VR SHOTOKU X-Y TRACKING VR DOLLY CRANE SYSTEM FOR VIRTUAL STUDIO

TK-53LVR/TI-04VR SYSTEM & TK-53VR/TI-04VR SYSTEM

SHOTOKU is the only VR Tracking equipment maker in the world providing true X-Y tracking VR Dolly crane systems. The TK-53LVR/TI-04VR System is the top model among the SHOTOKU VR crane product range.

■ VR Data

SHOTOKU VR Data Protocol D1 by RS422 (PAN / TILT / ZOOM / FOCUS / X / Y / Z) with X-Y tracking

FEATURES

- 1. Vibration-free Rigid Twin Arm Structure
- 2. Pan Bar Control Unit for Optimal Pan & Tilt Operation
- 3. One-man Operation (camera & crane arm)
- 4. X-Y Tracking VR Steering Dolly calibrated by Origin Sheet on studio floor ONLY
- 5. Quick Origin Point Resetting
- 6. Unlimited X-Y Tracking Area , No Restriction by Min. Ceiling Height
- 7. No Target on Ceiling/Floor/Wall, No Infrared Sensor, No Affection to Lighting Arrangement (Any studio can be virtual studio very easily)
- 8. Reliable, Accurate & No Delay VR Data Output to Graphic Computer by RS422 Cable



SPECIFICATIONS

Model	TK-53LVR/TI-04VRsystem	TK-53VR/TI-04VRsysten
System Overall Length	4,861mm	4,011mm
System Max. Lens Axis Height	3,850mm	3,099mn
Total Weight	approx. 560kg / 1,232 lbs	480kg / 1,056 lbs
Remote VR Head		TG-13VF
Max. Payload		10 kg / 22 lbs
Head Max. Speed		90°per second
Camera Pan Range		240
Camera Tilt Range		+ 60° / - 90'
Head Pan Resolution		86,400 counts per 360
Head Tilt Resolution		86,400 counts per 360
Crane Arm		TK-53(L)VRII
Arm Pan Resolution		640,000 counts per 360°
Arm Tilt Resolution		640,000 counts per 360°
Pan Bar Operation Unit		TK-53(L)VRII Pan Bar Operation Unit
Pan & Tilt Drag	C	ontinuously adjustable VISCAM Fluid-Leaf System
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VR Dolly		TI-04VR
Accuracy (Origin Setting)		X-Y: below ±5mm, θ: below ±0.1°
Accuracy (Travelling)	below ±1% of travel distance	
X-Y Reset Time by Origin Sheet		Within 5 seconds
Resolution		X-Y: 0.02mm θ: ±0.01°
VR Data Box		SPI-3 TO-18 for Crane
Input Voltage		24V
Temperature		0°C - 40°C
Humidity		Max. 85%
Dimensions		200mm(W) x 45mm(H) x 150mm(D)
Input Signal	CAMERA SYNC, PAN/TILT	, ZOOM/FOCUS, CRANE PAN/TILT, VR Dolly(X-Y)
	VR Data: SHOTOKU VR Data Protocol D1 by	RS422 (PAN / TILT / ZOOM / FOCUS / X / Y / Z
Output Data Speed		38,400bps
VR Data Processing Time		Below 1msec(1/1000 sec)
Power Supply for SPI-3 TO-18		Power Supply TO-21
Output Voltage		24V
Input Voltage		AC 85V-265V
Lens Position Data		TY-05
Lens Encoder Unit Notes: For zoom/focus virtual encoder built-in lens of Cand	TY-05C: for Canor on & Fujinon, SHOTOKU Lens Interface Cable (" I/F Cable ") is availab	Portable Lens, TY-05F: for Fujinon Portable Lens le with Lens I/F BOX TO-22.
X-Y Calibration Tool		Black & White Origin Sheet
Dimensions & Colour	t1.0 x 300 x 600 ((Black): 1 sheet, t1.0 x 300 x 900 (Black): 1 sheet
		t1.0 x 300 x 900 (White): 1 shee
2pt Calibration System	2nd X.Y origin resetting methor	SPI-TOUCH TO-32 I (2-points calibration method) by pan & tilt angle
	Ziid V.1 oliğii Lesettiliğ Metilot	VR data offsetting by cameraman is available