



S-TYPE DOLLY

Series 3
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

A handwritten signature in black ink, appearing to read 'A. Fitz', with a stylized flourish extending from the end.

Andreas Fitz

CEO | Executive President
Panther GmbH

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TECHNICAL DATA



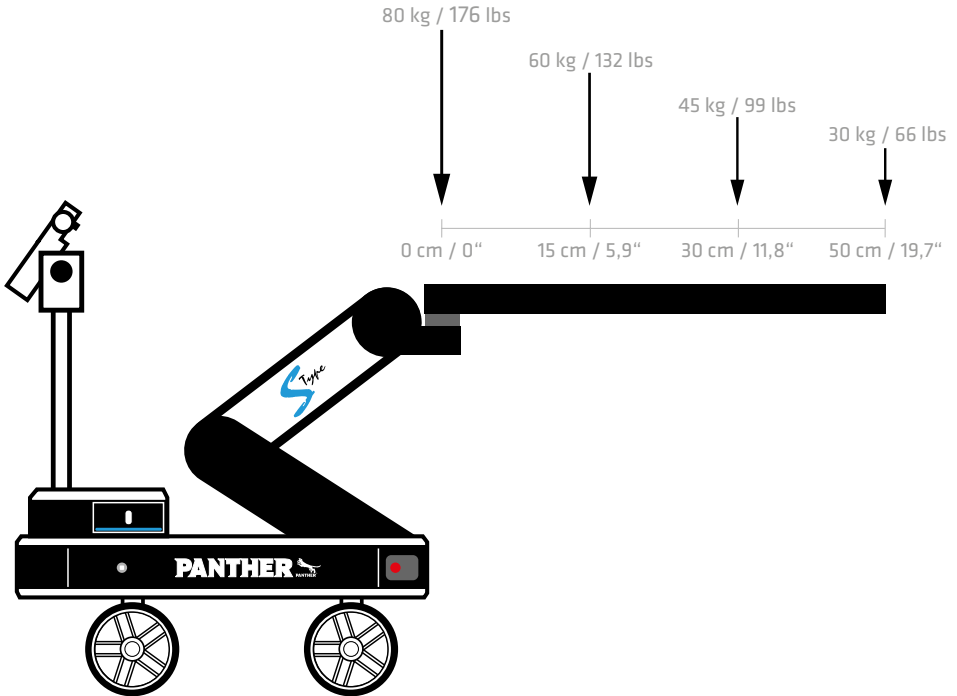
Length (Dolly)	96,5 cm / 38"
Width (Dolly)	64,5 cm / 25,4"
Height (Dolly)	39,5 cm / 15,55" (front) 48 cm / 18,9" (rear)
Center Distance (Scissors-Arm)	37 cm / 14,6"
Standard Lift range (Low-Mode)	103 cm / 40,6"
Max. Lift range (Super Low-Mode)	146 cm / 57,5"
Transport weight (Dolly without wheels)	104 kg / 229 lbs
Transport weight (Scissors-Arm)	73 kg / 160 lbs
Track Width	62 cm (wide) 48 cm (narrow)
Ground Clearance	21cm / 8,3"
Payload (Dolly)	800 kg / 1764 lbs
Payload (Scissors-Arm)	80 kg / 176 lbs
Battery	2 x 24V

TECHNICAL DATA

LOAD CHART

Offset

The S-Type Scissors-Arm has a max. payload of 80 kg / 176 lbs. The more you put load into offset the more decrease of your max. payload you have. Overloading the Scissors-Arm is prohibited. Check the load table below for detailed max. payload:



■ 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.



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!



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.

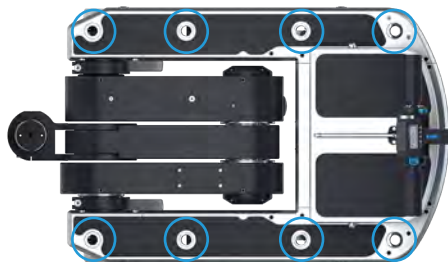


PREPARING SEAT & SEATARM

Seat & Seatarm

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

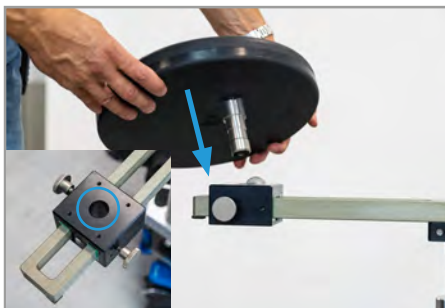
Of course, you can also take a second seat arm and use two at the same time.



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.



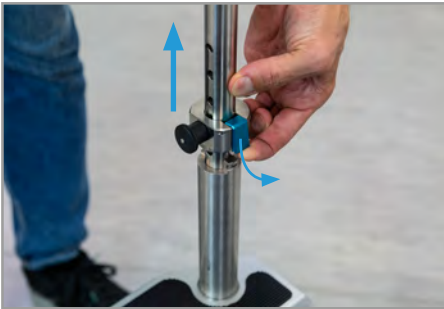
You may have to fasten the Seat Arm to prevent unintentionally wiggling by using the integrated Allen Key and tighten the screws on the side of the dolly (depending on where you positioned the Seat Arm).



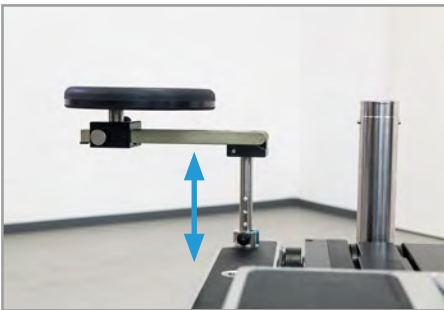
PREPARING SEAT & SEATARM

Height Adjustment

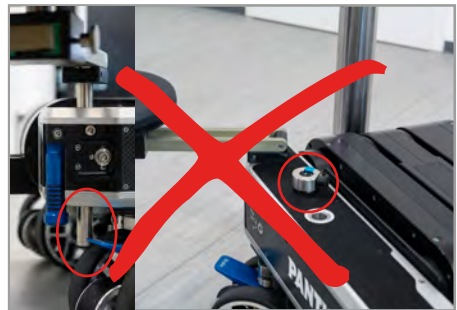
The height of the seat arm can be adjusted tool free. Pull the black knob on the seat arm tube and adjust the height. Push back the black button to fix the position.



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.

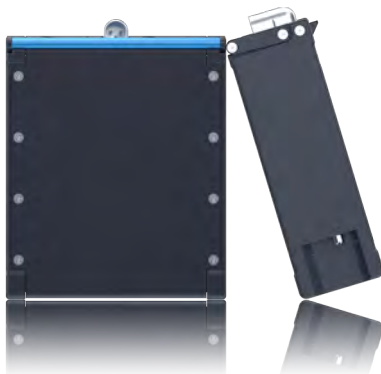


Don't use the seat arm without the blocker (with the black knob & blue lever). Otherwise you would damage the dolly wheels.

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 you battery is fully charged, the blinking light should change into a continuously light.



Charging via Charging Station

To charge 2 batteries simultaneously we offer a Charging Station (313 165). Plug in one end into a wall socket and insert both batteries.

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



PREPARING POWER SUPPLY

Charging Station as Power Source

The Charging Station 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 frontpanel of the dolly.



Open the protection cover of the connection socket and plug in the Power Cable (313 426).



Plug in the other end of the cable right into the Charging Station.

Now you can turn on the Charging Station and operate the dolly. Make sure that both batteries are inserted in the Dolly.



Batteries must be plugged in!

The Charging Station only works, if you have plugged in the batteries into the dolly. While operation via cable, the batteries are charged. Do not insert (charge) batteries into the Charging Station while charging the batteries from Dolly.

PREPARING POWER SUPPLY

Charging the Bluetooth Handset

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



Regular Charging

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

The Display will show „charge“.

Charging via Dolly connection

Despite charging the Bluetooth 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 Bluetooth 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-Types's (and accessories) complete lift, panning and movement range must be cleared before switching on the dolly.

Step 3:

Connect the Bluetooth 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 Bluetooth Handset.



BLUETOOTH HANDSET

GENERAL



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 three seconds. It is also used to get back to the Home Screen

Shortcut Button

Adjustable Shortcut Button

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.

BLUETOOTH HANDSET

GENERAL

Water resistance

The Panther Bluetooth 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 bluetooth handset may not be opened by yourself. Consider that the bluetooth handset was not made to operate underwater. The water resistance is only to protect you device.

Frequency band

The Panther Handset works with a Bluetooth connection.

Distance

The maximum reach of the Panther Bluetooth Handset is up to 20m / 66 ft. - this value always depends on your current location (many walls or no walls, forest or field etc.). For more reach and more stable connection use a longer antenna at the Dolly's frontpanel.




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.


BLUETOOTH HANDSET

START THE OPERATION

To start using the S-Type

1. Turn on the dolly
2. Turn on the Bluetooth Handset by pushing the  Button for few seconds

To stop the operation of the S-Type

1. Turn off the Bluetooth Handset by pushing the  Button for a few seconds
2. Turn off the dolly



Attention

If you connect the handset with the dolly while operating, the device will not work properly. Please turn off the handset and the dolly and start the procedure as written above.

You can turn off the dolly in every arm position. If you loose the connection to the dolly while operating, the magnetic break will be activated and your arm will stay in position.



Recommendation

We recommend to store your dolly in a Horizontal arm Position as often as possible.

BLUETOOTH HANDSET CONNECT

DISCONNECTED

SPEED 1


RAMP *Soft*

BATTERY HANDSET 72%

BATTERY DOLLY 80%

37

Menu Speed Ramp Limit PRG

 **No Connection**
If the bluetooth handset is not able to connect with your dolly you will see a **DISCONNECT** sign on your screen.

Connected

SPEED 1


RAMP *Soft*

BATTERY HANDSET 72%

BATTERY DOLLY 80%

37

Menu Speed Ramp Limit PRG

 **Connected**
If your bluetooth handset is connected, you will see the icon on the top left turn blue.

Charging

SPEED 1



RAMP *Soft*

BATTERY HANDSET *charge*

BATTERY DOLLY 80%

37

Menu Speed Ramp Limit PRG

 **Charging**
If your bluetooth handset is connected correct via the cable, you will see  on the top left side of the screen. You can not connect the handset via the cable to the dolly while operating. Restart Dolly and handset.



You can connect one handset to different panther devices. To change the device go to Menu ▶ Settings ▶ Connection and choose the correct unit.

BLUETOOTH HANDSET

HOME SCREEN

Speed

Adjust the speed of the movement. You can choose between five speed settings.

Ramp

Adjust the ramp of the movement. You can choose between four ramp settings.

Battery Handset

Shows the battery state of the handset.

Battery Dolly

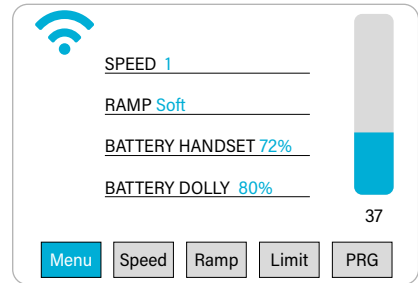
Shows the battery state of the dolly.

Position Bar

The Position bar shows the current height of the arm in percentage.

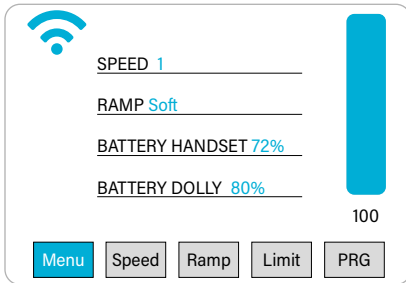
Menu

Menu Buttons



BLUETOOTH HANDSET

MANUAL DRIVE



How to drive the arm manually

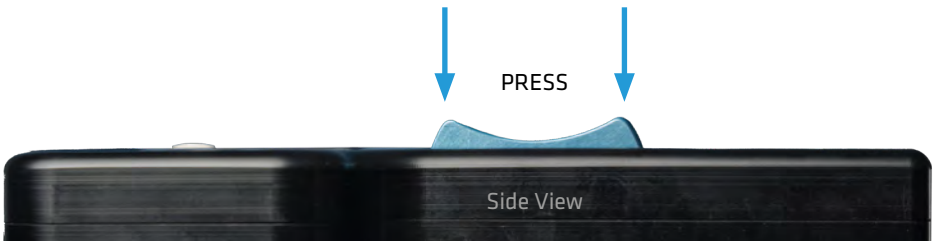
In the Standard Mode you can control the dolly via the rocker from 0 (low position) to 100 (up position).

Attention

Make sure that „Arm“ is set to „low“. If it is set to „super-low“ please reset it to „low“ (check page 28). If „super-low“ is required, please operate very carefully, because it will run below its ground level position.



The Bluetooth 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.



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



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

BLUETOOTH HANDSET

SPEED / RAMPS ADJUSTMENT

Speed adjustment

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

In this case the speed is set to level „1“ (minimum speed). You can choose between speed 1-5:

speed 1: 0...20%

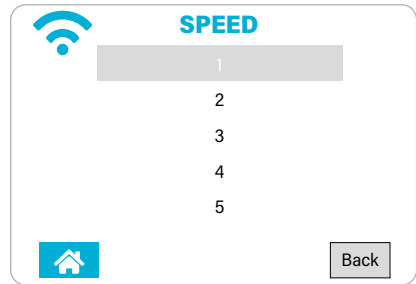
speed 2: 0...40%

speed 3: 0...60%

speed 4: 0...80%

speed 5: 0...100% (maximum speed)

To adjust the speed level you have to **press** the **SPEED** button and choose your speed setting



Ramps adjustment

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

In this case the ramps are set to level „soft“. You can choose between 4 different ramp settings:

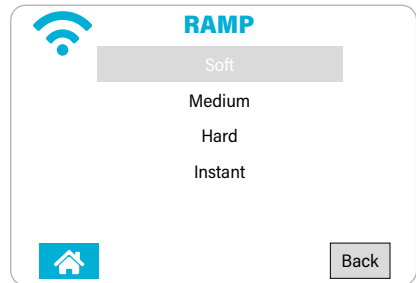
soft ramps: acceleration very soft, hardly perceivable

medium ramps: characteristic between soft and hard

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

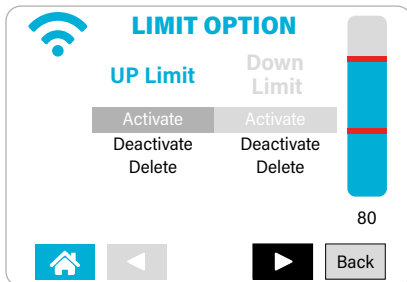
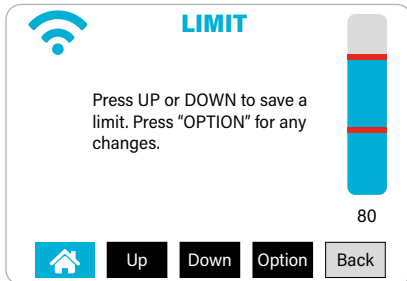
instant ramps: immediate response of the control

To adjust the ramps you have to **press** the **RAMP** button and choose your ramp setting.



BLUETOOTH HANDSET

SET LIMITS



Setting a limit

To set an upper limit to your dolly arm you have to press the **LIMIT** button, press the UP Button and set your limit. The red marking will indicate the limit.

To set an lower limit to your dolly arm you have to press the **LIMIT** button, press the DOWN Button and set your limit. The red marking will indicate the Down Limit.

Activate, deactivate and delete previous limit

To change the previous limits settings you have to navigate to the limit option menu. Press the **LIMIT** Button and then **OPTION** Button. You can choose between Activate, Deactivate and Delete. You can navigate with the Toggle Buttons and choose between Up and Down Limit with the **◀** / **▶** Buttons.

BLUETOOTH HANDSET

PROGRAM MOVEMENTS

PROGRAM

Start existing program

New (Manually)

New (Record)

Back

PROGRAM

Starting Position

Please move manually to your required starting position and press the "OK" button (right).

37

Exit

PROGRAM

Speed	Ramp Start	Ramp Stop
1	Soft	Soft
2	Medium	Medium
3	Hard	Hard
4	Instant	Instant
5		

90

Exit

PROGRAM

ProgramMan#1

ProgramMan#2

ProgramMan#3

Delete

Back

Program Mode

To enter the program mode, navigate to Menu ► Programm.

You can use an existing program, set a new one with fixed points and record your exact movement.

You can save up to 5 programs.

Manual program

In the manual program you choose the start position and you can add fixed movement points. You can set the speed and ramp of each individual movement. It is possible to setup up unlimited number of individual moves.

How to set a new manual program

Navigate to Menu ► Programm ► New (Manually).

1. Set your starting position with the rocker and confirm with OK button.
2. Move the arm to your desired position and confirm with OK button.
3. Set your **speed, start** and **stop ramp**.
4. Save the move...
 - Finish & Save - Save the move to your program collection
 - Next movement - Add a following move to this program, the process will start over
 - Overwrite current movement - delete the old movement and save the new one

BLUETOOTH HANDSET

PROGRAM MOVEMENTS

Record Program

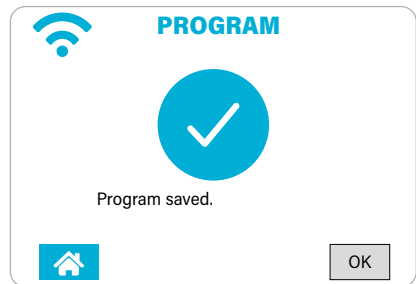
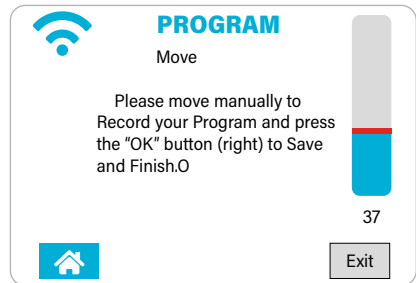
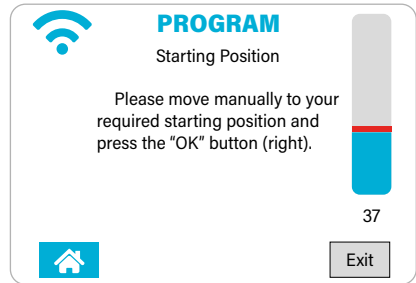
In the record program mode you can record your exact movement (Motion Control). The values of your **speed**, **start/stop** ramp and the **starting/ending** point are recorded and repeatable.

How to set a new recorded program

Navigate to Menu ▶ Programm ▶ New (Record).

1. Set your starting position with the rocker and confirm with OK button.
2. Recording starts as soon as you press the rocker.
3. Finish the recording with the confirm OK button

Your manually recorded program will be saved in your program collection.



BLUETOOTH HANDSET

SHORTCUT BUTTON

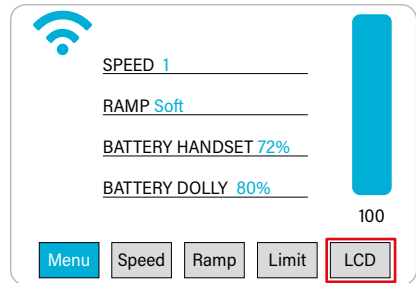
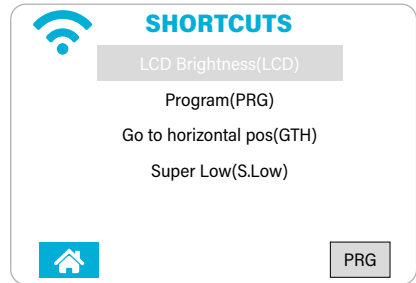
Setting the Shortcut Button

You can customize the right menu button with four different options. To change the Shortcut Button go to Menu ▶ Settings ▶ Shortcuts.

There are following options to choose:

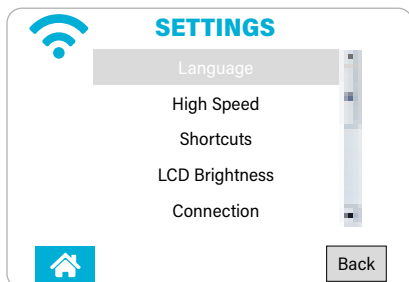
- LCD Brightness **LCD**
- Program **PRG**
- Go to horizontal position **GTH**
- Super Low Mode **S.LOW**

You can find the instructions of this functions later in the manual. Your current setting is displayed in the down, right corner.



BLUETOOTH HANDSET

FURTHER SETTINGS



Language

Choose the language of the handset. There are several different options.

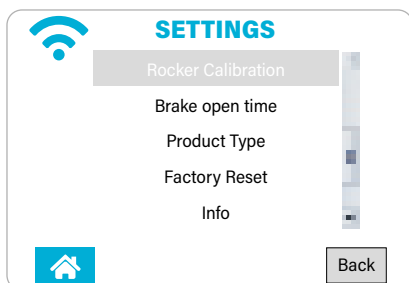
High Speed

You can use the dolly in a special high speed mode. Which increase the speed to a level 6. .

Caution

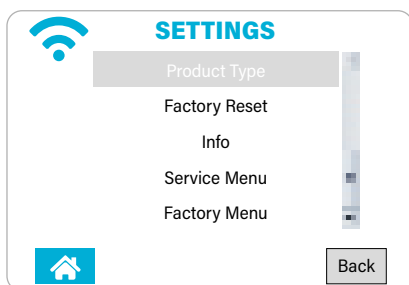
The maximum load capacity of dolly change in this mode to 30kg/65lbs, increase the noise and reduces smoothness! If the High Speed setting is selected, it will be displayed in the home screen as

HIGHSPEED



Shortcuts

Changes the Shortcut Button setting.



LCD Brightness

Change the backlight brightness of the LCD Screen. You can choose between several different settings.

Connection

You can connect one Bluetooth Handset with different Panther products. Run the search and choose your unit.

Rocker Calibration

Calibrate the handset rocker. Follow the on-screen instructions.

BLUETOOTH HANDSET

FURTHER SETTINGS

Brake open time

You can delay the activation of the brake in the arm and have a silent operation.

Product Type

You can use the Bluetooth Handset for different Panther Products. Choose your current product.

Factory Reset

- Restore to Factory Settings. Factory Reset delete following options:
- All Programms
- All Limits
- To Speed 1
- To Ramp soft
- Shortcut Button to Program
- Break open time to 5 seconds



You can also run the factory reset by pushing the button combination as shown right.

Info

Serial Numbers and Firmware of the Handset and the Dolly.

Service/Factory Menu

Settings for the Panther Service.



BLUETOOTH HANDSET

GO TO HORIZONTAL POSITION



Set the scissors-arm in horizontal position

You can set the scissors-arm to a neutral position with one button. This position is also the transport position and the position to detach the arm from the chassis.

To activate, navigate to Menu ► Go to Horizontal Position. Make sure the range of the motion is clear and confirm the process.

BLUETOOTH HANDSET

SUPER LOW MODE

Super Low Mode

In order to use the full range of the scissors arm, we developed the patented full range 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 Settings Menu when it is needed.

Attention

If the Super Low Mode is activated, please operate very carefully, because it will run below 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.

The maximum load capacity of dolly change in this mode to 30kg/65lbs.



How to activate the Super Low Mode

To activate the Super Low Mode navigate to Menu ► Super Low.

In this mode your Position Bar can move from 100 to -100.



CONTROL PANELS

CONTROL LEDES

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

green LED is blinking if a minimum limit is active.

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.



Power socket

see page 10/11

Antenna

Antenna can be changed into a longer one for more distance reach

General Information

The S-Type Dolly has been designed to carry heavy loads in order to ensure you the most flexibility on set. The following table informs you about when to use which wheel do achieve the best possible working experience.

Studio Wheels hard	recommended to a load of max. 800 kg
Studio Wheels soft	recommended to a load of max. 350 kg
Studio Wheels Air	recommended to a load of max 350 kg (tire pressure 2,5 - 3,5 bar)
Pneumatic Wheels	recommended to a load of max. 100 kg (tire pressure 3,2 - 3,5 bar)
Big Wheels	recommended to a load of max. 100 kg (tire pressure 3,2 - 3,5 bar), just for transportation

Distinguish the Studio Wheels

Studio Wheel hard and soft - both of them are black rubberized. To distinguish them you have to take a look onto the rim of it. Every Studio Wheel has lasered the type of wheel in the rim to make it easy to identify.

H = Hard

S = Soft



Attention

Long standing times are creating bruises on the Studio Wheels. We recommend you the usage of the Big Wheels (or other appropriate measures) for longer standing times of the dolly.

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.



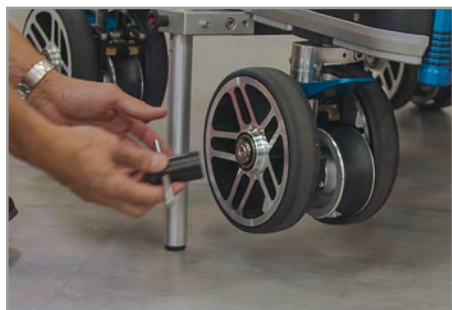
Leverage the S-Type with the Dolly Jack.



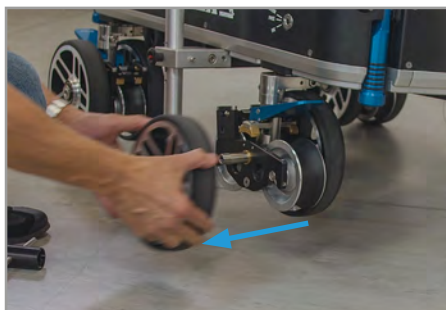
The wheels on one side are now free and ready to be changed.

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.

Pneumatic Wheels

Changing to pneumatic wheels is done the same way. In order to use them, please make sure that you fill it with 3,2 - 3,5 bar tire pressure.



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



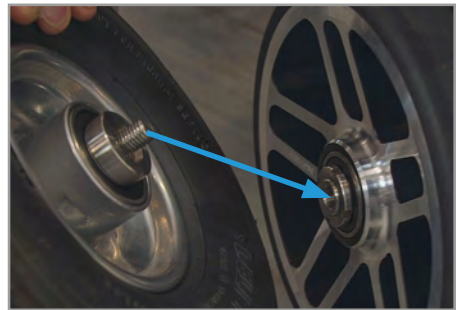
Leverage the S-Type with the Dolly Jack.



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.



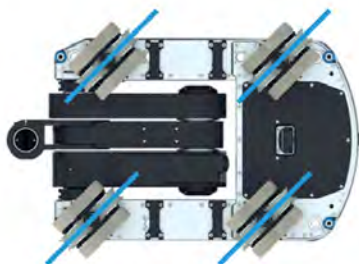
Repeat these steps with the 3 other wheels.

STEERING

GENERALS

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

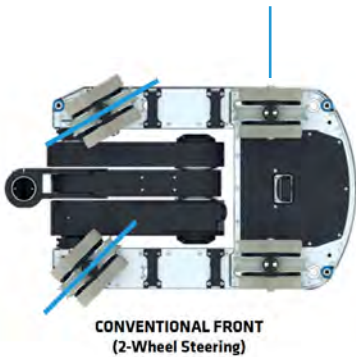
Switching to Conventional Front / Rear

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.

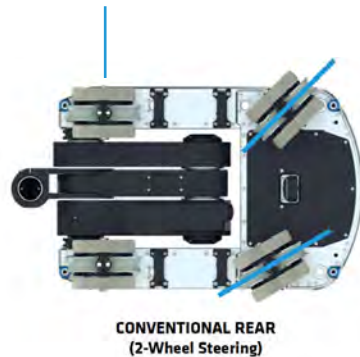


Take the integrated Allen Key and block the front or rear wheels by switch the screws on the side of the dolly to „FIX“. Now the wheels will keep their straight position.

Rear Wheels Blocked



Front Wheels Blocked



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

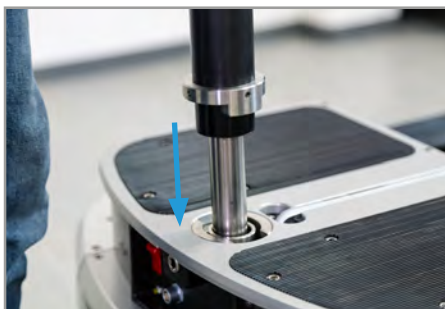
Remove the Steering Rod

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.



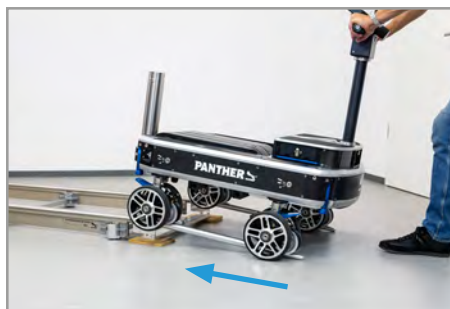
STEERING

DOLLY ON TRACKS

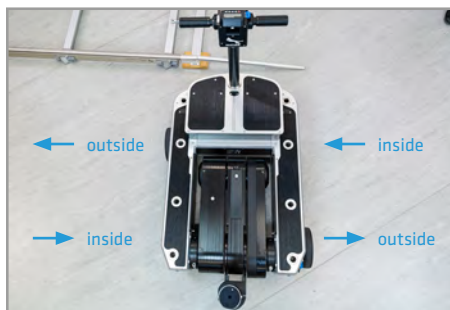
Use the S-Type on Tracks

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.



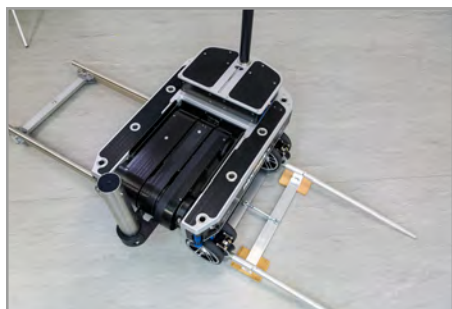
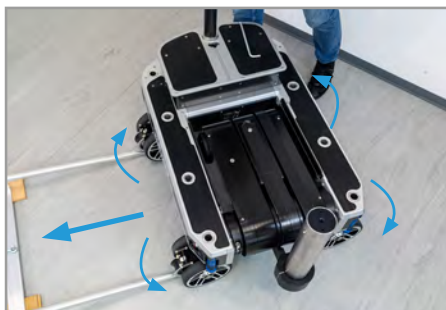
To do so you have to switch first to „FREE“ (to be able to manually move them), but after aligning switch them back to „Steer“.

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 extension 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



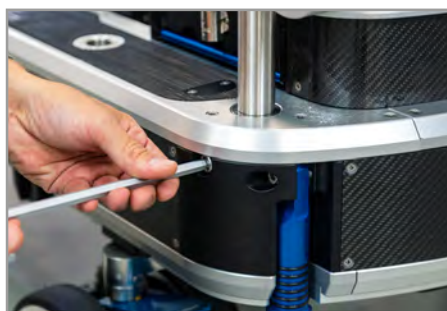
To use the Pushbar Crosswise to the track you can reposition it by plugging it in on the side of the dolly.
You can use 2 different positions on the side.



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



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).



Height Extention

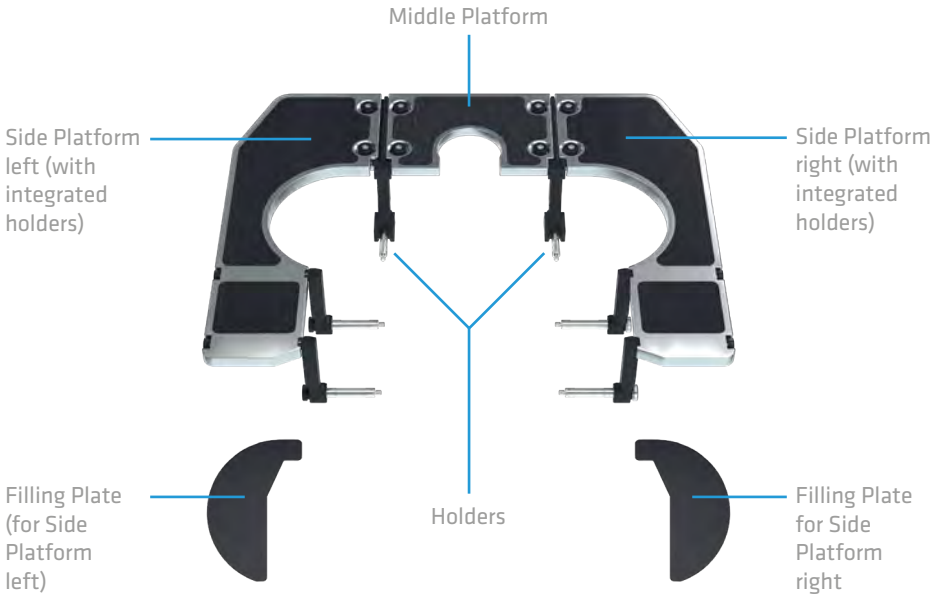
If you want to extend the height of your Push Bar there is an extension (311049) available. It is used by mounting it in between the Push Bar & the dolly.

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?

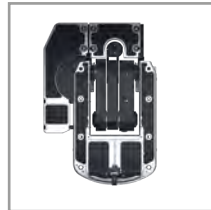
You can mount the Platform Set in different setups - depending on your or the cameramen's requirements on set (pictures are from top view).



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.



Attention

Do not use the Allen Key to fasten the knobs! The screw is only ment for opening.

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.



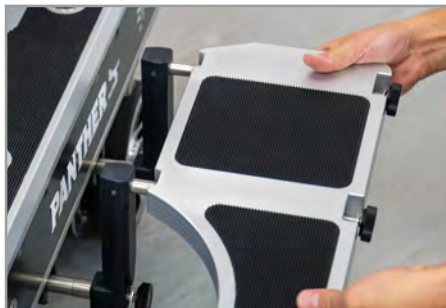
Open the black knobs on the outside of the Side Platform.

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

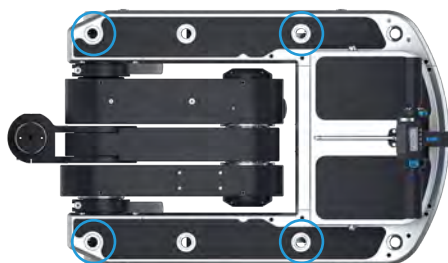
HIGH PLATFORM

High Platform

To allow the cameraman to stand on a higher level there is a height adjustable High Platform (311537+311538) 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 & adjustments make sure you tighten the screws on each leg for a safe and stable stand on the platform.

ACCESSORIES

HIGH PLATFORM

Flexible and variable mounting options.



Steppless positioning possible



Pay Attention

Lifting area of arm must be free.
Set a limit for additional safety
and help.

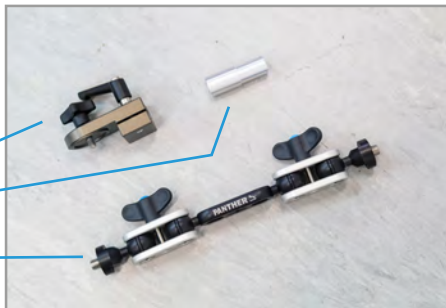
ACCESSORIES

FLEX ARM

Flex Arm for Bluetooth Handset

If you want to be more flexible with the positioning of the Bluetooth 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 Bluetooth 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 Bluetooth Handset to the Flex Arm as shown in the picture and fix it with the black lever on the side.



Start positioning the Bluetooth 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.

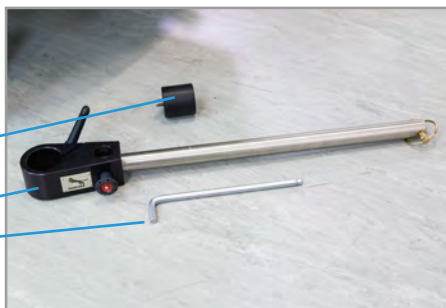
ACCESSORIES

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 liftig the arm. Danger of tilting!

ACCESSORIES

CAMERA MOUNT

Camera Mount

The S-Type Dolly can be equipped 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.



Attention!

We recommend the closest possible Camera Mount to the arm in order to get most stable and smooth movement.

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

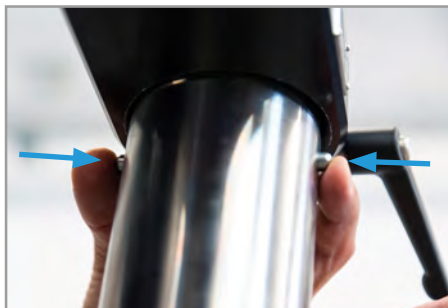


ACCESSORIES

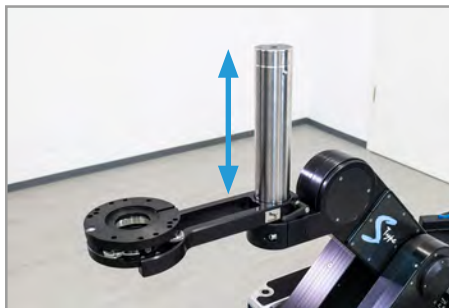
CAMERA MOUNT



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.



Attention

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



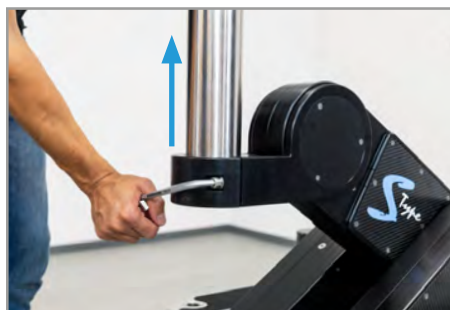
ACCESSORIES

CAMERA MOUNT



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).



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.

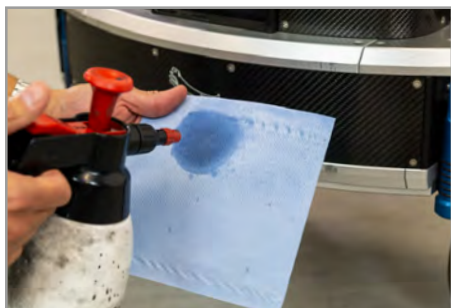
ACCESSORIES

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.



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

ACCESSORIES

BUMPER



When the strip is stuck 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.



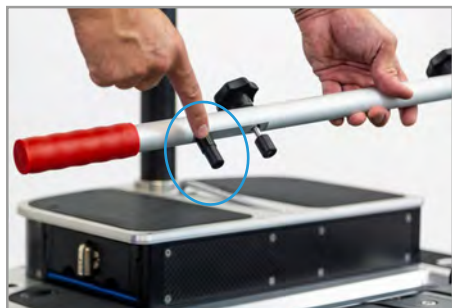
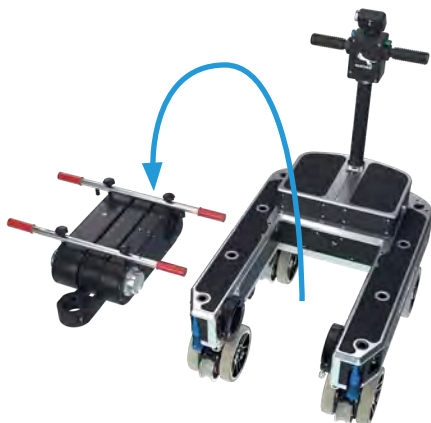
Attach the bumper to the required position along the backside of the dolly.

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



Slide Safety Sledge to the side



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.

TRANSPORT

REMOVE THE SCISSORS-ARM



Mount the second Carrying Rod.



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).



Extension

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

The extension 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.



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!

FURTHER ASSISTANCE

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



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