

# ***SPIRIT***

*Let Spirit moves you*

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**FULL RANGE OF ROBOTIC SYSTEMS  
FOR BROADCASTING AND VIRTUAL PRODUCTION**

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**DOLLY**

**SLIDE**

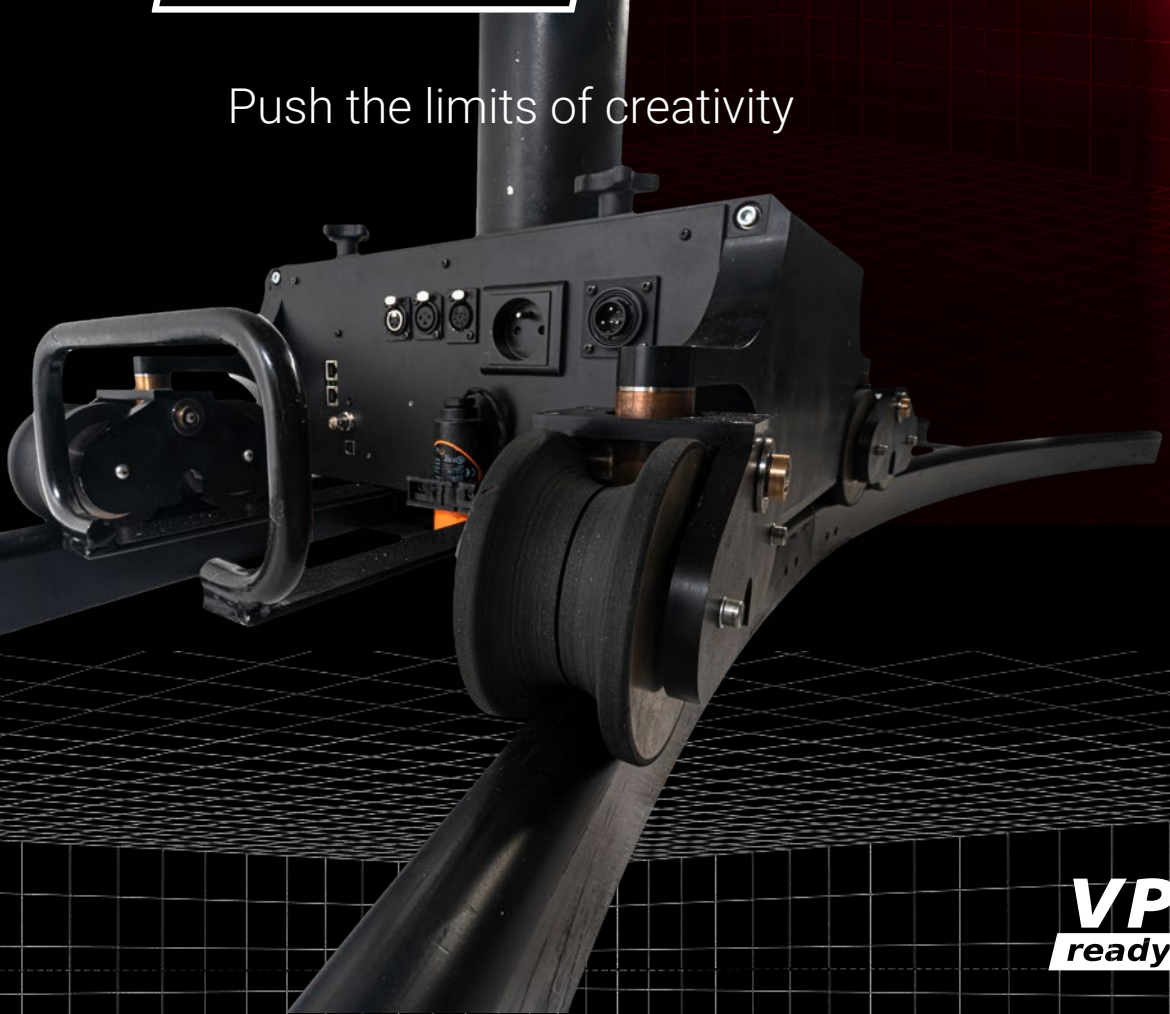
**LIFT**

**HEAD**

# CUSTOMIZABLE MOTORIZED TRAVELING

## **SPIRIT** **DOLLY**

Push the limits of creativity



**VP**  
**ready**

SPIRIT DOLLY is a versatile rail system that allows you to create the smoothest shots with the most flexibility both for indoor and outdoor events.

With our versatile, flexible rail based configurations DOLLY can be used with rigid rails (straight or curved) or a flexible rail which attaches directly to the ground.

All speed, acceleration, and travel parameters are adjustable depending on your needs.

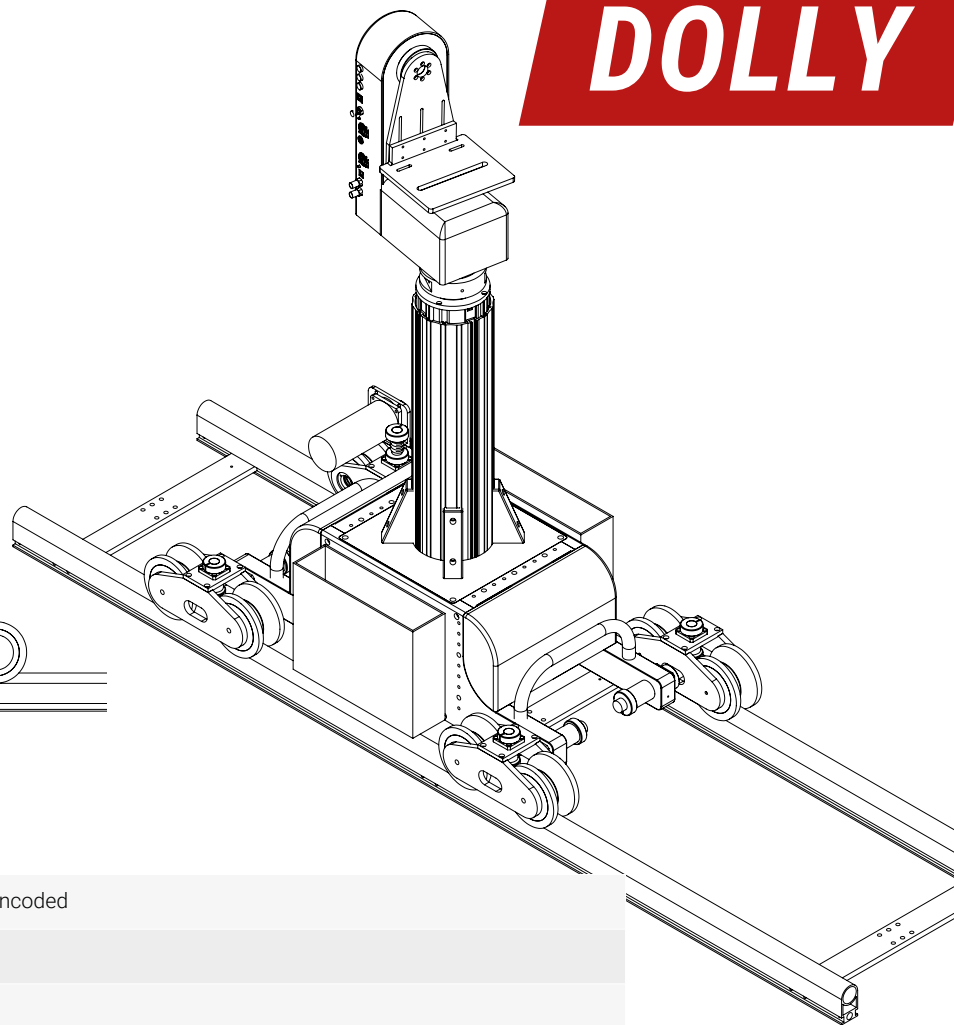
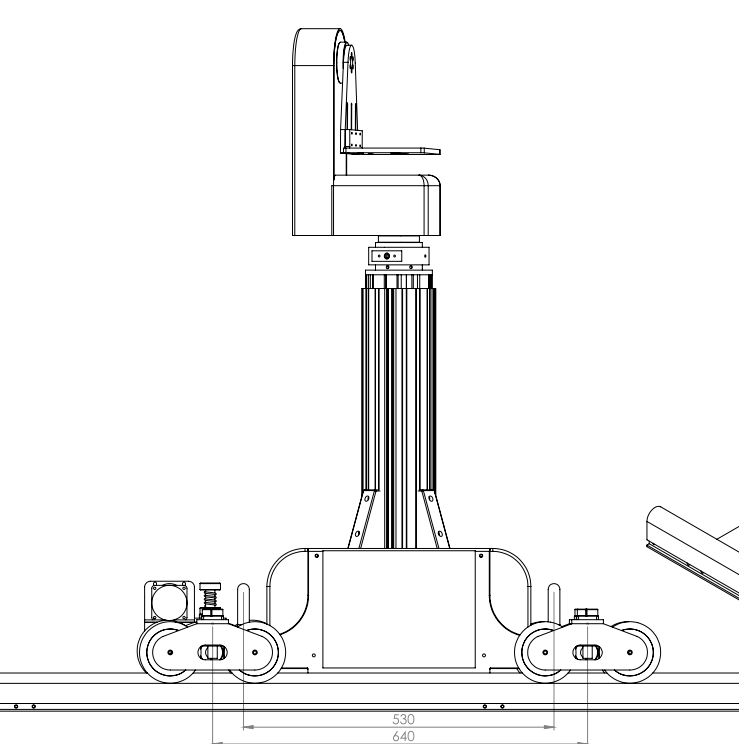
With a telescopic column, SPIRIT Lift, and a SPIRIT Head on top of it, you get a complete traveling system for achieving breathtaking shots.

**SPIRIT**

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**multiCAM**  
systems

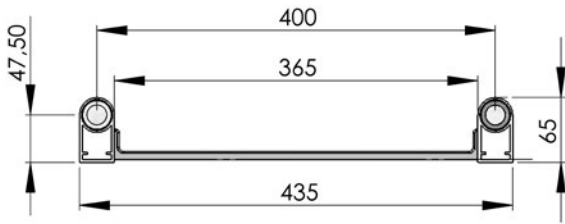
# DOLLY



## Technical specifications

Encoder	Incremental / Track Encoded
Resolution	1505 counts/cm
Accuracy	0.000664 cm
Travel	14 Km
Max Velocity	1.33 m/s
Torque	9.77 Nm
Remote control	IP with Web interface, SPIRIT Joystick, multiCAM Suite, UDP (SPIRIT protocol)
Genlock IN	Black Burst / Tri-Level
Genlock OUT	SDI Loop
Compatibility	SPIRIT Lift / SPIRIT Head
Tracking	Free-D (encoding data with AR pack)
Network	2x RJ45 (Dolly/Lift+Head)
Power IN	24Vdc 15A
Power OUT	12Vdc 5A (XLR 4 points for camera) 24Vdc (XLR 3 points for HEAD) 220Vdc (PC)
Power OUT	12Vdc 5A (XLR 4 points for camera) 24Vdc (XLR 3 points for HEAD) 220Vdc (PC)
Dimensions	73 cm (W) x 48 cm (D) x 21 cm (H ) On rails: 26.5 cm (H) Cabling margin to add: 30 cm
Weight	35 kg

## RAILS



### Straight sections

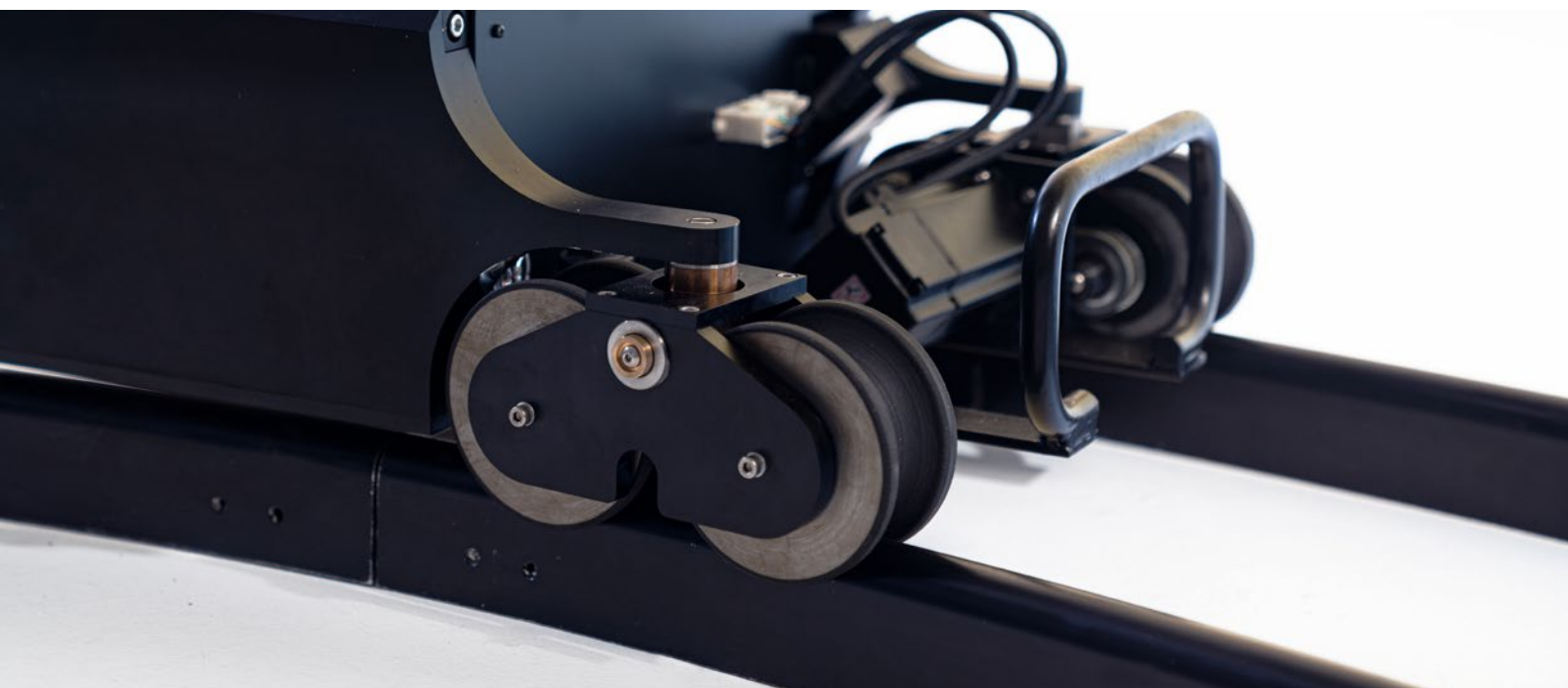
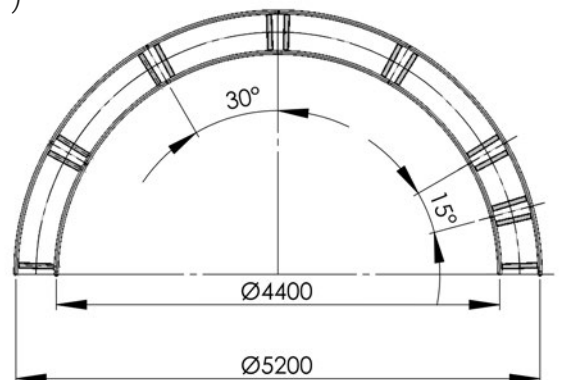
We can custom make any length, but usually we use two section lengths: 90cm and 1m80.

### Curved sections

Curved rails are available in different sizes and curvatures to suit a variety of track layouts:

- 2200-2600 (15°, 30°)
- 2600-3000 (15°, 30°)
- 3000-3400 (30°)
- 3400-3800 (15°, 30°)
- 3800-4200 (15°, 30°)
- 5000-5400 (11,25°, 22,5°)
- 15000-15400 (4,5°, 5°)

If needed, our engineering team can design custom rails to meet your specific requirements.



# MOTORIZED TELESCOPIC COLUMN

## **SPIRIT** **LIFT**

Elevate your perspective

SPIRIT LIFT is a motorized column that raises the level of your productions.

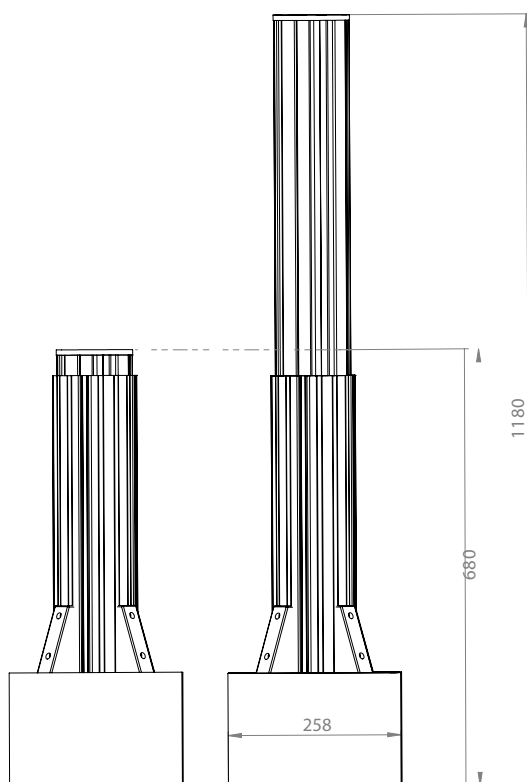
With a maximum extension of 110cm, the column expands the range of your shooting capabilities and re-energizes a classic PTZ device.

Coupled with a DOLLY and a HEAD, it brings the creativity of a crane with a small footprint on the ground!

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## Technical specifications

<b>Models</b>	Head / PTZ
<b>Encoder</b>	Incremental
<b>Resolution</b>	1 638 counts/cm
<b>Accuracy</b>	0.00061 cm
<b>Travel</b>	44 cm
<b>Max Velocity</b>	0.086 m/s
<b>Torque</b>	100-150 Nm
<b>Elevation</b>	70-112 cm
<b>Remote control</b>	IP with Web interface, SPIRIT Joystick, multiCAM Suite, UDP (SPIRIT protocol)
<b>Genlock IN (*)</b>	Black Burst / Tri-Level (External box or through Dolly XLR connection)
<b>Compatibility</b>	SPIRIT Dolly / Head
<b>Tracking</b>	Free-D (encoding data with AR pack)
<b>Network (*)</b>	1x RJ45 (External box or through Dolly XLR connection)
<b>Power IN</b>	24Vdc 5A
<b>Power OUT (*)</b>	24Vdc (External box: XLR 7 points for HEAD or PTZ)
<b>Dimensions</b>	24 cm (W) x 12cm (D) Height: 38 cm (M) / 48 cm (L)
<b>Weight</b>	6.5 kg / 7.2 kg

(\*) A direct connection between Lift and Dolly includes Genlock, Power and Network when combined. If Lift is used without Dolly, an external box is dedicated for connections.

# ROBOTIC HEAD FOR BROADCAST CAMERAS

## **SPIRIT** **HEAD**

Remote control advanced camera gears



**VP**  
**ready**

SPIRIT HEAD our line of robust, precision designed remote heads that support a camera/optics pair weighing up to 12 kg (26 lbs).

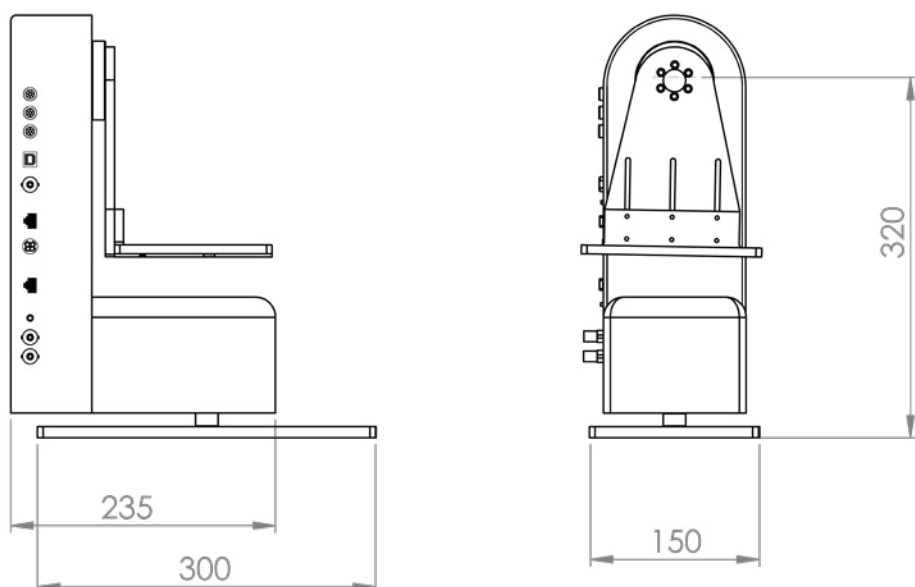
All the camera and optical unit hardware is contained in one area of the unit with a variety of connector options available.

SPIRIT HEAD comes in different sizes to fit various camera units.

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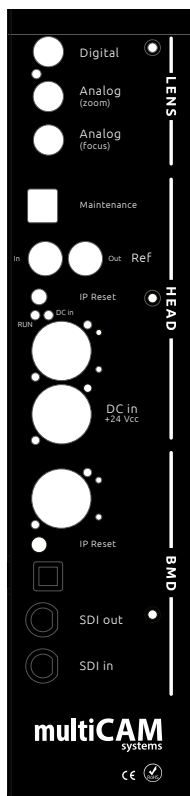


(SPIRIT HEAD M Version)

## Technical specifications

<b>Models</b>	M / L
<b>Encoder</b>	Incremental with Automatic Homing
<b>Resolution</b>	300 000 counts/rev
<b>Accuracy</b>	0.0012°
<b>Pan Travel</b>	720° (Software limited)
<b>Tilt Travel</b>	67.2° (M) / 109.2° (L)
<b>Max Velocity</b>	120°/s
<b>Torque</b>	9.6 Nm
<b>Payload</b>	12kg
<b>Optical Axis Height</b>	320 mm (M) / 420 mm (L)
<b>Remote control</b>	IP with Web interface, SPIRIT Joystick, multiCAM Suite, UDP (SPIRIT protocol)
<b>Blackmagic</b>	SDI in/out + RJ45 (Control)
<b>Genlock IN</b>	Black Burst / Tri-Level
<b>Genlock OUT</b>	SDI Loop
<b>Compatibility</b>	SPIRIT Dolly / Lift / Slide
<b>Tracking</b>	Free-D (encoding data with AR pack incl. lens data for Canon or Fujinon lenses)
<b>Network</b>	1x RJ45 (Head)
<b>Power IN</b>	24Vdc 5A
<b>Dimensions</b>	240 cm (W) x 12 cm (D) Height: 38 cm (M) / 48 cm (L)
<b>Weight</b>	6.5 kg / 7.2 kg

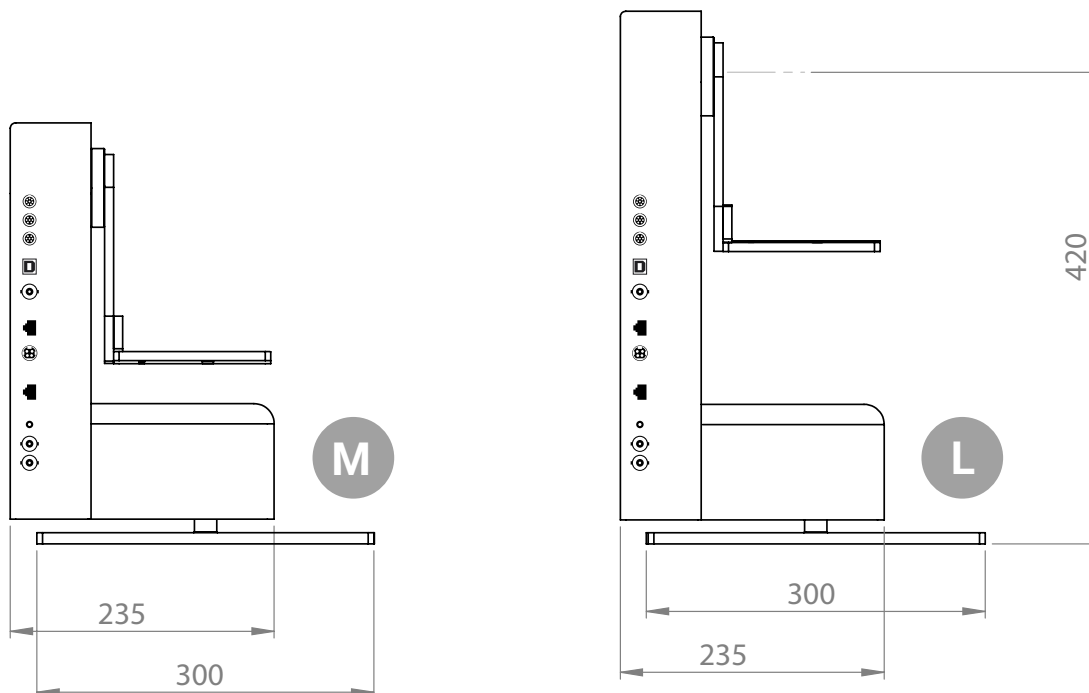
## Multiples connections



1. Canon or Fujinon digital optical control (lemo 8 pts)
2. Analog zoom control and coder (lemo 7 pts)
3. Analog focus control (lemo 7pts)
4. USB port for maintenance
5. Genlock SDI IN + LOOP
6. IP address reset
7. Head command data
8. DC in (XLR 3 pts)
9. Blackmagic camera control data
10. IP address reset
11. Blackmagic camera control via SDI OUT
12. Blackmagic camera control data (SDI IN)

## Two sizes: M, L

SPIRIT HEAD comes in two different sizes depending of camera systems to mount on it.



# MOTORIZED SLIDER

## **SPIRIT** **SLIDE**

Smooth and silent at any speed



**VP**  
**ready**

SPIRIT SLIDE is a compact, slider system exclusively on straight rails. Perfect for OB vans and other semi portable uses.

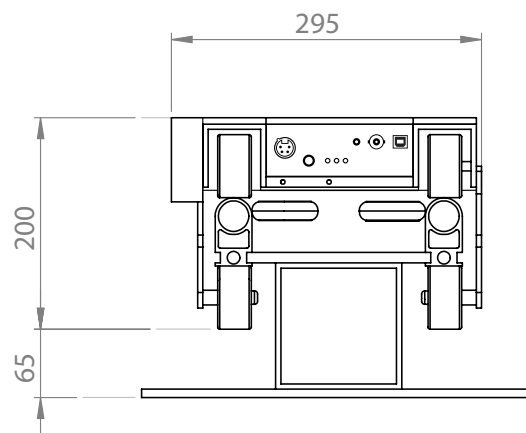
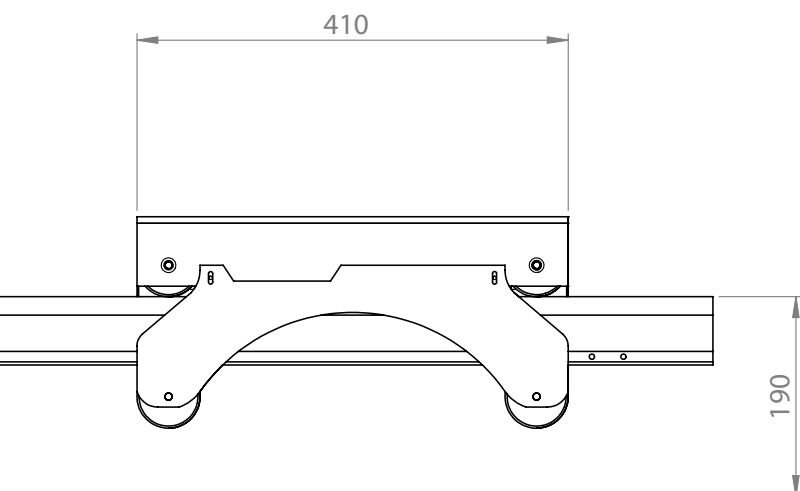
Compact in size, it offers a center distance of only 200mm. Discreet, light, and quiet, it can nevertheless accommodate a robotic head and any load up to 12kg!

A variant of the SLIDE is available for a ceiling attachment. The rails are variable in length and interlocking. A single rail can go up to 15 meters in length!

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## Technical specifications

<b>Encoder</b>	Incremental / Track Encoded
<b>Resolution</b>	1 185 counts/cm
<b>Accuracy</b>	0.000844 cm
<b>Travel</b>	18 Km
<b>Max Velocity</b>	1.55 m/s
<b>Torque</b>	6.5 Nm
<b>Optical Axis Height</b>	320mm (M) / 420mm (L)
<b>Remote control</b>	IP with Web interface, SPIRIT Joystick, multiCAM Suite, UDP (SPIRIT protocol)
<b>Genlock IN</b>	Black Burst / Tri-Level
<b>Genlock OUT</b>	SDI Loop
<b>Compatibility</b>	SPIRIT Head / PTZ Cameras
<b>Tracking</b>	Free-D (encoding data with AR pack)
<b>Network</b>	2x RJ45 (Slide, Head)
<b>Power IN</b>	24Vdc 8A
<b>Dimensions</b>	41 cm (W) x 30 cm (D) x 20 cm (H) On rails: 26.5 cm (H) Cabling margin to add: 20 cm
<b>Weight</b>	9.3 kg

# CONTROL OF PTZ CAMERAS AND ROBOTICS

## PILOT

Master your camera movements  
and become a smooth operator



multiCAM PILOT is an ergonomic and intuitive interface that allows you to **control up to 6 robotic cameras and program extremely accurate movement sequences.**

This is the ideal solution to minimize operating costs because an operator can control more than one camera at a time. So during a motion recall on a DOLLY, a LIFT column will move up and down continuously and the operator can manually pilot a third camera on a robotic head.

multiCAM PILOT lets you use different models of cameras under a single interface, avoiding the complexity of multiple joysticks and remote controls.

With our CONTROL PANEL, you benefit from an ultra-precise controller whose ergonomics allow operators flexible and accurate movements with lightning-fast response times.

## Three control modes



### PRESETS

This is the basic mode. Click on a thumbnail to quickly recall a camera position. Any changes are detected and a button allows you to quickly update and save the stored position.

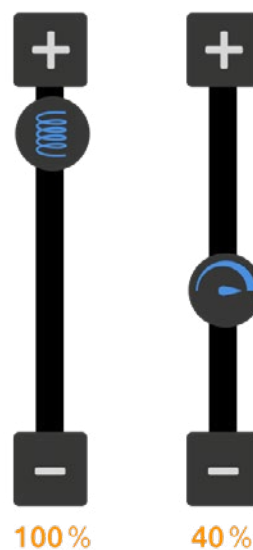


You get 6 presets per page per camera, which means 12 total presets per camera!



### TRANSITION

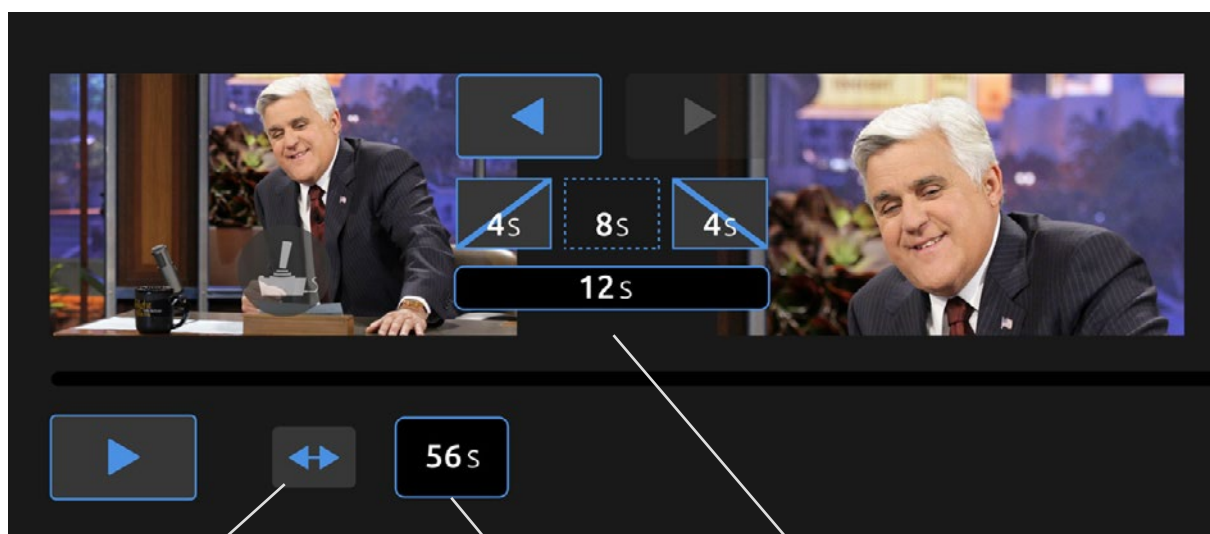
Set a time period between preset calls so that each frame is always ready for airing.





## SEQUENCE

This mode is used to program motion sequences between several key positions. Thanks to the transition timings, you control each step of the the sequence.



«ping-pong» activation mode

sequence total duration

transition time including fade-in fade-out

## Unified control of PTZ cameras

With its unified camera controls, multiCAM PILOT adapts to all camera models, and your operator works with a single common interface.

Presets can exclude optical data so that DIT can operate color profiles separately.



**SONY**

**Canon**

**Panasonic**

## Technical specifications



The solution is installed in an «XS» multiCAM server.

In 3U format, it contains an video ingest card that can monitor up to 6 sources in SDI 4K. With its two screen outputs, the interface is able to output the video format needed.

### **Video I/O**

Up to 6 x 3G-SDI

### **User interface**

Up to 2 x écrans (DP or HDMI)

### **Network**

Up to 2 ports Gigabit

### **Data/Peripherals**

- 1x 128GB SSD Hard Drive (System)
- 1x 1TB 7200rpm Hard Drive (Records)
- 2x USB 2.0
- 4x USB 3.0
- 1x 1/4" Headphones Jack

The solution comes with 1 or 2 touch screens depending on the number of cameras to be controlled.

A USB Joystick is included in the package. For the most precise control, we strongly recommend the SPIRIT control desk.



# CONTROL PANEL

We have designed control surfaces that allow operators precision control along with unparalleled ergonomics.



SPIRIT Control Panel offers a large choices of controllers to be assigned to any type of SPIRIT configuration.

## **6x Knobs-buttons + Digital screen:**

For adjusting precisely at any time the speeds (Dolly, Slide, Pan, Tilt, etc...)

## **7x Presets buttons:**

For assigning 6x «preset recall» buttons + 1 «save preset» button

## **12x Function buttons + 2x Digital screens:**

For assigning any feature required (Homing, Camera selection, etc...)

## **2x Joysticks:**

Left Joystick for X/Y axis (Horizontal and Vertical movements)

Right Joystick for HEAD or PTZ (Pan, Tilt and Zoom)

## **1x Jog:**

Focus precise adjustment

And since an operator has only two hands, pedals can be added. The assignment of controls can be fully customized in PILOT.

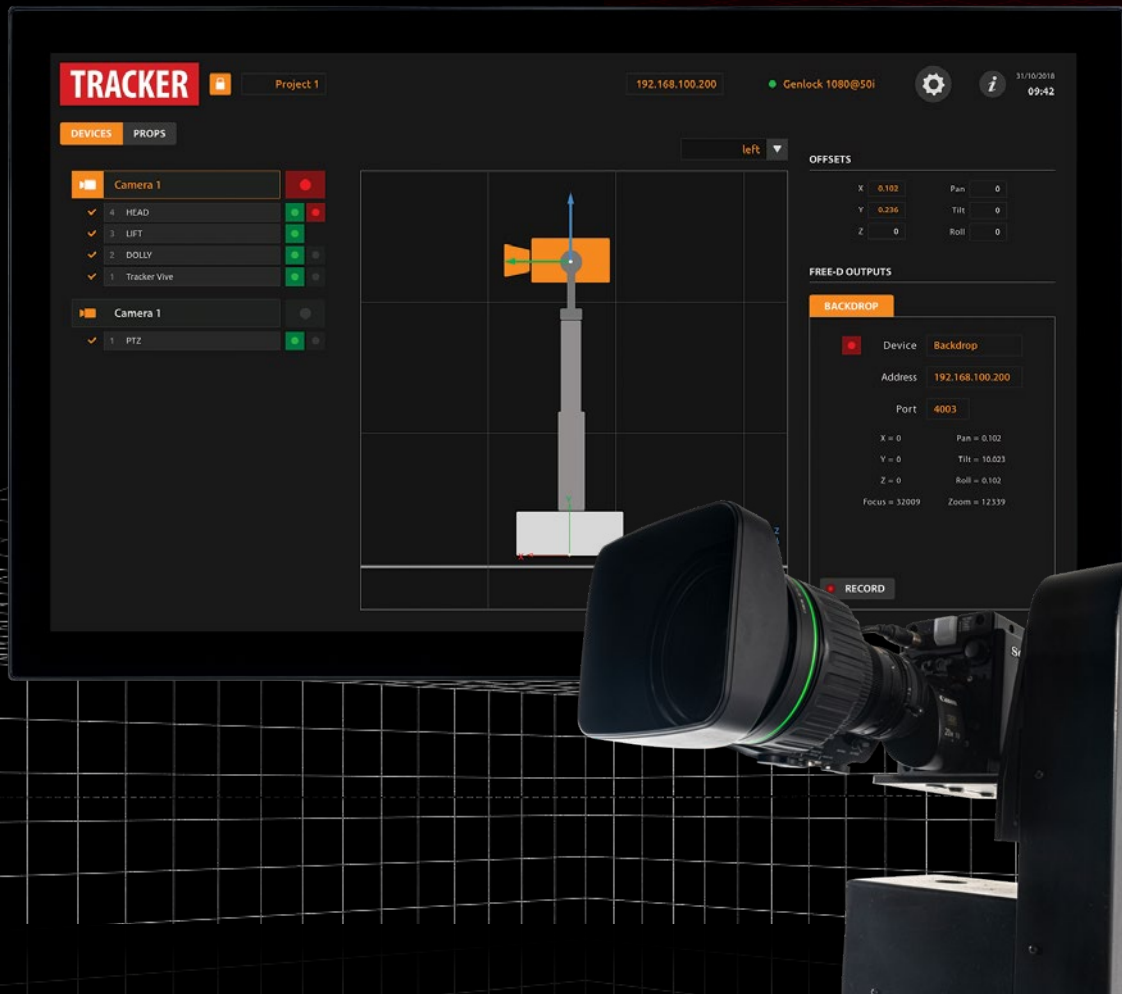
With the pan bar tripod option, the camera operator has the same feel as if they were actually behind the camera.

**Control Panel can be purchased individually to control one or multiple SPIRIT robotics. It can be combined, as an option to PILOT to offer the perfect control interface to operators.**

# EASY ROBOTICS TRACKING MANAGEMENT

## TRACKER

Easily manage and combine your robotics tracking



multiCAM TRACKER is an intuitive interface that compiles tracking data from different SPIRIT robotics to **generate a single FreeD signal per camera for virtual production engines.**

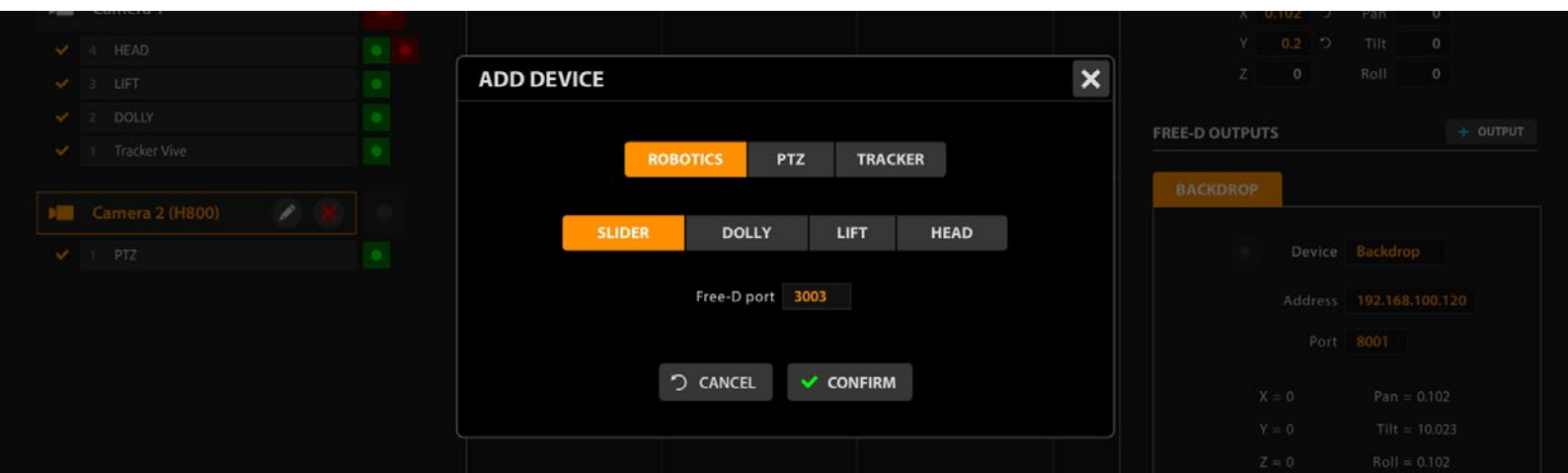
TRACKER is the simplest and most effective solution for using tracked robotics in a virtual environment.

The SPIRIT Slide, Dolly, Lift, and Head robotics systems are self-tracked, each delivering their XYZ and rotation motion data into space.

Because they can be combined into a “camera object,” TRACKER handles signal aggregation to provide a single FreeD data to the virtual production engine.

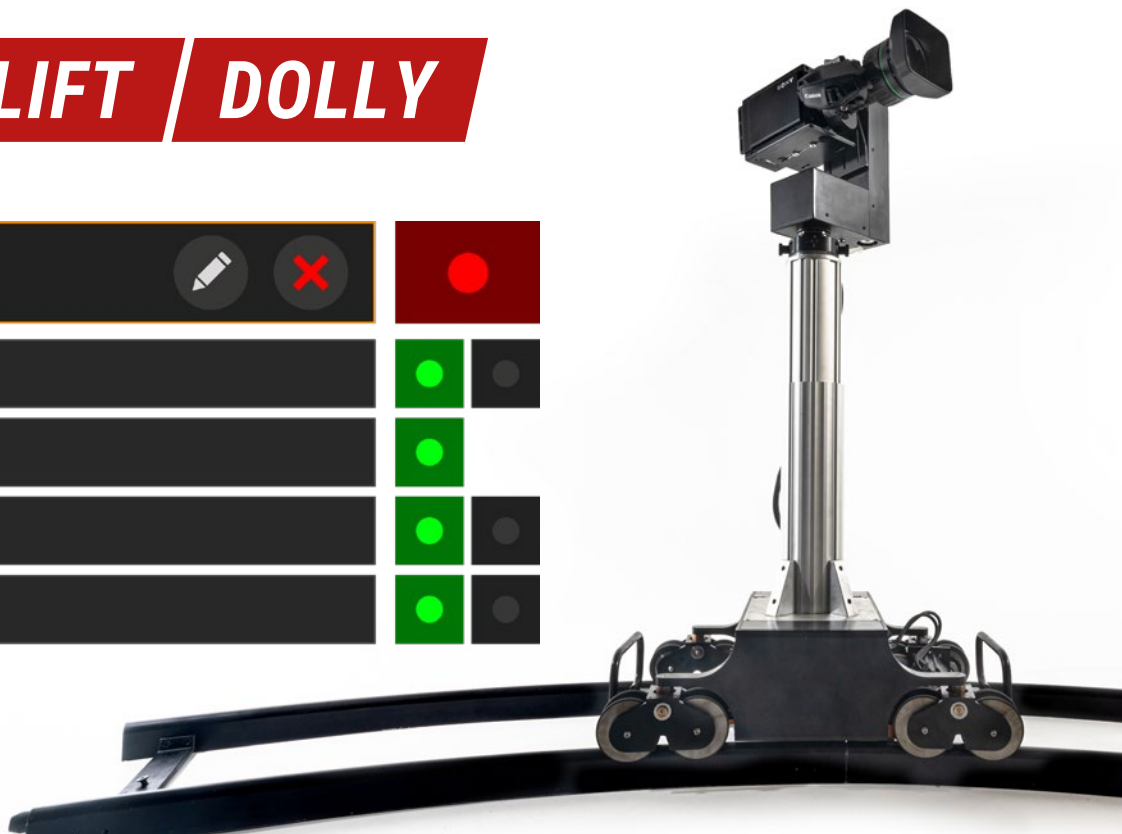
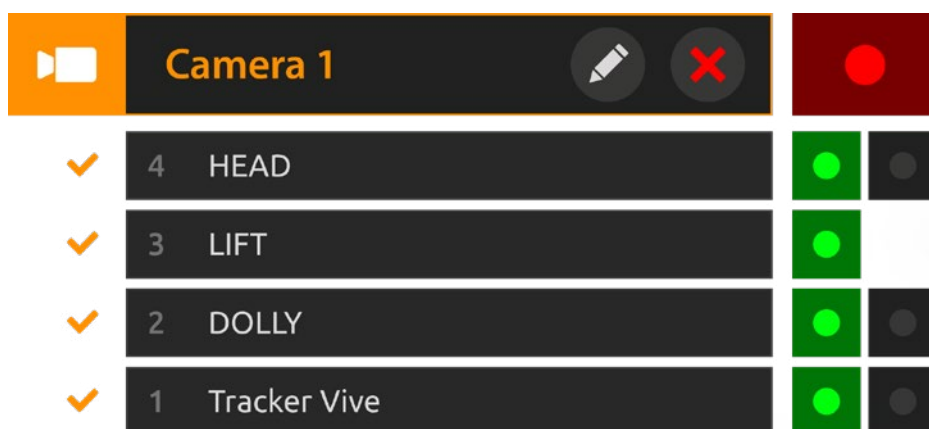
FreeD is a standard used by the most common solutions: Zero Density, Pixotope, VizRT, Avid, Backdrop, disguise...

# TRACKER



Here is a concrete example with a Head / Lift / Dolly combination.

## HEAD / LIFT / DOLLY





**SPIRIT Robotic Solutions are  
used in various Virtual and  
Augmented Reality productions.**

**Contact us for a turnkey  
solution!**



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# ***SPIRIT***

**Contact us for pricing information  
and live demonstrations**

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