

IntelliGuide[™] Vision

Vision Made Easy for PreciseFlex Robots

Simplify Vision Applications

Cameras embedded in the gripper (forward and downward facing) enable less engineering effort, faster deployment, and shorter timeto-production.

Factory calibrated and ready to use out of the box. Simply specify offset to gripper fingers.

Additional Vision Tools Available.

Reduce Design, Eng. and Deployment Costs

Significantly reduces the time needed from system design to installation and deployment.

Traceability with Barcode Reading

Read 1D and 2D barcodes. See specifications for complete list.





Code 39



















PreciseFlex 3400 Robot with IntelliGuide v23

with IntelliGuide v60

Key Benefits

- Fast and easy deployment unlocks the best ROI
- Automatically adapt to changes in workspace
- Eliminate time consuming teaching for simple and complex applications
- Higher reliability with no external cables

Key Features

Auto-Recovery When Change Happens

Automatic recovery and reteaching of locations when things shift in the workspace.

Auto-Teach

Read ArUco Markers and determine offsets to hotels, instruments, magazines, fixtures etc. Quickly recover from changes in workcell without reteaching tens or hundreds of locations.

Ideal for Roll-up Carts and AMRs

Easily locate objects in dynamic environments.

Image Capture

Capture time-stamped images when an event occurs and transfer for further analysis. Useful for trouble shooting of chain of custody.

Image Sharpness

Returns image sharpness that enables focus adjustment by moving the robot closer to, or farther away from, the target.

Object Locator

Geometric part locator tool for locating objects in 2D space.

Quickly train objects and start picking from trays, conveyors, nests, etc.



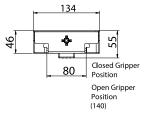
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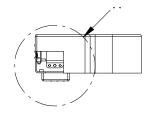
Technical Specifications

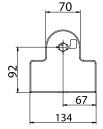


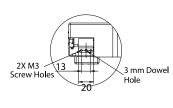
Robot Compatibi	lity
IntelliGuide v23	PreciseFlex 400*, PreciseFlex 3400*, PreciseFlex c10
IntelliGuide v60	PreciseFlex 3400*, PreciseFlex c10
*Also	o compatible with these robots on Collaborative Linear Rail
Specifications	
Cameras	Forward Looking and Downward Looking
Resolution	5MP, H:2592, V:1944
Pixel Size	H:1.4 µ, V: 1.4 µ
Lens	6 mm Manual adjustment requires re-calibration
Working Distance	150 mm (as configured)
Focal Length	2.8 mm
FOV (H):	72°
Lighting	PWM Controlled LED lighting (White)
Weight	
IntelliGuide v23 IntelliGuide v60	0.67 kg 1.07 kg
Prec	cision, Typical from static position at Working Distance
	±0.18 mm in X/Y/Z, ±0.19° in Rotation (results can vary with application)
Barcode Formats 1D	
	Code 128 (standard and short Code 25 (ITF) Codebar (Codabar) EAN_8 EAN_13 UPC_E UPC_A CODE39Checksum Code39StartStop Code25Checksum Code93
Barcode Formats 2D	PDF_417 (standard and Micro) DATA_MATRIX DATABAR PATCH_CODES Aztec QR Code
IntelliGuide v23	
	23N Gripping Force 60 mm Stroke 1.0 kg Payload (when friction is the only gripping force) Robot payload capacity must also be considered Picks SBS plates in portrait and landscape orientation
IntelliGuide v60	
	60N Gripping Force 40 mm Stroke 3.0 kg Payload (when friction is the only gripping force) Robot payload capacity must also be considered
Options	
	See IntelliGuide Accessories Datasheet ArUco labels for quick start Calibration plate SBS Plate fingers (for 23N IntelliGuide)
Software	
	Programming via Guidance Development Studio (GDS) Compatible with Guidance Programming Language (GPL) Compatible with TCS API

Dimensions, IntelliGuide v23









Dimensions, IntelliGuide v60

