

Vision Guided Robotics

- Advanced Integrated Vision Solutions
- Improved ROI with Increased Yields
- Point and Click Ease of Use
- Finds Parts in Difficult Conditions
- Low Cost and High Performance
- Fixed and Arm Mounted Cameras Available
- Easy Collaboration with Vision Guide Wizards
- Integrate with .Net or GUI Builder to provide powerful GUI based End User Systems



Powerful Integrated Vision Solutions at a Value Price

All EPSON Smart Cameras are tightly integrated into our industry leading ease of use EPSON RC+ development environment and provide true Robot/Vision integration. Point and click interface reduces development time from weeks to hours. No time is wasted writing code to make the robot and vision system communicate and there is no need to learn 2 separate environments and languages (vision + robot). In fact Vision Guide has only 3 language commands VGET, VSET and VRUN. This is due to the highly graphical vision object based development environment and point and click Vision Guide interface.

EPSON Smart Cameras are built to work with either our industry leading, True PC based RC620+ controller or our high performance Micro PowerDrive RC180 controller. Both controllers provide the ultimate experience in ease of use. Our True PC based RC620+ controller provides access to all the powerful integrated options that EPSON PC based controls are famous for. Our Micro PowerDrive RC180 controller provides a compact size, and reliable solution at an incredible low price. With EPSON Controllers and EPSON Smart Cameras, EPSON gives you more Power of Choice than ever before.

EPSON Smart Cameras Specifications



Available with 2 Different Controllers

Camera Model	SC300 (Fixed Camera)	SC300M (Mobile Camera)
Resolution	640 x 480	
Sensor Type	0.25 Inch (6.35mm) Progressive Scan with Square Pixels	
Lens Type	CS Mount	
Mounting Options	Fixed Camera	Mobile Camera (Mobile head for mounting on end of robot arm)
Mobile Camera Head Cable	NA	5 Meter (Camera Link)
Communications Interface	Ethernet 10/100	
Image Operation Tools	Open, Close, Erode, Dilate, Sharpen, Smooth, Flip, Rotate, etc.	
Vision Tools	Geometric Search, Polar Search, Normalized Correlation, Blob Analysis, Edge Finder, Frames, Lines, Points, Histogram, Statistics...	
Robot/Camera Calibrations	Mobile, Fixed Upward, Fixed Downward (all wizard based)	
Dimensions (mm)	154.13 (L) x 48.26 (H) x 60.05 (W)	Main Body: 150.19 (L) x 51.3 (H) x 60.55 (W) Mobile Head: 44.25 (L) x 48.77 (H) x 68.17 (W)
Weight (oz.)	15.3 oz. (433.7 grams)	Main Body: 15.3 oz. (433.7 grams) Mobile Head: 6.5 oz (184.3 grams)
Operating Temperature	0 – 45 Deg C	
Power Consumption	375 mA @24V DC (9W typical)	
Connectors	RJ45 for Power; RJ45 for Ethernet	
Certifications	FCC Class A; CE Class A; RoHS Compliant	
Available Controllers	Micro PowerDrive RC180 PC Based Controller RC620+	



Micro PowerDrive RC180



PC Based Controller RC620+



EPSON Robots
18300 Central Avenue
Carson, CA 90746

Tel: +1 (562) 290-5910
Fax: +1 (562) 290-5999

E-mail: info@robots.epson.com
Web: robots.epson.com

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