AutoPod Ultra

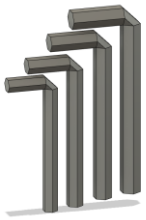
User Manual

V1.1- 20th November 2024

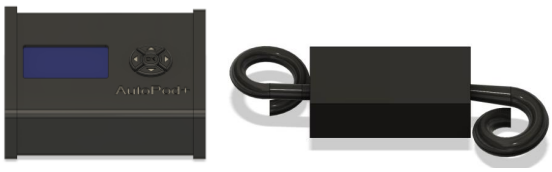
For products ATP#300

Contents of Kits

ATP300-AutoPod Ultra Standard Kit:

 *Cartoni Tripod*	 *Emergency Overide Cable*
 *Velcro Strap*	 *Rx Box*
 *3 metre IEC cables with continental plug*	 *24V Power Supply*
 *Camera plate plus x2 1/4“ screws*	 *Hex keys*
 *Elevation Leg (x2 in Double Elevation System)* *(Available in White or Black)*	 *20mm Riser Rods* *(Available in Silver or Black)*
 *Cable Management Clips* *(x2 in Double Elevation System)*	 *3m 6Pin XLR cable* *(x2 in Double Elevation System)*

Accessories

NEW PRODUCT  *AutoPod Ultra TriPod Dolly*	NEW PRODUCT  *Pancake (Available in Silver or Black)*
 *T Bar (Available in Silver or Black)*	 *Extended T Bar (Available in Silver or Black)*
 *Cable Management Clips*	 *Cable Management System*
 *Additional Elevation Unit (Available in White or Black)*	NEW PRODUCT  *AutoPod Ultra Wheeled Travel Tube*
 *Tx Box and Power Supply*	 *Variable Foot Pedals*
 *100mm Bowl and Adapter*	

Safety

Water, Moisture and Dust

WARNING! The product is not intended to be used in wet or damp conditions. Protect against moisture and dust. The presence of electricity near water can be dangerous.

Ventilation

CAUTION! The product may get warm. Do not cover. Allow sufficient ventilation and airflow around the product to ensure reliable operation

Operating Environment

CAUTION! The product should not be used outside the operating limits. Refer to the product technical specifications for the product operating limits regarding temperature, weight etc.

Cleaning

WARNING! Risk of electric shock! Always disconnect and isolate the product from all sources of power before cleaning.

Caution

Do not use abrasives, wire brushes or chemicals to clean the product. Clean with a soft dry cloth.

Maintenance

WARNING! Apart from regular cleaning, the product has no user serviceable parts and should not be opened by anyone other than Polecam authorised technicians. Care should be taken to regularly inspect all cables and accessories for signs of damage, wear, and tear. Any damaged cables, connectors or accessories should be replaced with Polecam authorised replacements. If in doubt, contact service@polcam.com who will be able to advise you. The fitting of non-approved parts or accessories, or carrying out of non-approved alterations or servicing can be dangerous and could affect the safe operation of the product. It may also invalidate the terms and conditions of the product warranty.

Working with Robotic Equipment

The equipment is operated remotely and as such can move suddenly without warning. No audible warning will be given as it is counter-productive to the broadcast environment.
It is recommended that only trained personnel be allowed to enter or work within the active operating areas where remotely operated robotic equipment is located. The recommended safe operating distance is a minimum of 1M (3ft).

Operators Guide for Safe Use

All Operators must familiarise themselves with the operation and working footprint of the AutoPod, ancillary equipment and payloads including but not limited to (Robotic Heads, Jibs, Cameras, Lenses, Tele-prompters and Zoom/Iris/Focus drives etc.) before operation commences to avoid inadvertent collisions or injury to personnel.

Care should be taken to note the safe working minimum and maximum height of the equipment.

Operation should not begin or if in progress should stop immediately if the operator feels personnel or other equipment are too close.

It is strongly recommended that the operator visually verifies that the active operating area is clear of personnel and other hazards before and during remote operation.

Using more than one AutoPod in series can be dangerous without sufficient planning. It is the operator's responsibility to check before operation begins that all equipment is securely fixed to level ground and each other and special care should be taken to check for overhead, cables, gantries, lighting rigs, sound equipment and any other hazard that may impede the safe operation of the Autopod(s) and cause damage to equipment or injury to personnel.

Make sure cables are safely routed and are long enough to avoid strain or entrapment.

Operator Notes

AutoPod is a very cost-effective portable turnkey (complete) system for elevating cameras, designed for, but not limited to, PTZ cameras.

There are 4 models in the family.

AutoPod - The first generation and a hardwired (no serial or ethernet) system with fixed speed for elevation and soft stop/start. The foot pedal (3pin XLR - max extension 100m) is for stop/start for up/down only. The desk controller does the same as the foot pedal but also has 3 preset memory positions (5-pin XLR - max extension 50m). The ACU (Autopod Control Unit) is AC powered and needs to be within 15m of the legs.

AutoPod Plus - As above BUT with ethernet, serial data and varispeed foot pedals. Panasonic AW protocol allowing control through Panasonic PTZ control desks (RP-50/120/150 etc). Visca (Sony, Marshall, Bird Dog etc), coming soon.

AutoPod Ultra - With our good friends at Cartoni we now have a tripod system which contains our AutoPod elevation legs. Ideal in a studio environment with Prompters or getting that extra height and stability. This is also available in a conversion kit for existing customers with other models.

PanaPod - Exactly the same as AutoPod Plus but bespoke for Panasonic and can only be bought and sold by Panasonic authorised dealers.

PanaPod Ultra - Exactly the same as AutoPod Ultra but bespoke for Panasonic and can only be bought and sold by Panasonic authorised dealers.

When using any of our models it is possible to invert your PTZ camera if you have purchased a T-Bar or Extended T Baras an additional extra. If your camera is inverted, you must use the safety chain shown in the picture on the right.

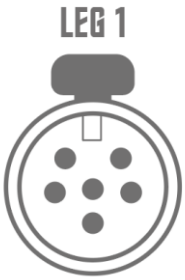
The AutoPod systems all use a “V” quick lock system to connect the components together. To use place the “V” shaped wedge into the corresponding hole and twist the knob clockwise to secure it in place. To loosen and subsequently disconnect the components, rotate the knob counterclockwise. Ensure the knob is finger tight before using the system.

Tips and Tricks

Visit our YouTube channel for more videos
www.youtube.com/polecaminaction

If in doubt, get in touch!

steffan@polecam.com
+44 (0) 1234 855 222



*When only using a single leg system, ensure the data output cable is connected to the **Leg 1** port on the Leg Controller (Rx)*

Running Calibration
Do Not Touch
"Rome Wasn't Built in A Day"

If in doubt, recalibrate your system!

IP: 172.16.1.200
NM: 255.255.0.0
GW: 172.16.1.1
OP: 172.16.1.199

IP addresses, make sure your controller and Rx are both in the same IP range, and the target IP address on the controller unit is set correctly.

Basic Setup (Step by Step)

1. Stand the Tripod on its three feet and put the mid-level spreader at the bottom of the elevation leg and tighten the knob.
2. Attach the Rx and 24Vdc 8A Switchmode PSU to the tripod cartage using the Velcro attached.
3. Secure the Rx and 24V dc 8A Switchmode PSU to the tripod cartage using the supplied Velcro strap.
4. Connect the Leg Controller (Rx) to the leg using the 6 pin XLR cable.
5. Connect the 24Vdc 8A Switchmode PSU to the Leg Controller.
6. The system will automatically calibrate.
7. Connect the system to the controller (either the Tx box or the external controller of your choice). Follow the wiring diagrams later in this manual for further guidance on connecting the system and a controller unit.
8. Operate!

Specifications

Images not to scale

Elevation Controller (RX)

Dimensions	165 x 105 x 55
Weight	0.49 kg
Voltage In	110/20V AC via supplied switchmode PSU – 24Vdc @ 8 amp
Power Consumption *(in standby)*	RX 1 W

Connections are made using high quality Neutrik industry standard XLR connectors.

Elevation Column

Design	3 stage elevation unit with built in motor and mechanism
Standard Installation Dimension *(not including "V" plates or base)*	560 mm
Standard Stroke	675 mm
Weight *(without mounting plates)*	8 kg
Noise Level	Low and Uniform
Speed	Variable speed via proportional control pedals
Thrust	700N
Max Payload	When used in single system- 35kg When used in double system- 25kg
Working Ambient Temperature	+5 to +40 ^{o}C
Storage and Transport Temperature	-10 to + 70 ^{o}C

Hall sensor to enable parallel drive

Operation

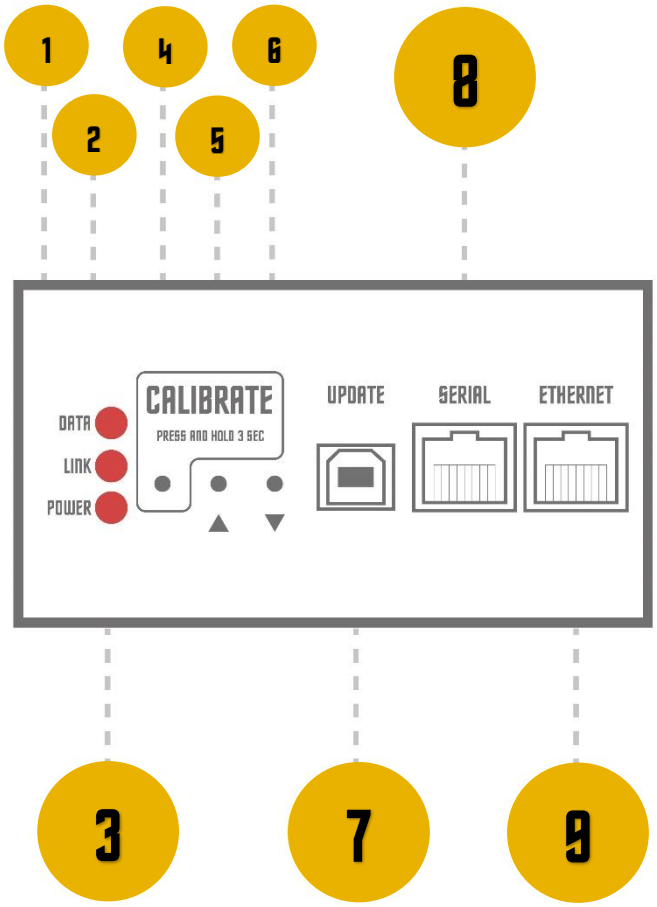
Getting Started
Before you start using your AutoPod system, you must familiarise yourself with the full list of components, their features, and functions.

To see a list of all the contents of the kit please look at the first page of the manual if you have any questions please get in contact at *steffan@polecam.com* *+44 (0) 1234 855 222*.

IMPORTANT
Ensure that all connections are made before switching on any power; failure to do so may result in the system needing to be re-booted and/or calibrated for effective and accurate operation. See connection set-up diagram on next page - do not apply power until configured

NOTE
When operating the AutoPod Plus with a single elevation unit, the unit should be plugged into “LEG1“. Leg 2 is not active when running a single Elevation unit.

Leg Controller (RX) – Front Panel



1 Data

Red LED illuminates/flashes only when data is sent between the TX and RX units (ethernet only)

2 Link

Red LED illuminates when a confirmed connection between the TX and RX units (ethernet only)

3 Power

Red LED illuminates when power is supplied to the system. If blinking, the system needs calibrating.

4 Cal

Pressing the calibrate button for 5 seconds will initialise a system calibration

When calibrating the power light goes out and the Link & Data lights flash for each leg to show calibration is in process. When complete, return to normal. If Auto Calibrate is switched off and a leg needs calibrating (power cycle OR leg re-plugged), the Power light will flash. Pressing preset #14 can turn Auto Calibrate on/off directly in the Rx box.

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5 Up

Push button to elevate the elevation unit/s to the required height at a fixed speed – these heights may be "stored" and "recalled" in the "presets" menu in the TX controller

6 Down

Push button to lower the elevation unit/s to the required height at a fixed speed – these heights may be "stored" and "recalled" in the "presets" menu in the TX controller

7 Update

USB type B Port enables future system updates to be loaded to the controller

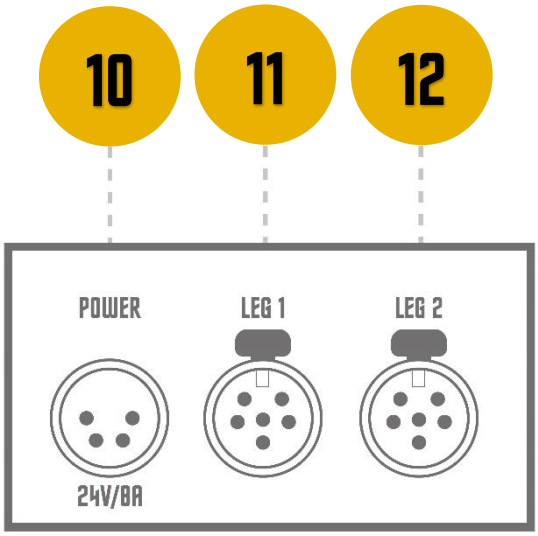
8 Serial

RJ45 Cat 5 Port used when operating the system in Serial mode

9 Ethernet

RJ45 Cat 5 Port used when operating the system in Network mode

Leg Controller (RX) – Rear Panel



10 Power

4 Pin XLR power input used with the supplied 24Vdc 8amp switchmode PSU

11 Leg 1

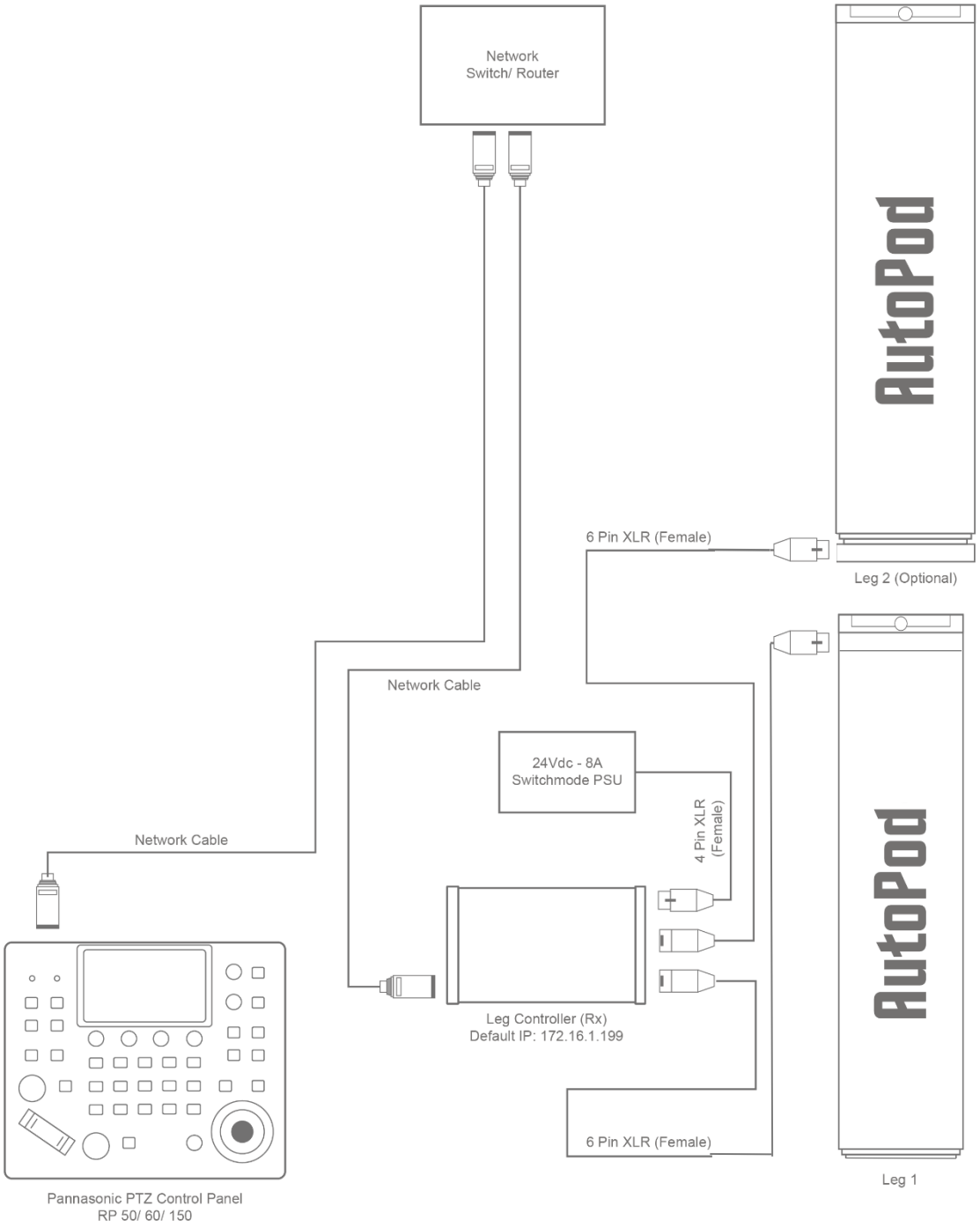
6 Pin locking XLR for connecting the RX controller to elevation unit number 1

12 Leg 2

6 Pin locking XLR for connecting the RX controller to elevation unit number 2. This only functions when the unit is in dual mode and leg 1 is also connected.

Set Up Diagram (Ethernet)

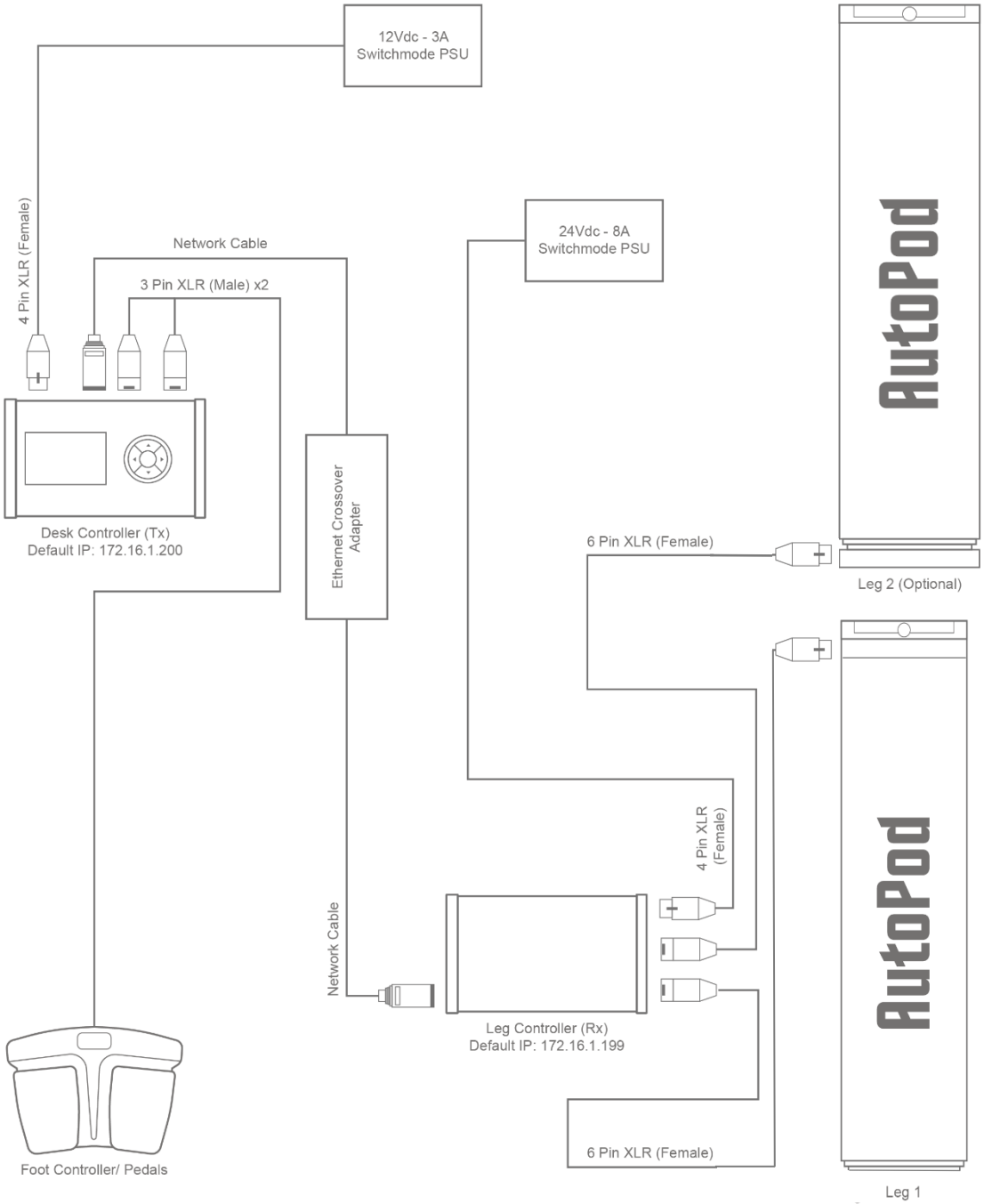
The below diagram outlines how set up your system for control over Ethernet. (In this diagram the system is being controlled using a Panasonic RP150.



Set Up Diagram (Ethernet Crossover/ Point to Point)

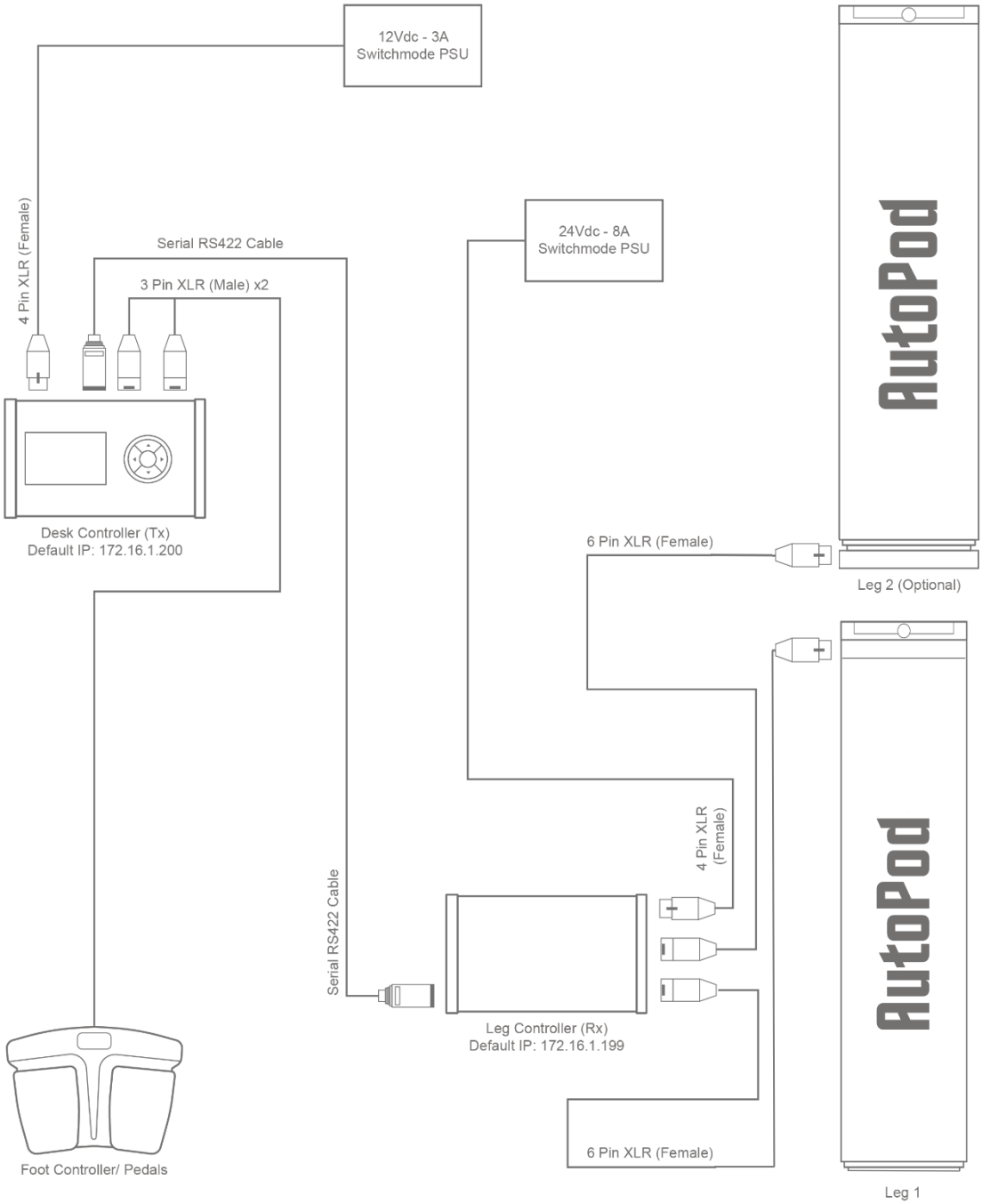
The below diagram outlines how set up your system for control over Ethernet when using the system in a 'Point To Point' mode to directly connect the Tx (Optional Accessory) and Rx without a network switch or router in between the two units.

An example of a 'Crossover' adapter can be found here.

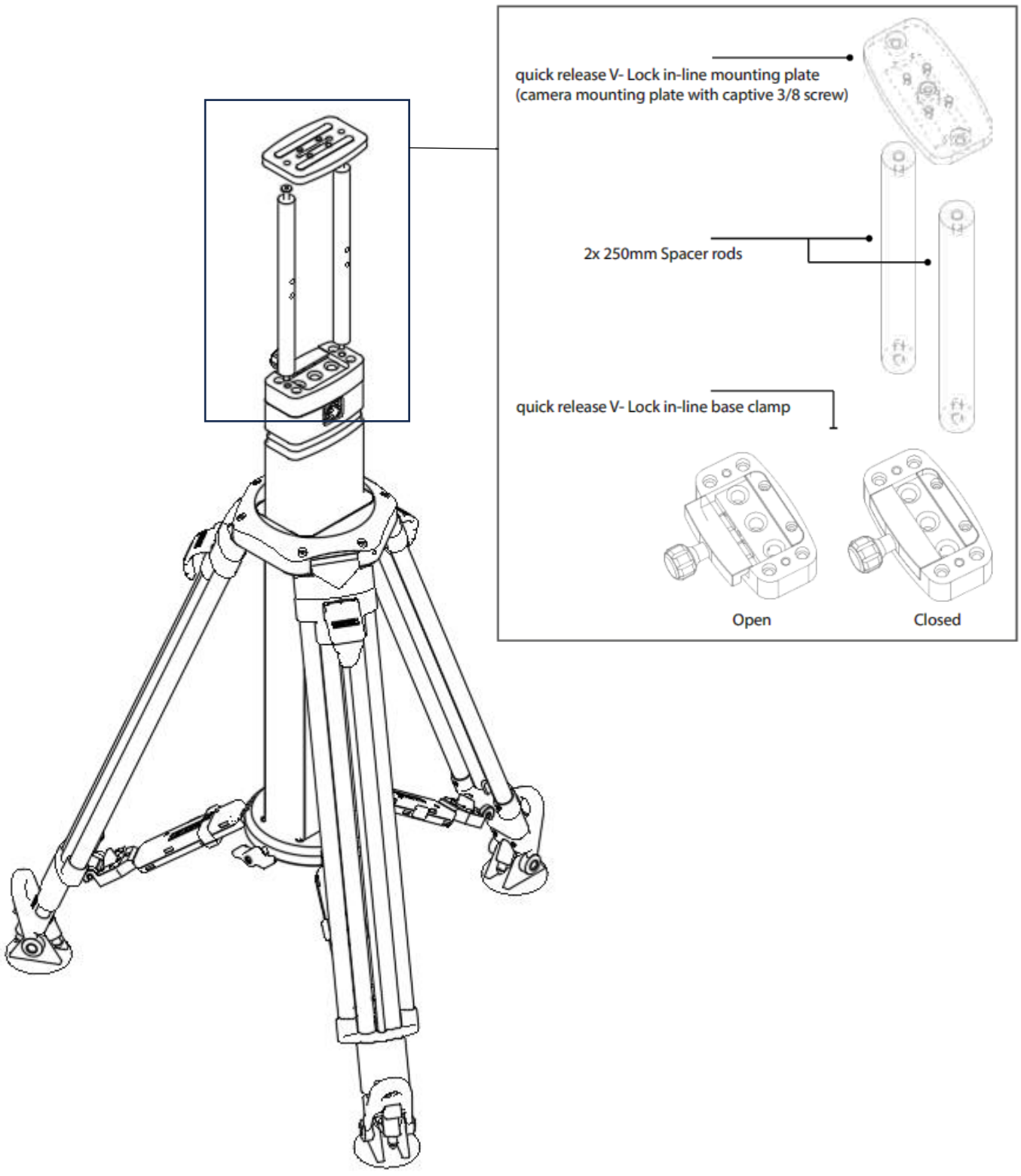


Set Up Diagram (Serial)

The below diagram outlines how set up your system for direct Serial RS422 control using a AutoPod Tx controller box (Optional Accessory).

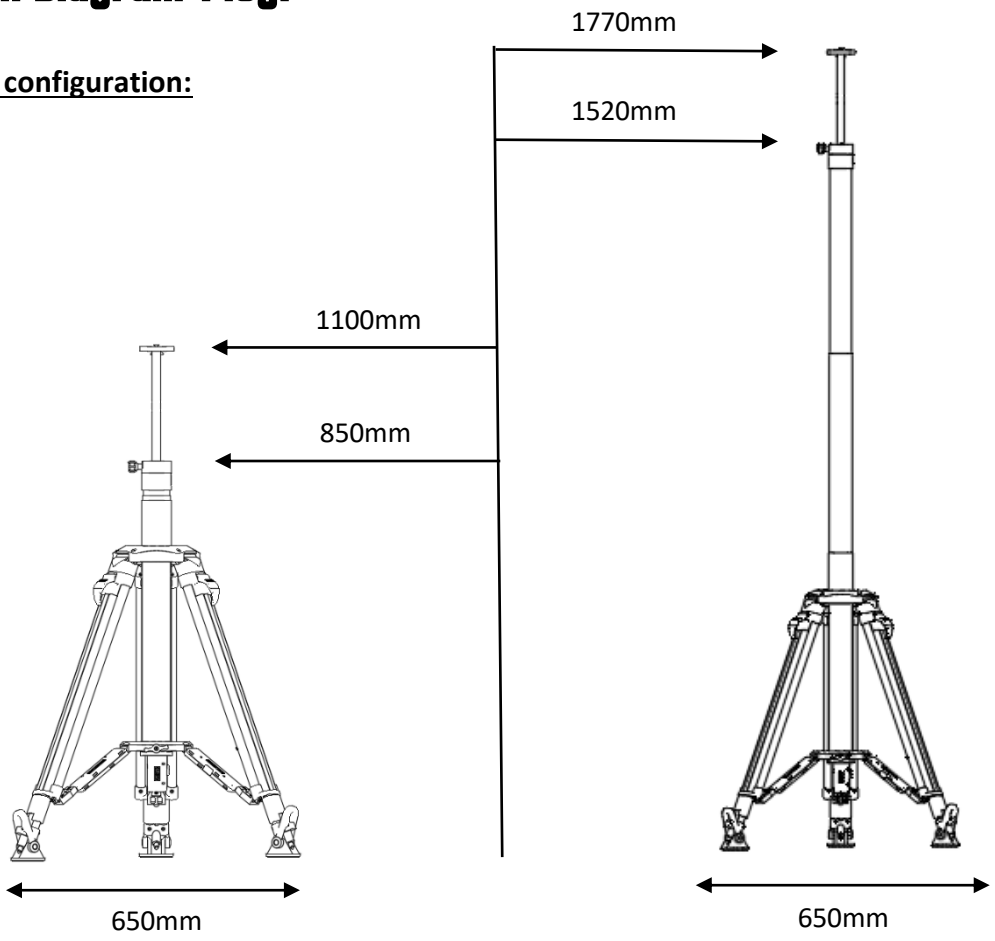


Component Diagram

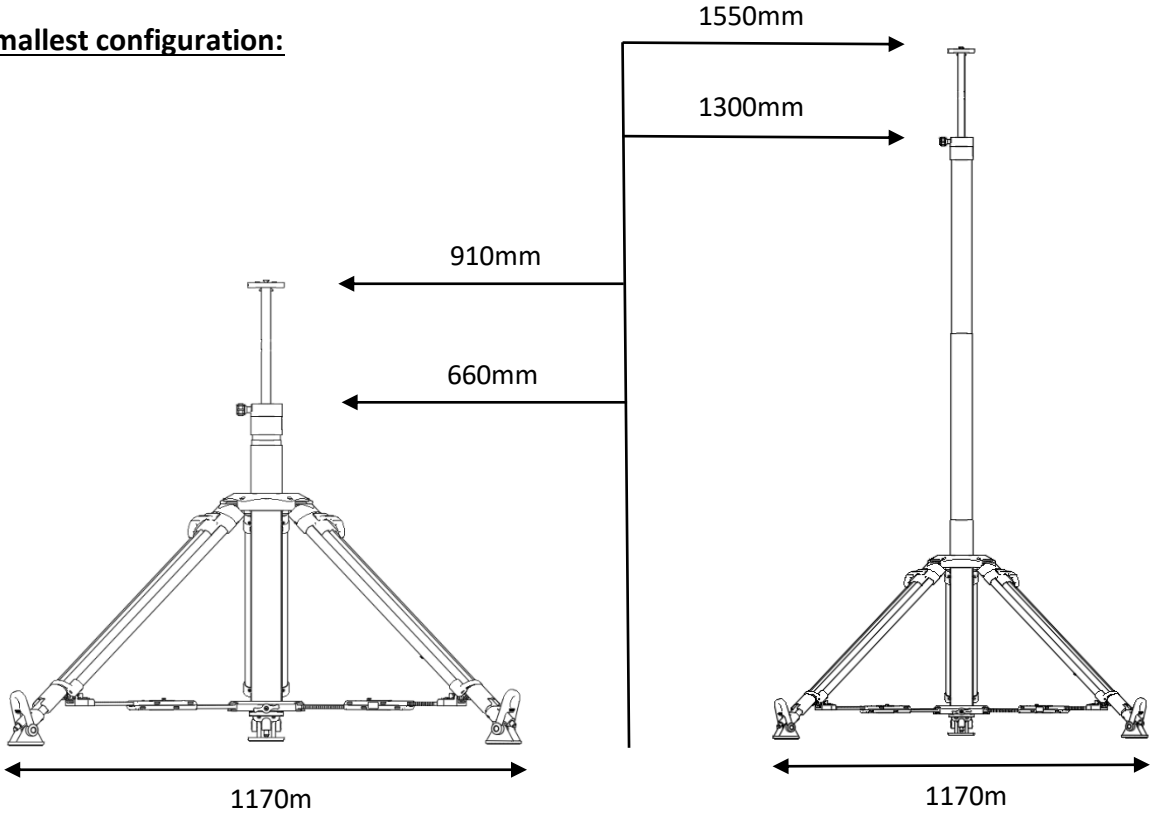


Elevation Diagram 1 leg.

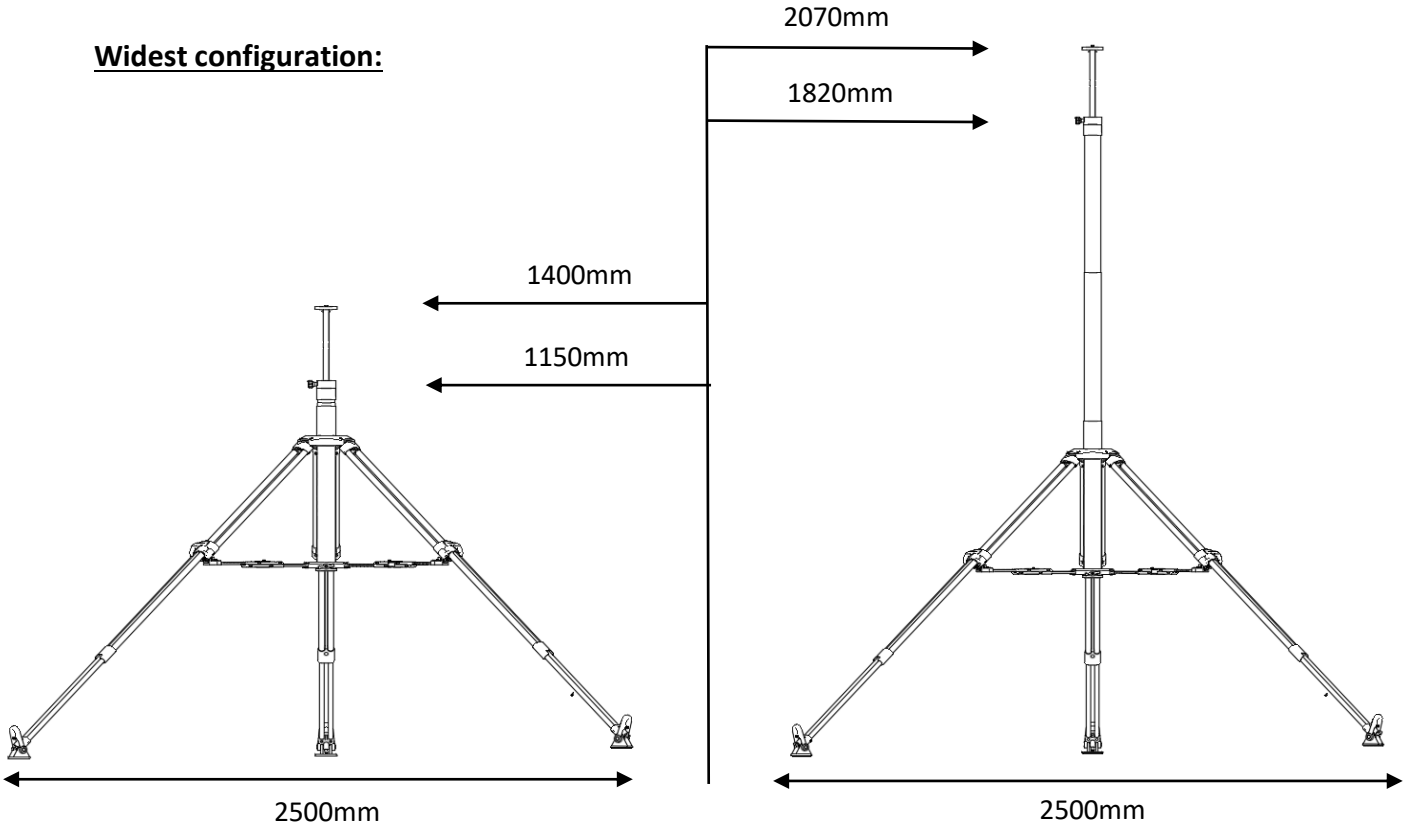
Narrowest configuration:



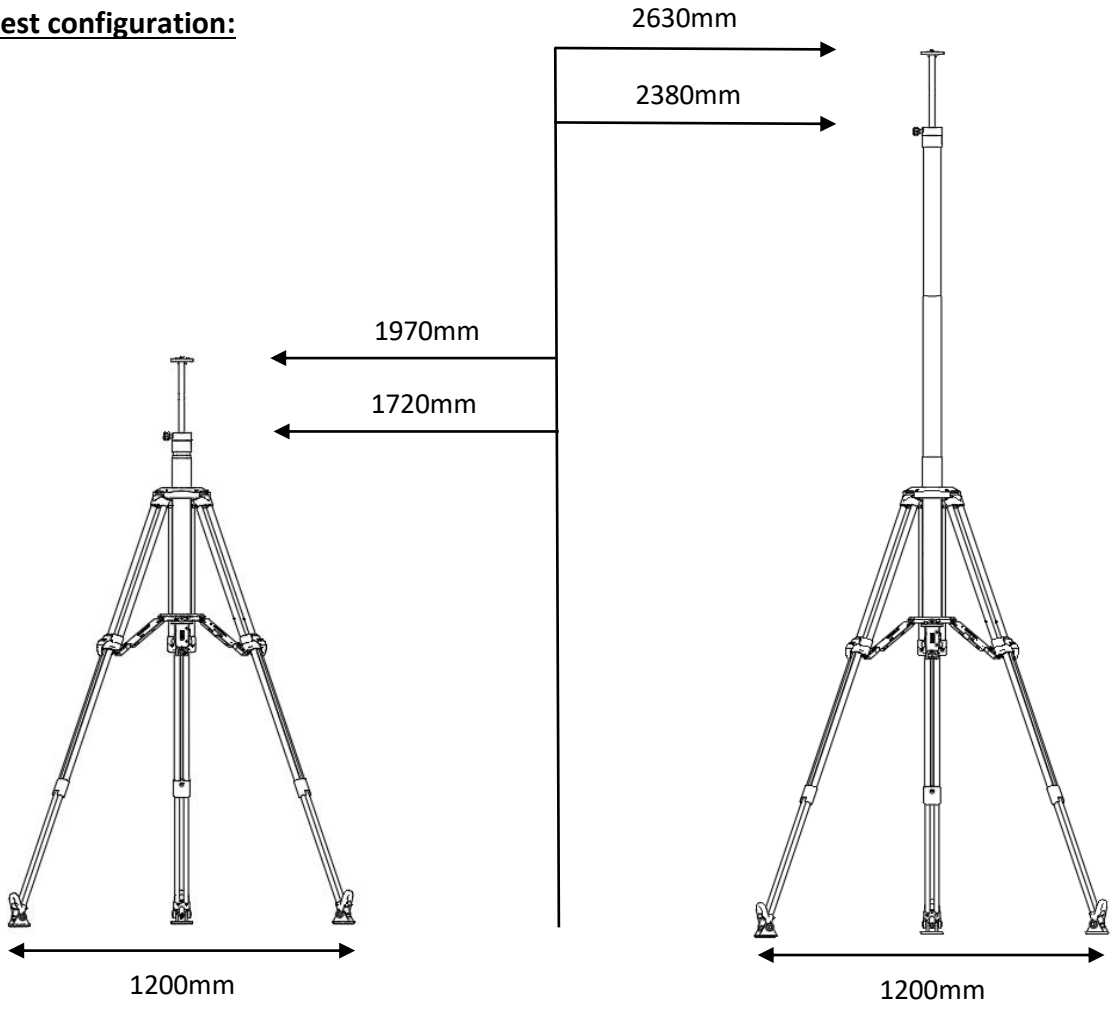
Smallest configuration:



Widest configuration:



Tallest configuration:



Configuring Control with a Panasonic RP150

NOTE

This page details control options using the Panasonic RP150, however the system is also compatible with other Panasonic controllers, and with also has preset recall and Up/ Down control capability via any VISCA enabled control panel, such as the Marshall VS-PTC-IP or Sony RM-IP500.

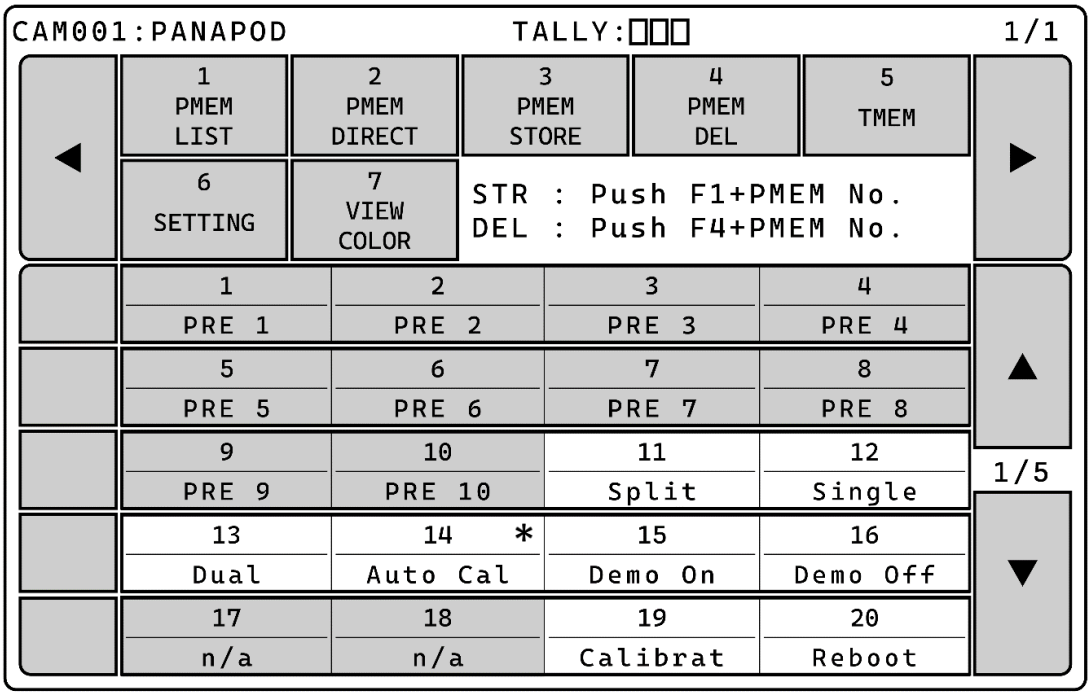
Adding the Leg to the Panel as a Camera Channel

1. Select the 'System' button, then '1 CAMERA' from the top of the screen, and ensure the camera channel you would like your system to is set to the 'LAN' connect mode.
2. Select the '3 MANUAL IP SET' from the top of the screen, and select the camera channel you would like to add your system to.
3. Set the 'Cam IP' to match the IP address of the TX box.
4. You can now use the joystick to control the elevation of the system.

Recalling Leg Presets from the Panel

Once connected to the system with your panel, you can use the Preset Recall function of the panel to recall presets stored on the TX.

1. Select the camera channel that your system is mapped to.
2. Select the 'PMEM/TMEM' button, then select '1 PMEM LIST' from the top of the screen.
3. You will be presented with a list of the stored presets available. Some are labelled with text where they are inbuilt.
4. To recall a present, simply tap it.



***See table below instructing how to turn Auto Calibrate On and Off**

NB. Preset 17 will be Pancake mode in future releases

Please see the table following for details and read carefully to understand how to use them.

Preset	Information	Notes
1-10	Customer Height Presets	Drive PanaPod to required height and press F1 and Preset 1-10.
11	Dual leg split	If you require to drive the legs separately, then leg 1 will be on the tilt of the joystick and leg 2 on the pan.
12	Single leg	If only driving 1 leg it must be plugged into leg 1.
13	Dual leg combined	To drive 2 legs synchronised. This will then automatically re-calibrate or Preset 19 will start flashing and needs to be pressed. If on the Tx box AUTOCALIBRATE is selected, then the legs will re-calibrate as soon as Preset 13 is pressed.
14	Auto-Calibrate OFF/ON	Auto-Calibrate is switched on or off in the Rx box only. To turn Auto-Calibrate on you need to press “Store” and then “Preset 14” to turn off you need to press “Delete” and then “Preset 14”.
15	Show Mode. 1/3 speed. 30 sec wait at top &bottom	The leg(s) will drive the bottom to the top at 1/3 speed with a 30 sec wait at the top. This will turn off after 3 hours.
16	Stop Show Mode	Stop Show Mode. This can also be done by using the joystick or foot pedals.
19	Perform Calibration	**If in any doubt about ANY incorrect functionality, always re-calibrate.** When required or during re-calibration, Preset 19 will flash. If the legs do not drive it is probably because the legs need re-calibrating.
20	Re-Boot	Re-Boot will re-start the RX box but Not the Tx. The Tx will only re-boot if commanded in the Tx.

Speed Preset Settings

The speed the leg(s) travel in between the presets can be set two ways.

1. Through the menu on the Tx box OLED display
2. Using the IRIS knob on the Panasonic panel.

These will synchronise.

NOTE: If you leave the speed setting showing on the Tx OLED display and then you set the speed using the IRIS, the next time you click OK on the Tx box to come off the speed setting, the speed will revert to that setting NOT the IRIS setting. There is currently no 'back' function.

Height Limit Settings

Another interesting function is you are able to set a height upper and lower limit so the PanaPod and camera do not go through the roof!

1. Drive the Elevation(s) to the required height.
2. Press the Function button on the RP-150
3. Select PTZ Info1
4. Select Line 2 and by twisting the F1 knob set the LIMIT UP to ON and then press the F1 knob to save.
5. Repeat for lower limits, using the F2 knob if required.
6. If you do a reboot or turn the power off to the PanaPod, you will lose these limits.

Adding the Leg to a Camera Channel with Extension Control Mode

This option allows you to control the elevation of the leg with the zoom rocker on the joystick, whilst simultaneously using the joystick and standard zoom rocket to control the camera.

1. Select the 'System' button, then select '10 EXT CONTROL' from the top of the screen.
2. On the top row of options, select the camera that you want to pair with the control of the system. Then set the 'EXT CON' mode to 'Advanced'.
3. If you wish to store and recall presets for the system as well as the camera, select the 'EXT PMEM' mode to 'On'.
4. On the second row, set the 'Ext IP' to the IP of the system's TX box.
5. On the third row, select the 'UPLOAD' function, and press yes/ confirm to apply the IP configuration.

In order to utilise this functionality, you will also need to ensure the Joystick's zoom rocker is enabled.

To do this:

1. Select the 'Maintenance' button, then select the '2 RP SETTING' from the top of the screen.
2. On row 2, set the 'Z/F Rocker' mode o 'ZOOM'.
3. On row 2, set the 'ROCKER MD' mode to 'ENABLE'.

When selecting the channel assigned to the PTZ Camera on the panel, you will now be able to use the zoom rocker on the joystick to control the systems elevation.

NOTE

At the time of writing, the RP150 only supports the use of extension control on one camera channel. This functionality is expected to be expanded in the future.

Recalling Leg Presets from the Panel in Extension Control Mode

Once extension control is configured, recalling a preset on the camera channel will also recall the corresponding preset on the elevation unit.

Same procedure than with a single camera,

To STORE, press F1 + Preset Number
To recall, press the Preset Number
To Delete, press F4 + Preset Number

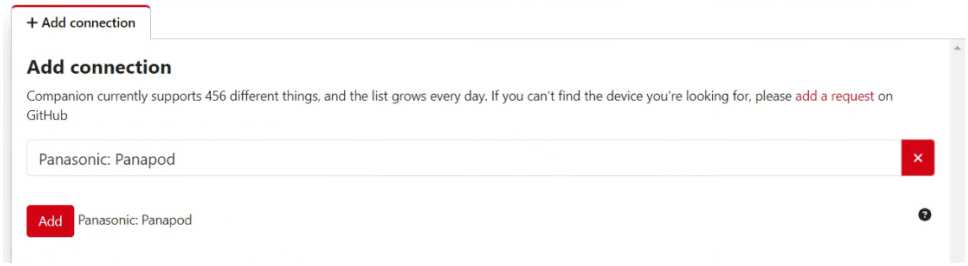
Recall Preset Names:

If the Autopod+ preset names do not initially appear they can be brought into the controller.

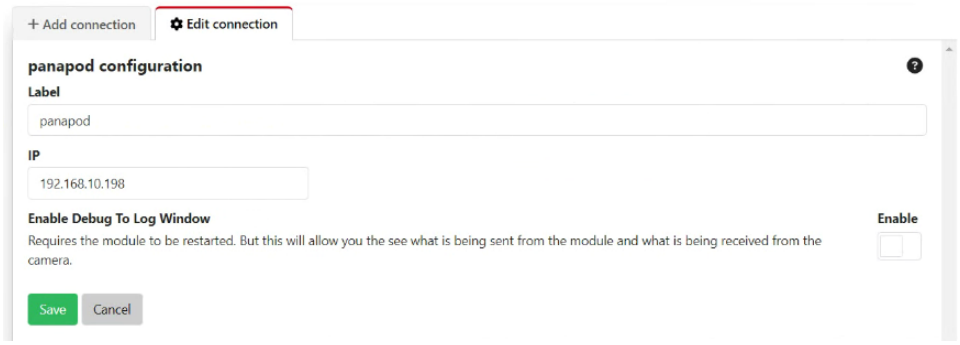
1. Press PMEM/TMEM
2. Press SETTING
3. Scroll to 5
4. Rotate f4 to change PM NM GET to Yes
5. Click f4
6. Press Yes on screen.
7. The names will now be recalled from the Autopod+ onto the PMEM list.

Configuring Control with Bitfocus Companion

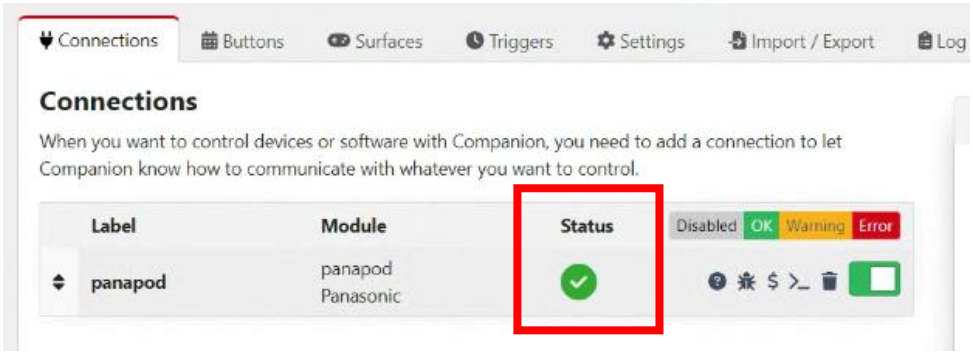
1. Inside Companion, search for the ‘Panasonic: Panapod’ connection, and click ‘Add’.



2. Set the ‘IP’ the RX IP. The default value for this is 192.168.10.198. Select ‘Save’.



The connection status will show up as a green tick to indicate that Companion is successfully communicating with the target IP address.



You will now be able to select from a wide range of commands and apply them to buttons as you would with a PTZ control instance, to provide the capability to build your own custom control panel for your elevation leg.

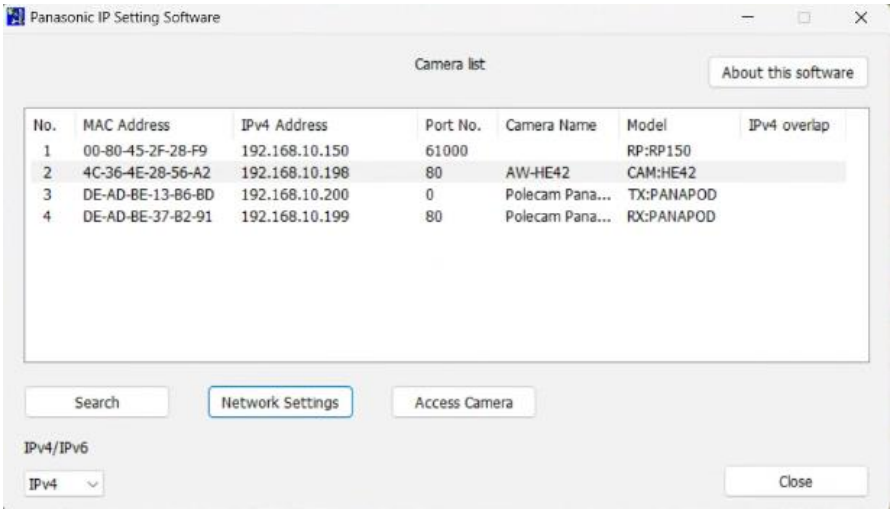
Updating your systems firmware

To update your systems firmware, visit www.polecam.com/support for the update tool and a PDF with detailed instructions.

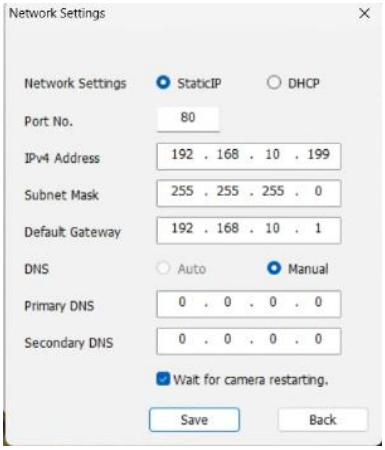
Updating your TX and RX IP Address

The easiest way to update the IP address of your TX and RX is using the Easy IP software, on a laptop connected to the same network.

1. Launch the software, where you will find a list of all devices on the network the laptop is connected to.



2. Select the device you wish to change the IP of, and click on the network settings button.



From here you can ammend the network settings of the device to match your desired settings.

3. Once you have input the desired settings, press save. The device will perform a restart, after which the IP settings will have been amended as set.

IMPORTANT

Remember to change the IP of both your TX and RX units. Once this has been changed, please also remember to change the target output IP in the network settings menu on the TX.

Desk Controller (TX) (Optional Accessory)

Dimensions	165 x 105 x 55 mm
Weight	0.44 kg
Voltage In	110/230V AC via supplied switchmode PSU – 12Vdc @ 3 amp
Power Consumption *(in standby)*	TX 2 W

Connections are made using high quality Neutrik industry standard XLR connectors.

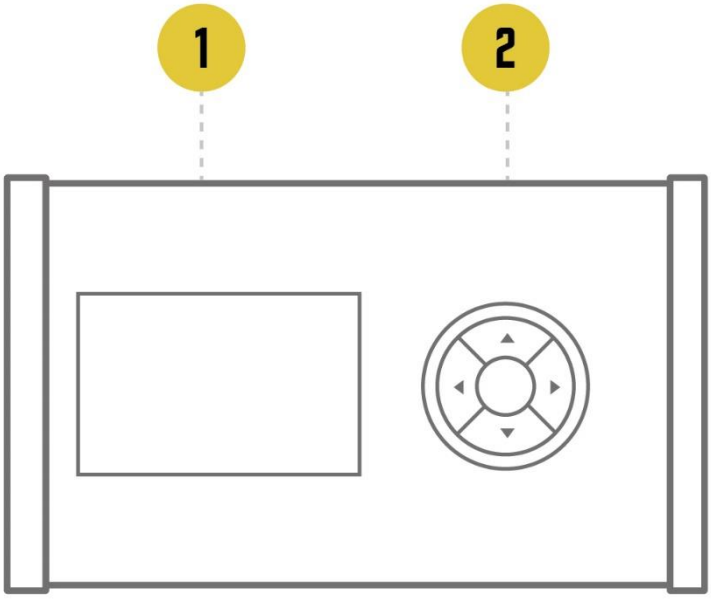
AutoPod Foot Pedals Pro (Optional Accessory)

(available as optional upgrade if you own old style pedals)

Footprint	210 x 95 mm (individual pedal, excludes cable)
Height	50mm (individual pedal)
Weight	2.5 kg (individual pedal)

Adjustable stop points, top speed limiter and switchable between toe down off and on.
For more information read page 35.

Desk Controller (TX)– Top Panel



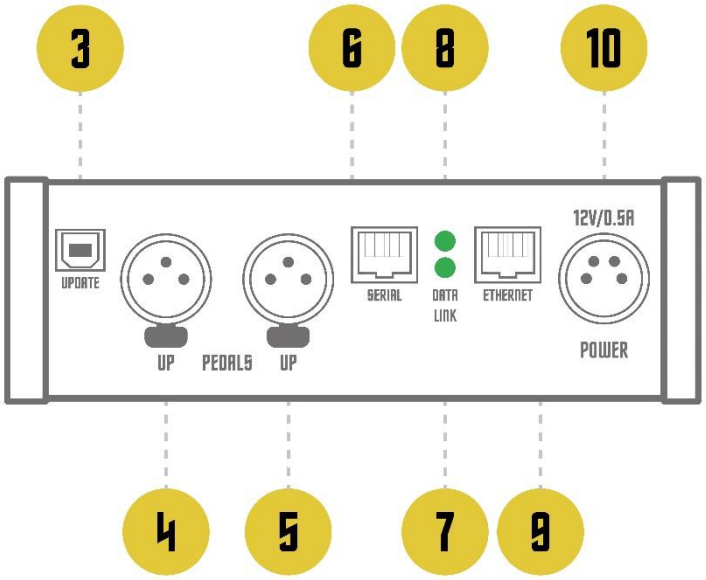
1 Display Screen

This provides the operator with system version, status and current settings as set using the Navigation keypad menu structure as shown.

2 Navigation Keypad

Enables the operator to select the required system features and functions.

Desk Controller (TX) – Rear Panel



3 Update

USB type B enables future system updates to be loaded to the controller.

4 Pedal Up

3 Pin locking XLR enables the elevation unit/s to be raised using the proportional variable speed pedals.

5 Pedal Down

3 Pin locking XLR enables the elevation unit/s to be lowered using the proportional variable speed pedals.

6 Serial

RJ45 Cat 5 Port used when operating the system in Serial mode.

7 Link

Green LED illuminates when a confirmed connection between the TX and RX units (ethernet only).

8 Data

Green LED illuminates/flashes only when data is sent between the TX and RX units (ethernet only).

9 Ethernet

RJ45 Cat 5 Port used when operating the system in Network mode.

10 Power

4 Pin XLR power input using the supplied 12Vdc 3amp switchmode PSU.

Desk Controller (TX) Menu Structure

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MENU
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> Pedal Mode
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```

> Pedal Mode

Select between:

< Preset >

In this mode, the pedals will recall the presets determined under the **Up Pedal Preset** and **Down Pedal Preset** selected in the lower section of the menu.

< Tilt >

Allows the proportional variable speed control pedals to elevate and lower the elevation unit(s). The elevation units will adjust elevation according to the pressure applied to the pedals.

> Trim Down Pedal

Used to calibrate the down pedal. To use this function, first position the down pedal into the neutral position (This is the position the pedal will be in when the legs are not being driven) and press **OK**. Wait till it has completed the release calibration and then depress the down pedal fully when instructed (This is the position the pedal will be in when the legs are driven at their fastest). When complete the screen will display the calibrated **zero** and **maximum** levels of the down pedal until you press **OK**. Make sure you position the pedals back into the neutral position before pressing **OK** to ensure the legs wont instantly move after pressing **OK**.

> Trim Up Pedal

Used to calibrate the up pedal. To use this function, first position the up pedal into the neutral position (This is the position the pedal will be in when the legs are not being driven) and press **OK**. Wait till it has completed the release calibration and then depress the up pedal fully when instructed (This is the position the pedal will be in when the legs are driven at their fastest). When complete the screen will display the calibrated **zero** and **maximum** levels of the up pedal until you press **OK**. Make sure you position the pedals back into the neutral position before pressing **OK** to ensure the legs wont instantly move after pressing **OK**.

> Output Protocol

Select between:

< Ethernet >

This mode enables an indirect cable/ “IP” link between the TX and RX units using RJ45 and Cat5 Cable. This enables an infinite operating range, dependant only on the size of the deployed IP network you are connecting to.

< Serial >

This mode enables a direct cable link between the TX and RX units using an RJ45 and Cat5 cable. Serial is 422 and (subject to cable quality) has a suggested operating range of 200m.

> Network Config

When using the system in Ethernet mode, this allows you to configure the following settings:

- IP (IP Address of the Desk Controller Unit)
- NM (Net Mask, should match other devices on your network, generally this should be set to 255.255.0.0)
- GW (Gateway, the IP address of your networks router)
- OP (IP Address of the Leg Controller Unit)

The system default values for this are as displayed below, and are recommended by Panasonic:

- IP: 192.168.10.200
- NM: 255.255.0.0
- GW: 192.168.10.1
- OP: 192.168.10.199

Please note that you must navigate first to the first character in the left hand column (IP,NM,GW,OP), then scroll right to the desired address change, then use the **Up** and **Down** keys to adjust the digit count. Once completed, exit the menu with **OK**.

> Run Calibration

This action ensures that the elevation unit(s) are reset to a known position and factory setting. Subject to where the elevation unit(s) are within their stroke cycle, this command will lower the units to their lowest cycle point, then raises the unit(s) to the know factory calibration level. When your system will display the following:

Running Calibration
Do Not Touch
“Rome Wasn’t Built in A Day”

Wait until the menu screen displays normally, and the system is fully calibrated.

> Reboot

Highlight this option and press **Ok** to reboot the system

> Auto Calibration

Configure whether the system automatically calibrates when it boots.

When **Enabled** the system will auto calibrate when it boots.

WARNING:
Automatic motion will
occur.
This may present a
hazard!

When **Disabled** the system will require manual calibration before it can be operated.

IMPORTANT
Automatic robotic movement can be dangerous. We strongly recommend this option is disabled unless you require it for a specific purpose.

> Control Mapping

Select between:

< Single Unit >

Only the leg one port will output control data, the leg two port does not work.

< Dual Unit Combined >

Both legs operate at the same time. The pedals or the PTZ joystick tilt axis will control both leg one and leg two with the same elevation adjustment.

< Dual Unit Split >

The first leg is controlled by the 'Tilt' axis, whilst the second leg is controlled by the 'Pan' axis. In this mode the pedals will only control leg one, as they are mapped to control the 'Tilt' axis. When using a PTZ controller, you can use the 'Tilt' or 'Y' axis to adjust the elevation of Leg 1, and the 'Pan' or 'X' axis to adjust the elevation of Leg 2.

> Start Demo Mode

This initiates the factory set pre-programmed "Show Mode" which raises and lowers the elevation unit/s at 1/3 speed with a 30 second delay at the top of it's stroke before it lowers with a 30 second delay at the bottom of it's stroke before raising again.

> Stop Demo Mode

Ends the ‘demo mode’ as outlined above.

> System Orientation

Select between:

< Normal >

In this mode, the leg will ascend or descend as directly commanded by any controller sending an “Up” or “Down” command.

< Inverted >

In this mode, the leg will respond to commands from any controller in the inverse fashion. For example a controller sending an “Up” command to the leg would cause the leg to contract. This mode is useful for applications where the leg may be inverted.

> Preset Store

The RX Unit / Leg Controller unit implements 20 presets numbered from #1 to #20, which can be recalled from Panasonic RP50/ 60/ 120/ 150 panels. However, only presets #1 to #10 are available for preset store and recall of the elevation unit positions. The other 10 presets are mapped to special functions which are triggered on preset recall thus:

Preset 11	Set control mapping to Dual Leg Split Mode
Preset 12	Set control mapping to Single Leg Split Mode
Preset 13	Set control mapping to Dual Leg Combined Mode
Preset 14	Toggle auto calibration, specifically useful for when using the system without the TX unit.
Preset 15	Show Mode - 1/3 speed with a 30 second delay between elevation and lowering cycle and runs continuously until cancelled.
Preset 16	Stops Show Mode.
Preset 17	Show Mode - 1/3 speed with a 45 second delay between elevation and lowering cycle and runs continuously until cancelled.
Preset 18	Show Mode - 1/3 speed with a 60 second delay between elevation and lowering cycle and runs continuously until cancelled.
Preset 19	Performs Factory Calibration.
Preset 20	Performs a soft reboot for both the TX and RX units. If problems persist then a hard reboot is advised.

> Preset Recall

Select the desired preset number and press **Ok** to select directly recall that preset.

> Preset Clear

Select the desired preset number and press **Ok** to clear the preset memory position for the leg.

> Preset Speed

Select the speed at which all presets are recalled. This determines leg movement speed when travelling to a recalled preset. Value from 0% to 100% can be selected in increments of 1%.

> Down Pedal Preset

When the **Pedal Mode** is set to **Preset** (as outlined above), this can be adjusted to select which preset the Down pedal recalls.

> Up Pedal Preset

When the **Pedal Mode** is set to **Preset** (as outlined above), this can be adjusted to select which preset the Up pedal recalls.

> Startup Logo

Select between:

< Animated >

Logo animates on screen briefly following boot of the Desk Controller (Tx).

< Static >

Logo displays static on screen briefly following boot of the Desk Controller (Tx).

< Disabled >

Polecam does not display on screen following booth of the Desk Controller (Tx).

> Display Timeout

Set the amount of time before the display ‘times out’ or turns off. Value between 0 seconds and 240 seconds can be selected. Factory default for this setting is 60 seconds, and we recommend this duration to ensure display longevity and quality.

> Reset To Defaults

This command returns the system back to known factory settings, the user will need to reset any previously stored settings.

> TX Version

Displays the version of firmware the Desk Controller (Tx) unit is currently running.

> RX Version

Displays the version of firmware the Leg Controller (Rx) unit is currently running.

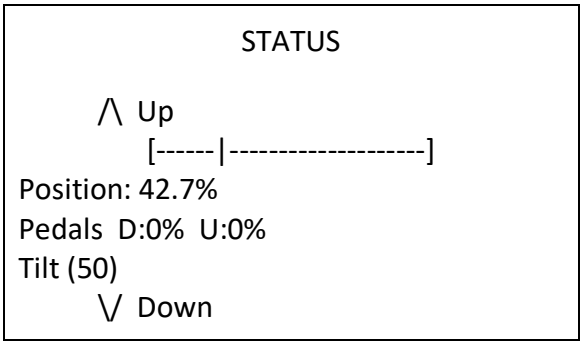
> Status

Displays key information on the device including Current Leg Position (%) and the state of the pedals.

The indicator line shows where the leg is in it's stroke length. On the left is at the bottom and on the right is at the top.

Select **Left** and **Right** to toggle the bottom line of the status screen between the current Tilt input value (50 is neutral, 0 is 100% down speed and 100 is 100% up speed), and the presets that the Up and Down pedal are currently set to recall.

Using the **Up** and **Down** buttons will drive the leg up and down, mimicking the **Up** and **Down** buttons on the Leg Controller (Rx) unit. These buttons are programmed to include soft stops and starts, as well as at the stroke end stops.



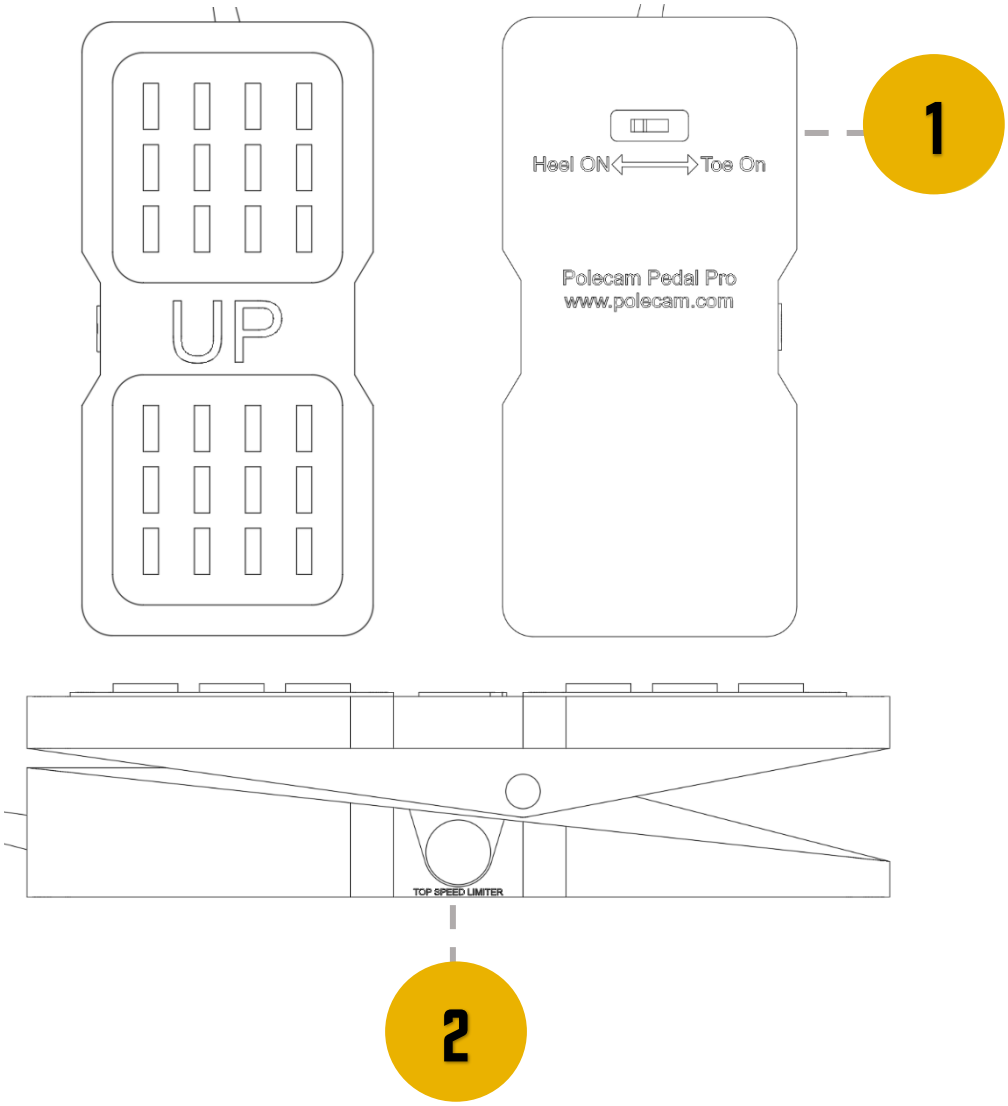
In any menu, you can press and hold the **Ok** button for two seconds and you will be taken directly to the status screen.

> Language

Select language that the menu system displays in. Currently you can select between:

- English
- French
- German
- Spanish
- Italian
- Dutch
- Swedish
- Norwegian

AutoPod Plus Foot Pedals Pro



1

Heel On Toe On Switch

The heel on toe on switch allows you to change which end of the pedal needs to be pressed to activate it. In "Heel On mode" depressing the bottom on the pedal will activate it and in "Toe On" mode pressing the top of the pedal will active it.

2

Top Speed Limiter

The "Top Speed limiter" will allow you to set a speed limit whilst using the pedals. Rotation the knob clockwise will increase the top speed limit and rotating the knob anticlockwise will decrease the top speed allowed whilst suing the pedals.

IMPORTANT

Please check the position of the "Heel on Toe On Switch" and the "Top Speed Limiter" before plugging in your pedal. Always have the pedals in the neutral position when they are plugged in.

Declaration of Conformity

Polecam Limited
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CE

Hereby declares that the product know as PanaPod which is manufactured, assembled and marketed by Polecam Limited in the United Kingdom, conforms with the essential requirements of the:

EU Machinery Directive (2006/42/EU)
EMC Directive (2014/30/EU)
Low Voltage Directive (2014/35/EU)
RoHS2 (2011/65/EU)

Environmental considerations
This product must not be disposed of with general household waste.

In some countries or European Community Member States, separate collection systems have been set up to handle the recycling of electrical and electronic waste products. By ensuring this product is disposed of correctly, you will help prevent potentially negative consequences for the environment and human health.

Recycle where possible.

In countries outside the EU:
Dispose of this product at a collection point for the recycling of electrical and electronic equipment according to your local government regulations.

RIG DETAILS HERE

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