

# ***ROSS*** Robotics

| PAN TILT HEADS



***ROSS***

# | PAN TILT ZOOM FOCUS

The Ross Family of pan tilt heads provide an option for almost any project. From extremely large payloads of up to 90 kgs (200 lbs) to ultra-quiet, compact heads that are perfect for virtual sets with industry-leading performance. In addition to fully robotic heads, Ross also offers the VRzero encoder interface module packaged with Cartoni manual fluid heads to provide the same level of precision and accuracy.

## **SMOOTH**

300, 500, 600 and 700 series heads feature special gearboxes that eliminate backlash, as well as high-resolution servos to produce smooth and highly repeatable movement.

## **TRACKED**

The X350 and VR series heads provide accurate tracking data on pan, tilt, zoom and focus position, making them perfect for virtual sets or augmented reality.

## **FLEXIBLE**

Ross heads are available with a variety of mounting options that allow them to be placed on top of tripods or pedestals, hung upside down from a ceiling or trusses, or bolted to a wall, desktop or alcove.

## **LOCALLY CONTROLLED**

PT series heads offer an optional Local Control module that provides a local interface for releasing robotic control of the head, and permitting it to be positioned using manual pan bars. Returning to remote robotic control is as easy as flicking a switch, and does not require homing to re-establish accuracy of presets.

## **POWERED BY MOTION DIRECTOR**

The VR and X-series of heads unleash the full power of MotionDirector, combining the unequaled beauty of naturally smooth and synchronized programmed key-framed moves, with the flexibility to make in-flight manual corrections from the joystick panel. Because the real-world can be unpredictable, and you need a robotic system that gives you the ability to adapt to everything it can throw at you.

## **DASHBOARD ENABLED**

Perfect for simplified productions, all Ross pan and tilt heads are controllable from DashBoard at no cost.



perfect for mounting in smaller studios where space is at a premium; all  
provide accurate virtual tracking data for manually operated cameras.

ents.



hi eSensor fluid head



# | SPECIFICATIONS

700PT

600PT

520PT

X300



## STANDARD PT HEAD SPECIFICATIONS

	X300	520PT	600PT	700PT
MAX. NET PAYLOAD	6.8 kg (15 lbs)	30 kg (70 lbs)	57 kg (125 lbs)	90 kg (200 lbs)
MIN.- MAX. PAN/TILT SPEED	0.01 to 45°/sec	0.001 – 90 °/sec	0.001 – 90 °/sec	0.001 – 90 °/sec
PAN/TILT REPEATABILITY	±0.05deg	< 0.02deg	< 0.02deg	< 0.02deg
MAX. PROMPTER SIZE	None	Max. 15"	Max. 19"	Virtually unlimited
WEIGHT PAN/TILT HEAD	5.0 kg (11lbs)	9.1kg (21lbs)	22.6 kg (50lbs)	32.6 kg (72lbs)
LENS SUPPORT	Analog, Digital	Analog, Digital	Analog, Digital	Analog, Digital
POWER REQUIREMENT	48V DC brick 100-240V AC	48V DC brick 100-240V AC	48V DC brick 100-240V AC	48V DC brick 100-240V AC
TRACKING FOR VS/AR	No	No	No	No





VR0



X350



VR600

\*Packaged with Cartoni eSensor  
or eMagnum fluid heads

VR-READY PT HEAD SPECIFICATIONS			
	VR0	X350	VR600
MAX. NET* PAYLOAD	eSensor: 35 kg (77lbs) eMagnum: 95 kg (209lbs)	6.8 kg (15 lbs)	57 kg (125 lbs)
MIN.- MAX. PAN/TILT SPEED	Manual	0.01 to 45°/sec	0.001 – 90 °/sec
PAN/TILT REPEATABILITY	Manual	±0.05deg	< 0.02deg
MAX. PROMPTER SIZE	None	None	Max. 20"
WEIGHT PAN/TILT HEAD	eSensor: 6.5 kg (14.3lbs) eMagnum: 19 Kg (42lbs)	5.3 kg (11.7 lbs)	25 kg (55 lbs)
LENS SUPPORT	Digital	Analog, Digital	Digital
POWER REQUIREMENT	24 V DC brick 100-240 V AC	48V DC brick 100-240V AC	48V DC brick 100-240V AC
TRACKING FOR VS/AR	YES	YES	YES



## | PAN TILT HEADS

Ross Video has a complete range of technical services available to ensure that your Ross Robotics installation is a success.

**Operational Training** can be provided at Ross Video, on-site, or on the web. Experienced Ross operators will teach your staff to get the most out of your new system and enhance your productions.

**Commissioning** is a service to help get your production system properly configured, connected, and installed. This service is performed by factory-trained Ross technical staff.

**Technical Training** can be provided at Ross Video, on-site, or over the web. Technical training will teach your engineering staff the technical details of the system you have purchased. System configuration, interfaces, databases, and routine maintenance procedures are some of the topics covered.

Your Ross Robotics comes standard with a 1 year comprehensive warranty. Extended Warranties on hardware and software maintenance are available for an annual fee.

Technical advice is available on-line, by telephone, or email to Ross Video – Included for the life of your system.

### Contact Us

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Technical Support

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## ROSS VIDEO Let's make it real.

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Sport & Live Events  
Legislative  
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House of Worship  
Education  
Corporate

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Replay & Production Servers  
Robotic & Camera Systems  
Control Systems  
Routing Infrastructure  
Signal Processing Infrastructure  
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### SERVICES

Creative Services  
Mobile Production

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