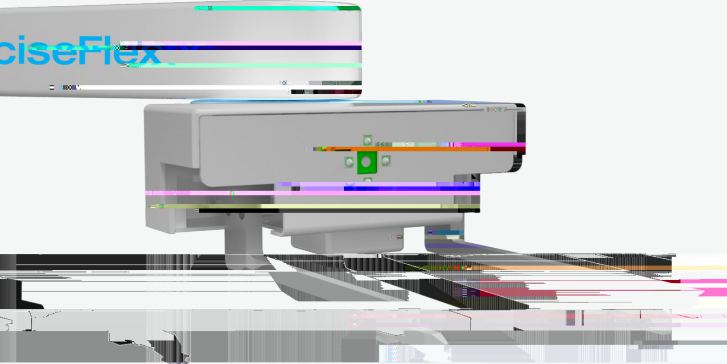


In elliG ide Vi ion - preliminary

Vision Made Easy for PreciseFlex Robots in Structured and Unstructured Environments



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

Simplified Vision Application

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

Reduce Design, Eng. and Deployment Cost

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

Auto-Recover When Change Happen

Automatic recovery and re-teaching of locations when things shift in the workspace.

Ideal for Roll-up Car and AMR

Easily locate objects in dynamic environments.

TCP Command Server (TCS) Compatible

- Eliminate time consuming teaching for simple and complex applications
- Higher reliability with no external cables



PreciseFlex c10 Robot In elliG ide 60

PreciseFlex 3400 Robot In elliG ide 23

Auto-Teach

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

Barcode Reading

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



Object Locator

- Geometric part locator tool for locating objects in 2D space.
- Quickly train objects and start picking from trays, Automatic



Robo Compabili

In elliG ide 23	PreciseFlex 400*, PreciseFlex 3400*, PreciseFlex c10
In elliG ide 60	PreciseFlex 3400*, PreciseFlex c10

*Also compatible with these robots on Collaborative Linear Rail

Speci ca ion

Camera	Forward Looking and Downward Looking
Re ol ion	5MP, H:2592, V:1944
Pi el Si e	H:1.4 μ , V: 1.4 μ
Len	6 mm Manual adjustment requires re-calibration
Working Di ance	150 mm (as configured)
Focal Leng h	2.8 mm
FOV (H):	72°
Ligh ing	PWM Controlled LED lighting (White)

Preci ion, T pical from a ic po i ion a Working Di ance

± 0.18 mm in X/Y/Z, $\pm 0.19^\circ$ in Rotation
(results can vary with application)

Barcode Forma 1D

Code39 (standard and extended)
Code128 (standard and short)
Code25 (ITF)
Codebar (Codabar)
EAN_8
EAN_13
UPC_E
UPC_A
CODE39Checksum
Code39StartStop
Code25Checksum
Code93

Barcode Forma 2D

PDF_417 (standard and Micro)
DATA_MATRIX
DATABAR
PATCH_CODES
Aztec
QR Code

In elliG ide 23

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

In elliG ide 60

60N Gripping Force
40 mm Stroke
3.0 kg Payload (when friction is the only gripping force)
Robot payload capacity must also be considered

Op ion

See IntelliGuide Accessories Datasheet
ArUco labels for quick start
Calibration plate
SBS Plate fingers (for IntelliGuide v23)

Sof are

Programming via Guidance Development Studio (GDS)
Compatible with Guidance Programming Language (GPL)
Compatible with TCS API

Dimen ion , In elliG ide

Dimen ion , In elliG ide