Keep in mind, that the center of gravity (weight on the Scissors-Arm) is moving forward by lifting the arm. Danger of tilting!

■ ACCESSORIES

CAMERA MOUNT

Camera Mount

The S-Type Dolly comes with a 80mm Tube which allows a variety of different camera mounts and positions. You can use Bowls, Mitchell Plates and more to mount your camera. Please take a look at our accessories program or contact us directly to get more information about it.

In our example we're using an Offset Bracket combined with a standard Mitchell Plate.



Mounting is done by Plug & Play as shown in the picture.



To vary the height of the Offset Bracket you have to press the two pins.



You can position the Offset Bracket everywhere along the 80mm Tube and fix it by turning the lever on the side of the bracket.



There is no separate Low Rig needed to reach a ground level position because the arm itself is your Low Rig.

■ ACCESSORIES

CAMERA MOUNT



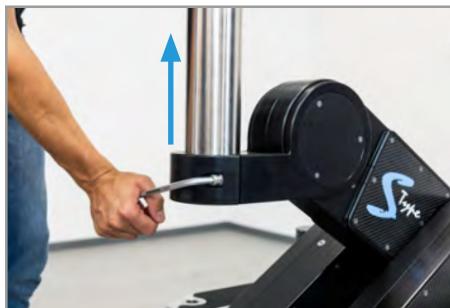
Attention

Always position the locking lever in a position without crashing the scissors-arm or any other obstacles.



Centered Camera Position

The length of the 80mm Tube is chosen to still let you center the camera in the middle of the dolly without crashing the arm with the camera mount - even on ground level position as you can see in the left picture.



To unmount the 80mm Tube you can use the integrated Allen Key, open the screw and take out the 80mm Tube.



Now you can use other accessories to mount your camera as for example a Double Euromount (125137).

■ ACCESSORIES

CAMERA MOUNT



To get more information about all types of Panther accessories you can take a look at our accessories brochure, visit our website at www.panther.tv or contact us directly.

■ ACCESSORIES

BUMPER



Bumper

The Bumper (311568) allows the operator to start pushing the dolly using his leg without any pain on it because of the soft surface of the Bumper.



To attach the Bumper to the S-Type dolly you first have to clean the surface of the back carbon cover.



Remove the upper 4 screws of the back carbon cover with a screwdriver.

The take the first velcro fastener strip and stick it onto the top of the back cover.

■ ACCESSORIES

BUMPER



When the strip is stucked on, take a cutter and make small slits into the velcro fastener (only where the carbon cover has holes for the screws).



After cutting you can put the screws to the upper side.



Repeat all steps for the bottom side.



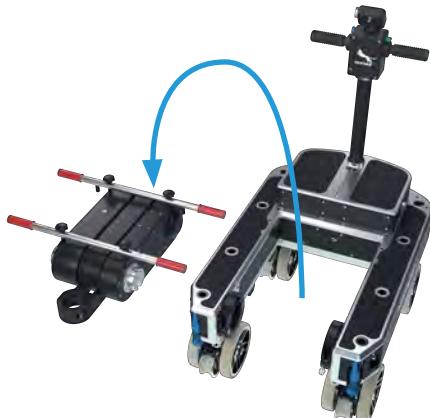
Attach the bumper to the required position along the backside of the dolly.

■ TRANSPORT

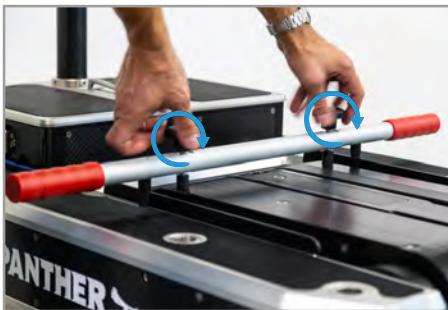
REMOVE THE SCISSORS-ARM

Remove the Scissors-Arm

Removing the arm facilitates easier transport. There are Carrying Rods (310120) available to take the arm out.



The two Carrying Rods differ in one thing: one comes with additional holders. This one is for the backside of the arm.



Take this one and mount it on the top side of the scissors-arm by turning the integrated knobs clockwise.



Attention

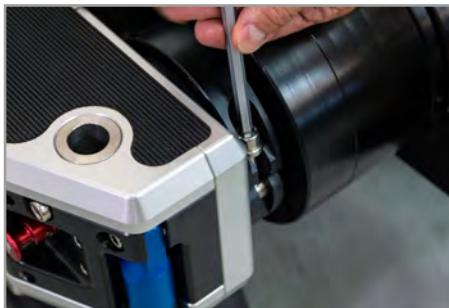
Make sure you do not confuse the two Carrying Rods. Otherwise the mechanical components are unnecessarily stressed.

TRANSPORT

REMOVE THE SCISSORS-ARM



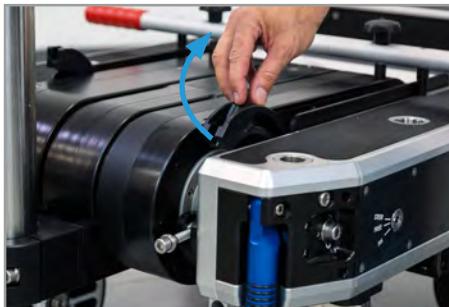
Disconnect the red electricity knob by pulling it out.



Open the two screws on the left and right side of the scissors-arm (front side of the dolly) with the integrated Allen Key.



Swing out the screws from the upper part of the holders by folding it sideways.



Open the holder on both sides of the arm.



Open the mechanical connection screw on the side of the dolly with the integrated Allen Key.



Mount the second Carrying Rod.

■ TRANSPORT

REMOVE THE SCISSORS-ARM



Now you need a second person. One person on each side of the dolly. You can take out the arm now by lifting both sides simultaneously.

Remounting the Scissors-Arm is done by repeating all steps the other way:

- Pull the Arm inside
- Tighten the mechanical connection screw
- Remove the Carrying Rod on the frontside
- Close the holders and tighten the screws
- Push back the red electricity knob
- Remove the Carrying Rod on the backside



TRANSPORT

CARRYING THE DOLLY

Carrying the dolly

The S-Type dolly comes with integrated carrying bars, one on each corner of the dolly (4 in total).



Extention

As an option there are Extentions (302783) for the carrying bars available. They are used by plug & play: press the red know and push it inside the hole of the integrated carrying bar.

The extention can be used upwards and downwards which makes it very easy to carry the dolly on stairs.



EMERGENCY OPERATION

MOVE THE SCISSORS-ARM MANUALLY

Manual Scissors-Arm movement

In some cases (for example if your batteries are down) it might be necessary to move the arm manually, without any electronic support.



Use the integrated Allen Key to open the cover on top of the Scissors-Arm.



Remove the cover and take out the wrench from the inside.



Open the cover at the side of the Scissors-Arm by turning counterclockwise.



Now you can manually move the arm upwards and downwards by using the wrench.

Never use wrench when the S-Type Dolly is powered!

NOTES



NOTES



NOTES

FURTHER ASSISTANCE

If you need any further assistance with this instructions (or also other questions) please contact our service department.



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