

CAM 1

CAM 2

Camera Selection Buttons



Reset Zoom and Pan



Current Camera Feed

Capture Image

Auto Adjust Camera

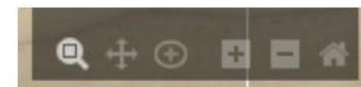
Captures a single image from the camera feed and downloads this image to the browser

Runs an automatic camera configuration program



Manual Camera Exposure Control

## CAMERA FEED CONTROLS



Zoom Tool - Drag-select will zoom on a rectangular area



Pan Tool - Click-drag will pan camera



Target Tool - Drag-select will zoom on a circular area



Zoom In - Simple zoom in on center of camera feed



Zoom Out - Simple zoom out on center of camera feed



Reset - Reset zoom and pan

CAMERA

**ASSEMBLIES**

OCR

LIVE

DIGITAL I/O

HEALTH

SECURITY

REPORTING

BACKUP

☒ Enable Release Control

☒ Enable Shaded Bounding Boxes

☒ BETA: Enable Rapta Alignment AI

Continuous

☒ BETA: Enable Next Gen Rapta Vision AI

Base

☒ BETA: Enable Occlusion Detection

☒ BETA: Enable Multi-Step Model

☒ Enable Release Control

☒ Enable Shaded Bounding Boxes

☒ BETA: Enable Rapta Alignment AI

Continuous

Once

**Continuous**

☒ BETA: Enable Next Gen Rapta Vision AI

Base

☒ BETA: Enable Occlusion Detection

☒ BETA: Enable Multi-Step Model

Release Control requires documented authorization for the activation of ASSEMBLIES  
<https://rapta.ai/knowledge-base/release-control/>

Regions of Interest drawn in ASSEMBLIES will be shaded during COACHING

Rapta Alignment AI will Pan Cameras to Capture ASSEMBLY region of interest during COACHING  
ONCE - Alignment AI will trigger once per ASSEMBLY STEP  
CONTINUOUS - Alignment AI will continuously work to bring region of interest into view

Toggles Enhanced Rapta Vision AI

Occlusion Detection will notify the OPERATOR that an object is occluding the camera's view of the scene

Multi-Step Model provides higher prediction accuracy and faster ASSEMBLY edit times by training one AI model per ASSEMBLY STEP

## Optical Character Recognition (OCR)

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☒ Enable Character Filter (, ; / . :)

☒ Enable UPPERCASE Filter

OCR Retry Counter

10

3 retries

30 retries

Text Location Accuracy

2.5

1.5x OCR box

10x OCR box

Minimum Character Size

20

20 pixels

100 pixels

☒ Enable Character Filter (, ; / . :)

☒ Enable UPPERCASE Filter

OCR Retry Counter

10

3 retries

30 retries

Text Location Accuracy

2.5

1.5x OCR box

10x OCR box

Minimum Character Size

20

20 pixels

100 pixels

Filters out non-alphanumeric characters from OCR capture.

Makes OCR captures case-insensitive by settings all alphabetical characters to uppercase.

Sets the number of times the Rapta OCR module will retry attempts to capture character data from the ASSEMBLY scene.

Sets the margin of accuracy for OCR captures in COACHING as a multiple of the OCR bounding box established during creation of ASSEMBLY. Higher values makes OCR more forgiving, but may introduce errors with tightly grouped text.

Sets the minimum number of width and height pixels for a valid OCR capture string.

Step Progression Delay



- ☒ Enable Step Timer
- ☒ Enable Chime on Step Completion
- ☒ Enable Incorrect Action Chime
- ☐ Repeat Video Instructions
- ☒ Auto-advance to next step after Video Instruction plays
- ☒ Autostart new coaching job by default
- ☒ Enable Prediction Smoothing

Prediction Smoothing Default Setting



Step Progression Delay



- ☒ Enable Step Timer
- ☒ Enable Chime on Step Completion
- ☒ Enable Incorrect Action Chime
- ☐ Repeat Video Instructions
- ☒ Auto-advance to next step after Video Instruction plays
- ☒ Autostart new coaching job by default
- ☒ Enable Prediction Smoothing

Prediction Smoothing Default Setting



Sets the delay before ASSEMBLY STEPS will progress when confirmed PASSED, but benchmark time is not fully elapsed

Toggles the benchmark timer for ASSEMBLY STEPS

Toggles chime on PASSED ASSEMBLY STEPS

Toggles chime on FAILED ASSEMBLY STEPS

Plays video instruction on a continuous loop during ASSEMBLIES

VIDEO INSTRUCTION ONLY STEPS will advance when the video completes instead of waiting for OPERATOR input.

ASSEMBLIES will restart upon completion. END ASSEMBLY will exit this loop.

Toggles setting tolerance parameters on AI prediction making. Higher prediction smoothing values make AI classification more lenient, but may introduce errors.

☐ Enable Input 1 TORQUE 1

☐ Enable Input 2 INPUT 2

☐ Enable Input 3 INPUT 3

☐ Enable Input 4 INPUT 4

☐ Enable Output 1

☐ Enable Output 2

☐ Enable Output 3

☐ Enable Output 4

☒ Enable Smart Torque Wrench

Manufacturer: Kolver

IP Address: 192.168.86.120

Device Name: Default Torque Tool

Target Torque: 2

Max Torque: 3.5

Torque Units: in-lbs

Run Speed: 500

Speed Units: rpm

Final Rotation Angle: Angle...

Permitted Angle Tolerance: 20%

Get this IP Address in the Kolver Settings:  
Top Right Hamburger Button -> General Settings  
-> Page 4/7

Rapta's Angle Check will require that tightening events fall within an accepted tolerance of the final rotation angle.

☐ Enable Angle Check

TEST CONNECTION

PROGRAM VALUES

Torque Wrench Data

Received the following from the Smart Wrench:

Status: Screw OK

Program Number: 1

Torque Achieved: 2.66 in-lbs

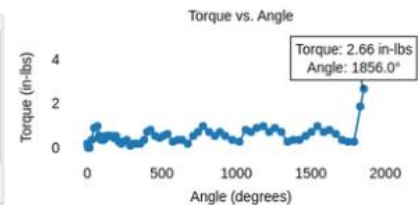
Speed: 500 rpm

Target Torque: 2.0 in-lbs

Max Torque: 3.5 in-lbs

Run Velocity: 500 rpm

Final Velocity: 500 rpm




Service	Status
Compute Sensor Camera Basler	OK
Compute Sensor Mechanical Io	OK
Compute Sensor Mechanical Kolver	OK
Store Filesys	OK
Store Backup	OK
Buslog Scheduler	OK
Buslog Reporting	OK
Store Database	OK
Compute Alignment	OK
Compute Predict	OK
Compute Ng Predict	OK
Compute Ms Predict	OK
Compute Video Export	OK
Compute Sequencer	OK
Compute Ocr Predict	OK
Compute Model Edit	OK
Compute Model Train	OK
Compute Recorder	OK
Compute Coaching	OK
Ui Webserver	OK
Ocr Container	OK

The Rapta Supercoach HEALTH page reports the status of all the platform components.

Within two minutes of starting the platform, all components should report OK. If this is not the case, please contact Rapta Support.

Enables RFID authorization and authentication for SUPERVISOR users.

☒ Enable RFID Badge Tracking RFID Reader Status: ● No RFID Reader Detected

RFID Card Number	First Name	Last Name	Role	Password
5FC7DB39	Sam	Supervisor	Supervisor ▾	NONE
 5FC7A6D5	John	Doe	Operator ▾	NONE

Click the RFID, First Name, Last Name, Role, and Password fields to edit these properties.

Add User

☒ Automatically Log Out After Inactivity



☒ Enable Supervisor Lockout for Approval Button

Select/Deselect All

- ☒ General Assembly
- ☐ OCR Verification
- ☒ Serial Number Capture
- ☐ Serial Number Match
- ☒ Data Capture
- ☒ Visual QA & Torque
- ☒ Input Event
- ☒ Output Event
- ☒ QA Inspection
- ☒ QA Dwell
- ☒ Video Instruction
- ☒ Torque Only
- ☐ Copy Step

Force SUPERVISOR authorization for APPROVE and NEXT STEP buttons

☐ Enable Supervisor Lockout for Next Button

### ADD NEW USER

RFID Badge Number

Scan Badge Now...

First Name

Enter first Name...

Last Name

Enter last name...

Role

Operator ▾

Password

Enter Password...

Confirm Password

Enter Password...

CANCEL

SUBMIT

Assign the USER an RFID badge by scanning the badge when creating the USER

USERS require a first name.

Last name and password are optional.

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Supervisor



Report Type:

ASSEMBLY

Frequency:

DAILY

☒ Email Recipients When Operator clicks Next Step or Supervisor Buttons

E-Mail Recipients:

Enter email address and press enter...

× reports@rapta.ai

Save

End of Coaching Report Type:

Advanced Report

Rapta Supercoach produces a report for each ASSEMBLY that is coached with the system as well as specialty reports when specific events take place. These reports can be automatically sent a list of email addresses on a regular basis.

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Backup status: No USB Backup Drive selected

☒ Enable USB Backups

☒ Enable Automatic Backup

Path

/rapta\_backup-3-27

NAME OF DIRECTORY TO STORE BACKUP DATA TO

Save

Exception Reporting

Enter email address and press enter...

✕ errors@rapta.ai

Removable Device

USB Backup Drive was not found

Backup Now

Restore Now

All Rapta Supercoach data can be backed up to an external storage medium. These backups can occur automatically at set intervals or be conducted manually from this page.

Email reports for Exceptions that occur during backup can also be configured here.