

# CamBot

Reliably Accurate  
Robotic Pedestals



# Power, Precision, and Reliability

The CamBot range of free-roaming pedestals, with the addition of the CamBot 600XY models, now offers three distinct choices to suit a wide variety of studio applications and capital budgets. All three members of the series are built on the same proven pedestal base. This base features the industry's best accuracy and floor repeatability, fast and easy targeting, and a straight-forward design that provides years of reliable, low-maintenance operation.

## 600XY-S2

With its, breakthrough, entry-level price-point, the new 600XY-S2 enables a whole new segment of users to take advantage of the flexibility and versatility of free-roaming robotic pedestals. Multiple fixed-position cameras can now be replaced by a single roaming pedestal for less money.

The 600XY-S2 combines the 2-stage lift from the CamBot 600PTZ with a 600PT head. With a net payload of 125 lbs (57 kg), the 600XY-S2 can handle most of today's studio camera configurations, including ENG/EFP-style cameras and lenses, with full-sized teleprompters, talent monitors, clocks and tally lights.

## 600XY-S3

The mid-range 600XY-S3 combines the price benefits of the smaller payload 600PT head with a 50% increase in elevation range (i.e. difference between min and max elevation) over the 600XY-S2. By mounting the 600PT head on the heavy-duty 3-stage lift from the flagship 700XY, a wider range of shots is achieved, including the ability to more naturally cover both standing and seated talent positions.

## 700XY

At the top of the range sits the market-leading 700XY, whose payload capacity, accuracy and reliability are unmatched in the industry. With a 200 lb (90 kg) net payload, the 700XY can support some of the largest box lenses and studio cameras still in use today.

## FEATURES & BENEFITS

FEATURES	BENEFITS
<b>UNIQUE DIFFERENTIAL STEERING</b>	The CamBot's unique two-wheeled design eliminates the wheel-scrubbing that results in the rapid accumulation of floor-error that plagues caster-based designs. Unlike external bolt-on floor-positioning systems, it requires no external markers (other than a single 33 cm x 39 cm (13" x 15.5") floor target) or sensors, yet still provides the best accuracy in the industry.
<b>LOCAL / MANUAL CONTROL</b>	CamBot's local control module allows an operator to convert the system to a manually operated pedestal and pan-tilt head at the flick of a switch. Because the motors and encoders remain engaged at all times, the robot continues to track its position, eliminating the need for re-homing once it is returned to full robotic control – again at the flick of a switch. It is the simplest, most convenient manual control solution available today.
<b>RAPID, ACCURATE TARGETING</b>	Targeting is based on optical pattern recognition technology that provides sub-millimeter accuracy and takes less than a second to complete.
<b>VIRTUAL TRACKING DATA</b>	All CamBot XY-pedestals offer high resolution virtual tracking data on all seven axes, which combined with its unbeatable floor accuracy, makes it ideal for adding augmented reality to existing hard sets, or for use in full-blown virtual sets. Because the pedestals always know where they are, even when in local mode, they also continue to send accurate tracking data on all axes (including XY) when operated manually.
<b>SIMPLE, LOW MAINTENANCE, ROBUST DESIGN</b>	The CamBot design is beautiful in its simplicity, minimizing the number of belts, gears and motors, and eliminating the need for pressurization. CamBot is the most reliable, low maintenance free-roaming pedestal in history. As so many customers have said: it just works.

## SPECIFICATIONS

The 600XY-S2 & S3 and 700XY provide industry-leading performance in a compact, reliable, and low maintenance free-roaming XY pedestal.

FEATURE / PERFORMANCE PARAMETER	600XY-S2	600XY-S3	700XY
MAX. Net Payload	57 kg (125 lbs)	57 kg (125 lbs)	90 kg (200 lbs)
MAX. Lift Speed	12.7 cm/s (5"/s)	15 cm/s (6"/s)	15 cm/s (6"/s)
Elevation Range	50.8 cm (20")	76.2 cm (30")	76.2 cm (30")
Max. Elevation (to tilt axis)	163 cm (64.3")	176 (69.1")	179 cm (70.6")
Max. XY Speed	30 cm/s (12"/s)	30 cm/s (12"/s)	30 cm/s (12"/s)
XY Repeatability	±0.1%	±0.1%	±0.1%
Min.- Max. Pan/Tilt Speed	0.001 - 90 deg/sec	0.001-90 deg/sec	0.001-90 deg/sec
Pan/Tilt Repeatability	<0.02 deg	<0.02 deg	<0.02 deg
System Weight	155 kg (341 lbs)	162 kg (357 lbs)	170 kg (375 lbs)
Virtual Tracking Data	Included, 7-axes	Included, 7-axes	Included, 7-axes



Ross Video has a complete range of technical services available to ensure that your CamBot 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 robotics 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.

CamBot 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.**

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