SHOTOKU
BROADCAST SYSTEMS

THE ALL-NEW

TP500VR

SERIES

PRODUCT SPECIFICATIONS*

Maximum System Payload	40 kg / 88 lbs
Optimum Payload	13 - 38 kg / 28.6 - 83.6 lbs
Pan Range	360 deg
Tilt Range	± 90 deg
System Maximum Height	1,720mm / 67.72"
System Minimum Height	905mm / 35.63"
Dolly Traveling	Steering / Track Lock
Pan/Tilt Resolution	640,000 counts per 360 deg
XYZ Resolution	0.05 mm
Origin Detect	2-Point Calibration Technology
Protocol	D1 (RS-422 / UDP)
Output Delay	Real Time Output

*SX300VR (Pan Tilt Head) TP500VR System

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The TP500VR is our most compact and affordable broadcast-grade pedestal for virtual reality and augmented reality studio applications ever. Using proprietary algorithims and high-resolution Shotoku mechanical enoders, the TP500VR outputs optical position data over industry-standard protocols in real-time, even live. Careful attention has been given to the design of the TP500VR mechanical tracking system in order to make virtual and augmented studio technology more affordable than ever while still maintaining the light, portable footprint of the original TP500.

The TP500VR is an ideal choice in today's industry where increasing demands for captivating content in live sports and news challenge broadcasters to bring their produciton to the next level.

Freedom of Movement in All Directions

KEY FEATURES

- New, affordable fixed-handle mechanical tracking pedestal.
  Broadcast-quality virtual and augmented reality for everybody.
- High-Resolution Shotoku mechanical encoders.
  Output industry-standard VR data to all major graphic engines.
- Real-Time data Output.
  Create compelling virtual and augmented images, even in live productions.
- SPi-TOUCH compatibility.
  Easily calibrate and fine-tune the virtual image locally.
- Patent-Pending System

STAND-ALONE SYSTEM

No external markets, ultrasonic sensors, infrared sensors, reflectors, cameras, or special floor surfaces are required to produce world-class virtual and augmented reality content for broadcast.

X-Y Encoder
No Light Sensors, No Cameras

Height Encoder
Simple Mechanical Construction

Dolly Interface Box
Stand-alone System

EASY CALIBRATION

The optional SPi-TOUCH makes X-Y origin referencing even easier by allowing operators to offset VR data locally for practical, instant fine-tuning.

Spi-TOUCH

Open:
2-Point Calibration

Set:
2-Point Distance

1.000 (m)

Set:
Origin

Set:
Target

Real-Time Data Output

Processing of all encoder information is achieved using proprietary algorithms to determine the position of the camera's optical center. The resultant data, using industry-standard protocols, is then sent out to the graphics system within 1 millisecond for true real-time data output..

SCALABILITY

From small temporary studios to large productions, several options are available to meet the creative needs of any broadcast.

Start:
Pan, Tilt, Zoom, and Focus

SX300VR fluid head on a fixed tripod with ground spreader.

Add:
X and Y and 2-Point Calibration

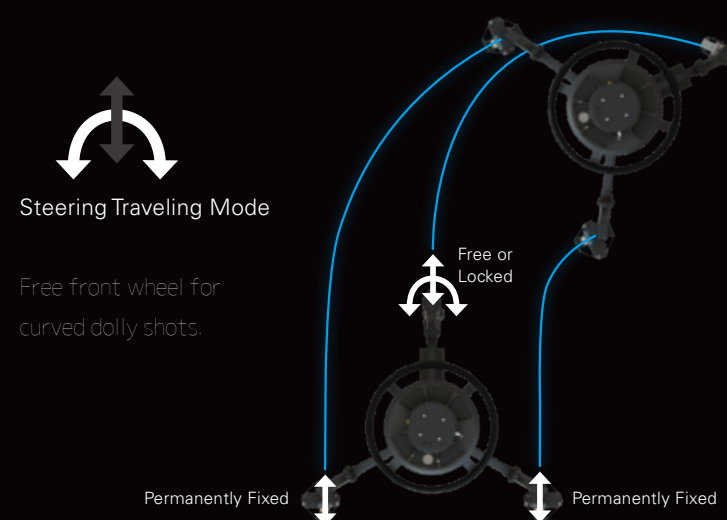TD-74VR studio dolly and SPi-TOUCH

Add:
Height

TC500VR Column assembly

MOBILITY

The TP500VR is a fixed handle pedestal with two fixed wheels and a single free wheel allowing for smooth dolly shots in both Steering Traveling mode and Track Lock mode.

Steering Traveling Mode

Free front wheel for curved dolly shots.

Free or Locked

Permanently Fixed

Permanently Fixed

Track Lock Mode

Locked front wheel for straight dolly shots.

Portable Construction

Capture beautiful images and create virtual and augmented studios anywhere. The TP500VR is our only portable pedestal for virtual and augmented reality productions.

Easy Set-up on Location or In Studio