SAMPLE — PUBLIC DATASET

Haga sample report

A sample of what Haga hands back, generated from the real public ALOHA static towel task. The footage is from LeRobot's public dataset (lerobot/aloha_static_towel); nothing in this report is sensitive and nothing is redacted.

The verdict

FAIL
Verdict
FP rate 0.045 > 0.020 on 67 clean tracks

0.045
Flag rate on presumed-clean tracks
67 scored tracks, 3 flagged — target ≤ 0.020 — status FAIL

1.000
Detection rate
134 injected violations, synthetic — target ≥ 0.950 — status PASS

lerobot/aloha_static_towel
Source dataset
67 clips, test episodes 15-49 (disjoint from calibration 0-14)

The calibration state

What the gate was calibrated on, and how

the experiment	P2-E1 real-footage calibrated gate (SAP v2), ALOHA static towel task
the verdict	FAIL
the tracks scored	67
the flagged	3
the clean	64
the abstained	0
the support plane	measured per clip, from the resting-height segment
the free-frame mask	derived from the gripper signal (channel 13, Otsu threshold 0.365)
the calibration and test episodes	disjoint (calibration 0-14, test 15-49)
the artifact date	`2026-10-29T22:59:26Z`

The post-hoc audit finding, and what it does not tell you

The audit's SUPPORT-PLANE-GAP finding appears on 3 of the 3 flagged tracks and on 64 of the 64 unflagged ones. It is on every track, so it does not distinguish a flagged track from an unflagged one, and it says nothing about why the gate refused what it refused. The clean cohort is presumed violation-free and is not independently labelled, so a flag on one of its clips is not established as wrong.

What this run does not show

- The contact penetration threshold (0.0080m) sits below the empirical tracking measurement noise floor (0.0160m), generating false positives on clean footage where tracking jitter exceeds the threshold.

- The object diameter is ASSUMED (0.020m) and metres-per-pixel is a declared camera calibration (0.00140625 m/px), not a measurement. No reference dimension exists in the dataset.
- The track-picker's span band is ONE geometric prior. It is not fitted to any measured result.

The per-track evidence

Clip	Verdict	Checks that fired	First flagged frame
frame00086	CLEAN	none fired	no flag
frame00086 (track 2)	CLEAN	none fired	no flag
frame00419	CLEAN	none fired	no flag
frame00091	CLEAN	none fired	no flag
frame00091 (track 2)	CLEAN	none fired	no flag
frame00091 (track 3)	CLEAN	none fired	no flag
frame00374	CLEAN	none fired	no flag
frame00374 (track 2)	CLEAN	none fired	no flag
frame00374 (track 3)	CLEAN	none fired	no flag
frame00390	CLEAN	none fired	no flag
frame00090	CLEAN	none fired	no flag
frame00090 (track 2)	CLEAN	none fired	no flag
frame00324	CLEAN	none fired	no flag
frame00097	CLEAN	none fired	no flag
frame00097 (track 2)	CLEAN	none fired	no flag
frame00338	CLEAN	none fired	no flag
frame00338 (track 2)	CLEAN	none fired	no flag
frame00089	CLEAN	none fired	no flag
frame00081	CLEAN	none fired	no flag
frame00099	CLEAN	none fired	no flag
frame00099 (track 2)	CLEAN	none fired	no flag
frame00099 (track 3)	CLEAN	none fired	no flag
frame00099 (track 4)	CLEAN	none fired	no flag
frame00368	CLEAN	none fired	no flag
frame00116	CLEAN	none fired	no flag
frame00393	CLEAN	none fired	no flag
frame00088	CLEAN	none fired	no flag
frame00369	CLEAN	none fired	no flag
frame00370	CLEAN	none fired	no flag
frame00388	CLEAN	none fired	no flag
frame00096	CLEAN	none fired	no flag

Clip	Verdict	Checks that fired	First flagged frame
frame00096 (track 2)	CLEAN	none fired	no flag
frame00096 (track 3)	CLEAN	none fired	no flag
frame00346	CLEAN	none fired	no flag
frame00346 (track 2)	CLEAN	none fired	no flag
frame00103	CLEAN	none fired	no flag
frame00103 (track 2)	CLEAN	none fired	no flag
frame00428	CLEAN	none fired	no flag
frame00105	CLEAN	none fired	no flag
frame00105 (track 2)	CLEAN	none fired	no flag
frame00391	FLAG	contact	119
frame00381	CLEAN	none fired	no flag
frame00098	CLEAN	none fired	no flag
frame00098 (track 2)	CLEAN	none fired	no flag
frame00418	CLEAN	none fired	no flag
frame00117	CLEAN	none fired	no flag
frame00413	CLEAN	none fired	no flag
frame00112	FLAG	contact	clip-level flag
frame00112 (track 2)	CLEAN	none fired	no flag
frame00102	CLEAN	none fired	no flag
frame00433	CLEAN	none fired	no flag
frame00095	CLEAN	none fired	no flag
frame00437	CLEAN	none fired	no flag
frame00094	CLEAN	none fired	no flag
frame00412	CLEAN	none fired	no flag
frame00445	FLAG	contact	78
frame00442	CLEAN	none fired	no flag
frame00092	CLEAN	none fired	no flag
frame00350	CLEAN	none fired	no flag
frame00093	CLEAN	none fired	no flag
frame00366	CLEAN	none fired	no flag
frame00396	CLEAN	none fired	no flag
frame00375	CLEAN	none fired	no flag
frame00082	CLEAN	none fired	no flag
frame00384	CLEAN	none fired	no flag
frame00373	CLEAN	none fired	no flag

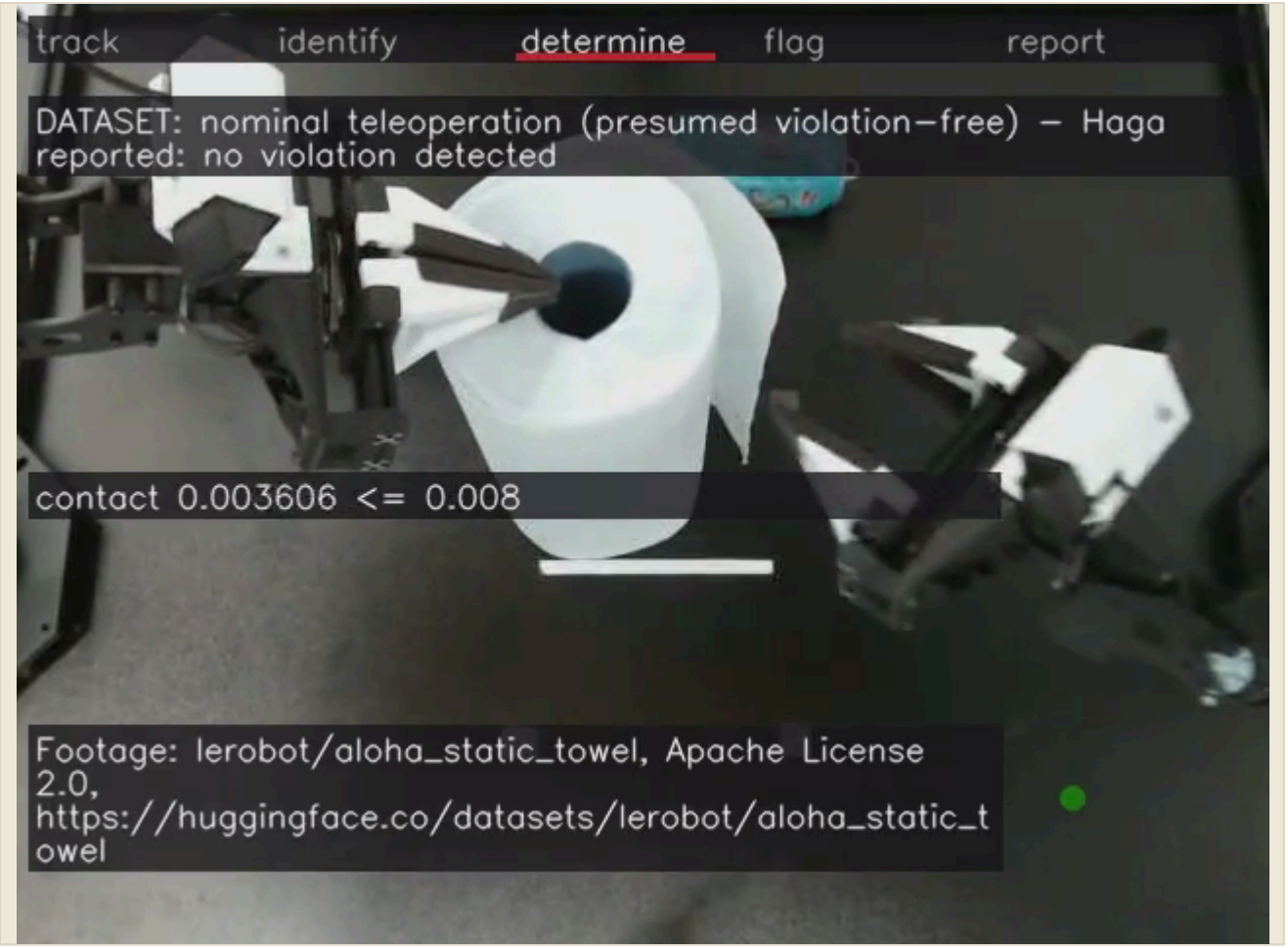
Clip	Verdict	Checks that fired	First flagged frame
frame00455	CLEAN	none fired	no flag

The hashes

the results document	`49e919e0051f693d718520ab5f378a8224f64a0365beaffef668f90e7bb352ec`
the artifact	`6ccce00dfc818f54bfe3e01516aa892e2e29c39103579ea340dc0eba102566f0`
the artifact file	`p2e1-v2-AlohaTowel.json`
the kernel	`mushoodhanif/haga-p2e1-real-footage-gate`
the seeds	`calibration 0-14, test 15-49, disjoint`

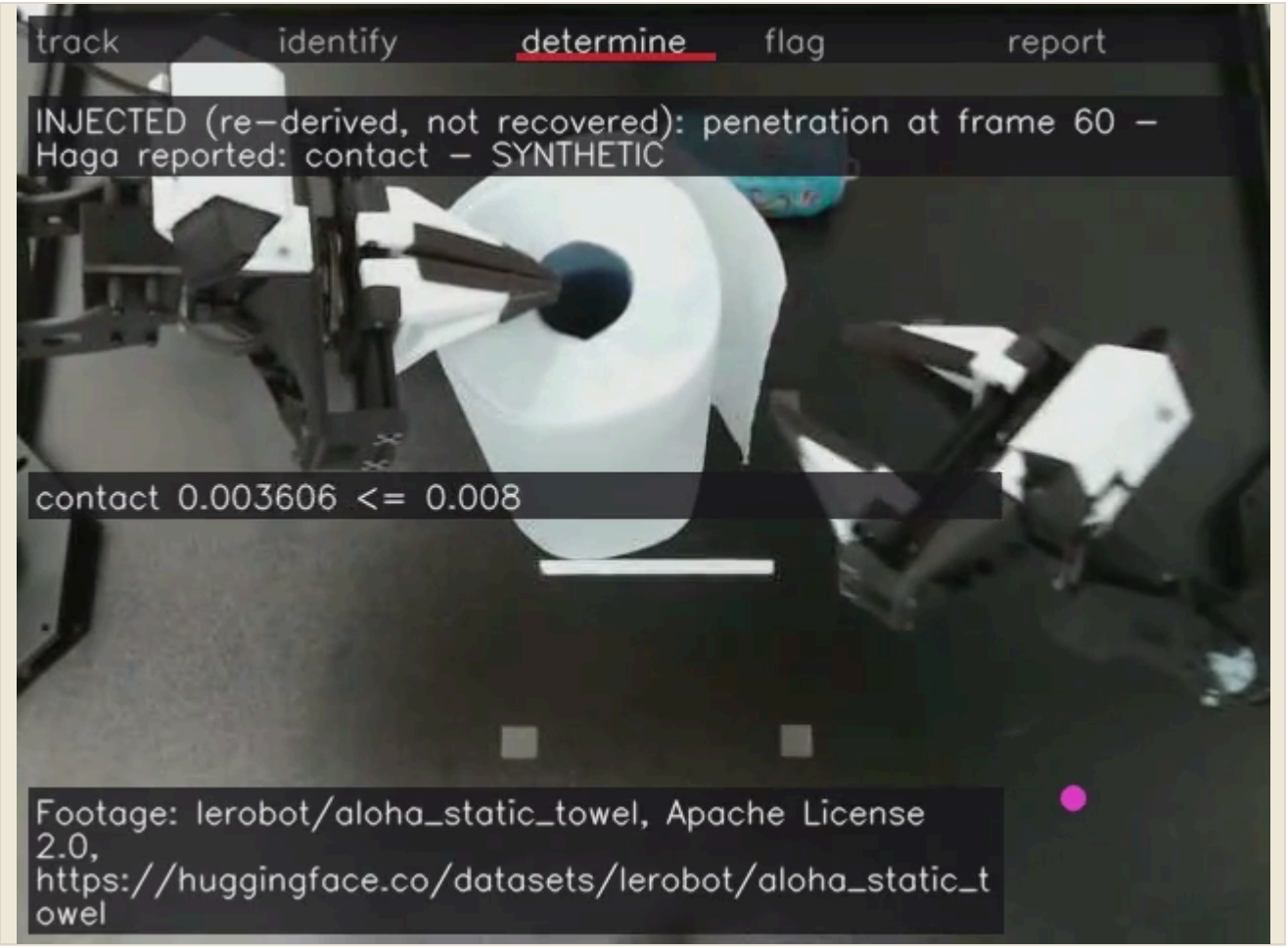
Sample report, public dataset. Every figure is the published run's own, and the run's artifact and manifest are the source of all of them. The overlay frames that follow are real frames of the published overlay videos.

frame00112 — towel



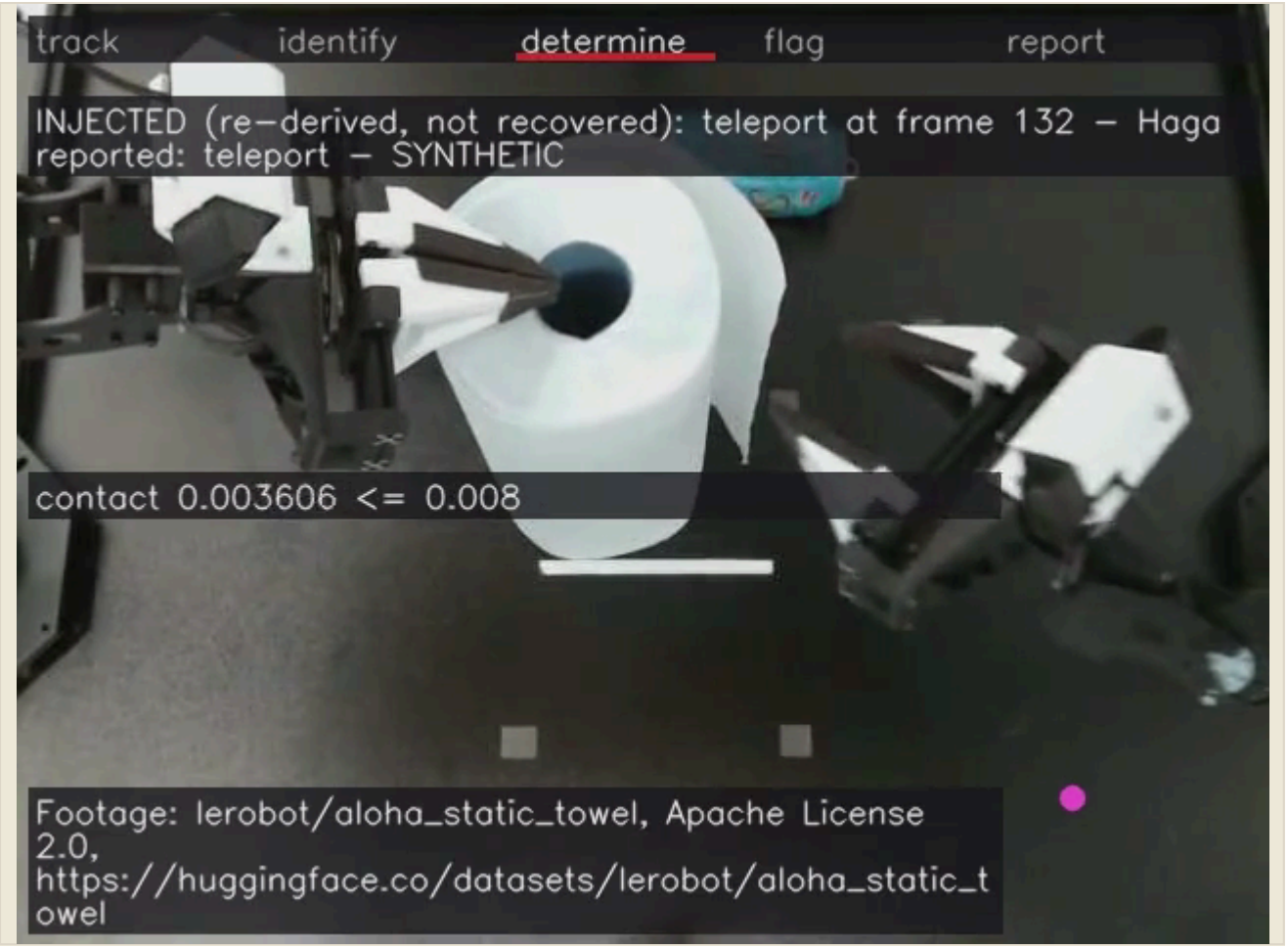
the verdict	frame00112
the cohort	towel
the source	https://uvlkw1fxgpeshjgp.public.blob.vercel-storage.com/experiments/p2e1-real-footage-gate/5a66eaf8e1c3957d-towel-frame00112_overlay.mp4
the file digest	5a66eaf8e1c3957d5b11b8cd32585773ac8dcb386e66d7acd4d3a19fa7bd512a
the bytes	221827

frame00112_penetration — towel



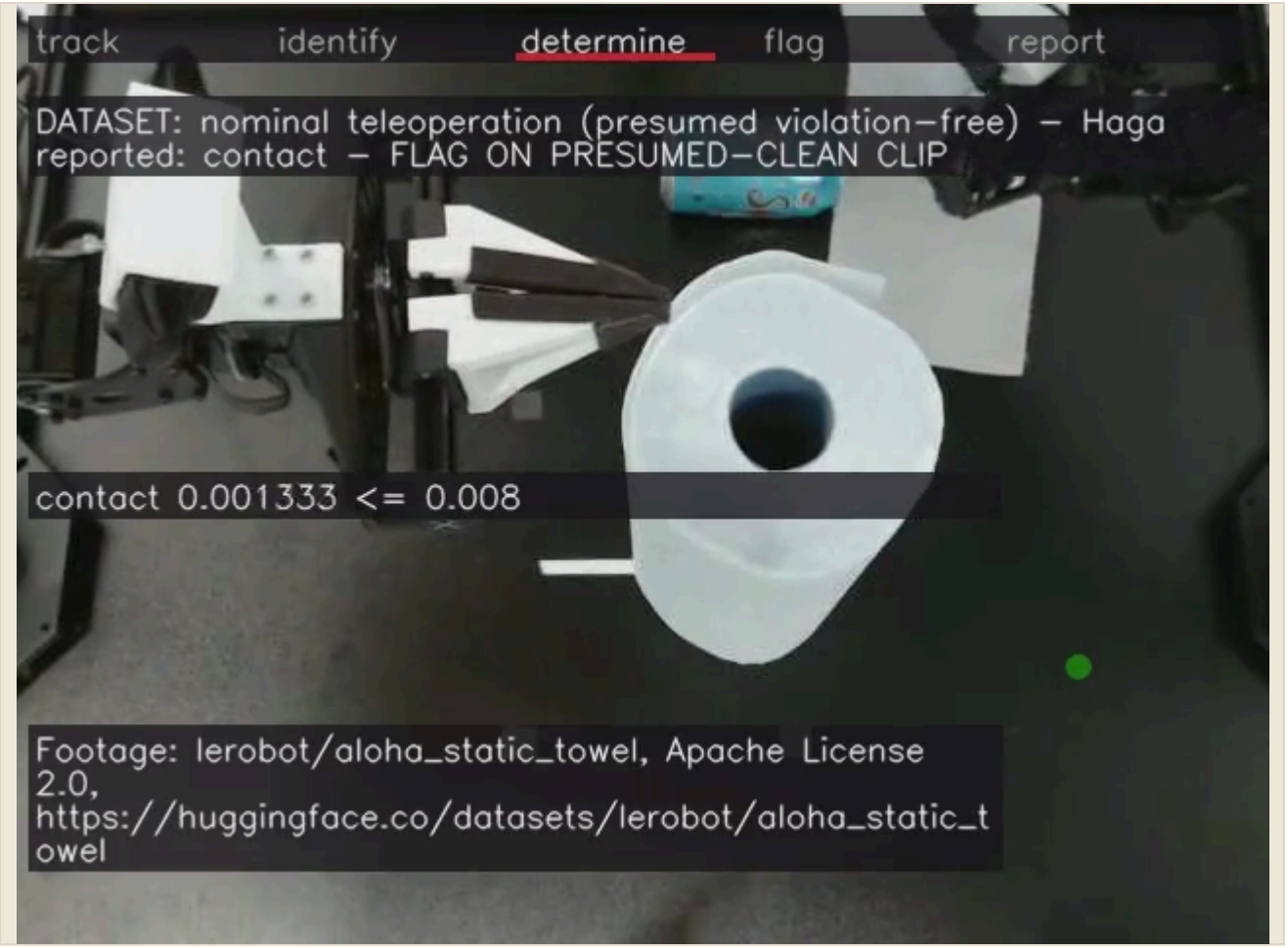
the verdict	frame00112_penetration
the cohort	towel
the source	https://uvlkw1fxgpeshjgp.public.blob.vercel-storage.com/experiments/p2e1-real-footage-gate/acf17e0d4b27b4bc-towel-frame00112_penetration_overlay.mp4
the file digest	acf17e0d4b27b4bcd059b5d2cdec8be5e5354a6a40b305107d036536c553fabb
the bytes	226895

frame00112_teleport — towel



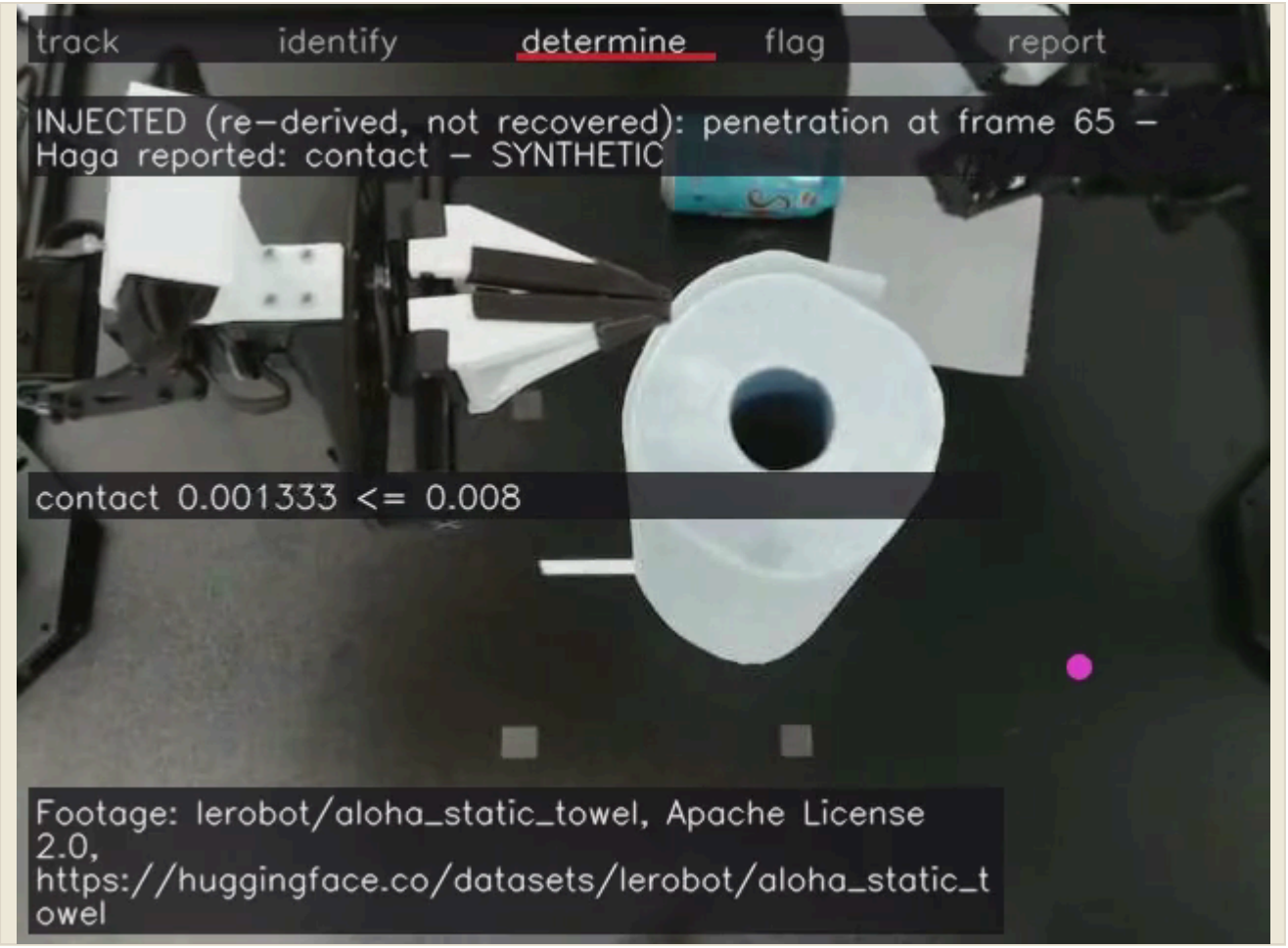
the verdict	frame00112_teleport
the cohort	towel
the source	https://uvlkw1fxgpeshjgp.public.blob.vercel-storage.com/experiments/p2e1-real-footage-gate/9f168d01e19177d5-towel-frame00112_teleport_overlay.mp4
the file digest	9f168d01e19177d545983a2fda4e17e6a3fa6be0d91de256129c0156403de45c
the bytes	220549

frame00391 — towel



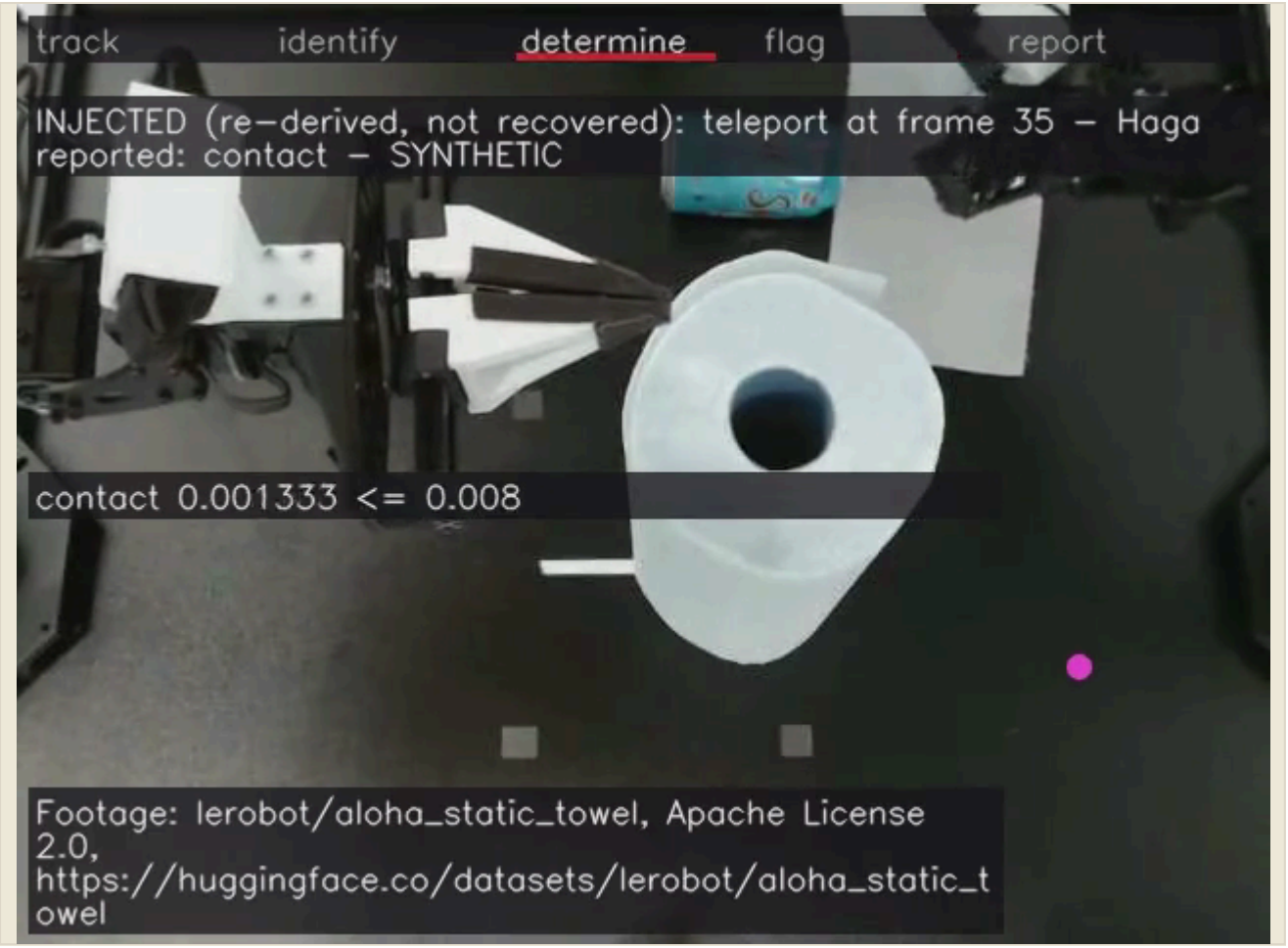
the verdict	frame00391
the cohort	towel
the source	https://uvlkw1fxgpeshjgp.public.blob.vercel-storage.com/experiments/p2e1-real-footage-gate/c6849109995d1cef-towel-frame00391_overlay.mp4
the file digest	c6849109995d1cefad1cc37ab7baa1c2f32835c412468c44963ce7b17f1831af
the bytes	181996

frame00391_penetration — towel



the verdict	frame00391_penetration
the cohort	towel
the source	https://uvlkw1fxgpeshjgp.public.blob.vercel-storage.com/experiments/p2e1-real-footage-gate/d3de63ca56f84235-towel-frame00391_penetration_overlay.mp4
the file digest	d3de63ca56f842357afef73037f7cae2841dcb0cd27d739f88cbaa72317e20d6
the bytes	184397

frame00391_teleport — towel



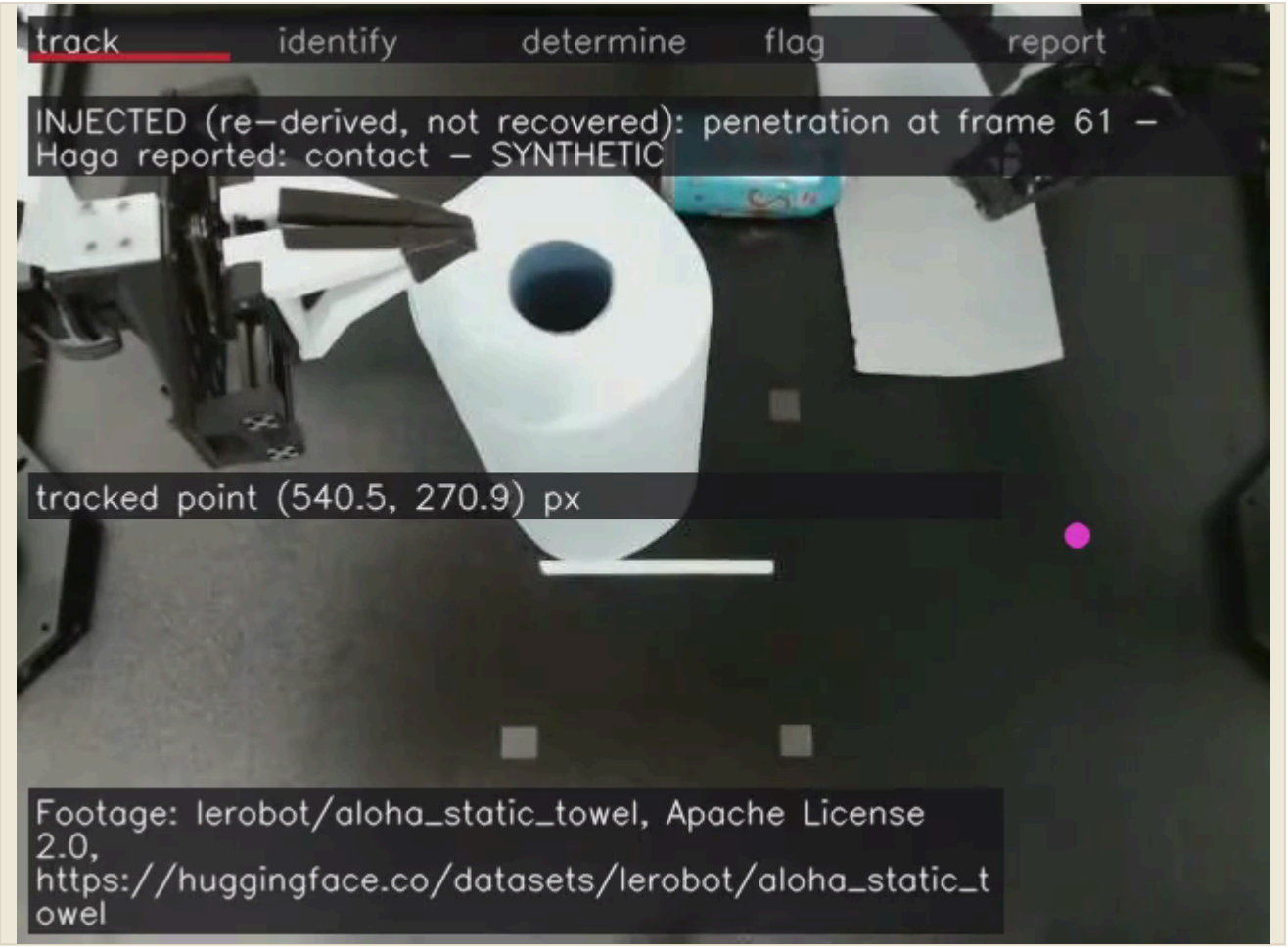
the verdict	frame00391_teleport
the cohort	towel
the source	https://uvlkw1fxgpeshjgp.public.blob.vercel-storage.com/experiments/p2e1-real-footage-gate/a4b2d692830b1f0c-towel-frame00391_teleport_overlay.mp4
the file digest	a4b2d692830b1f0c99fd317bd28890f999e595c6e49a3c75ea3f49b8d489cbe9
the bytes	190815

frame00445 — towel



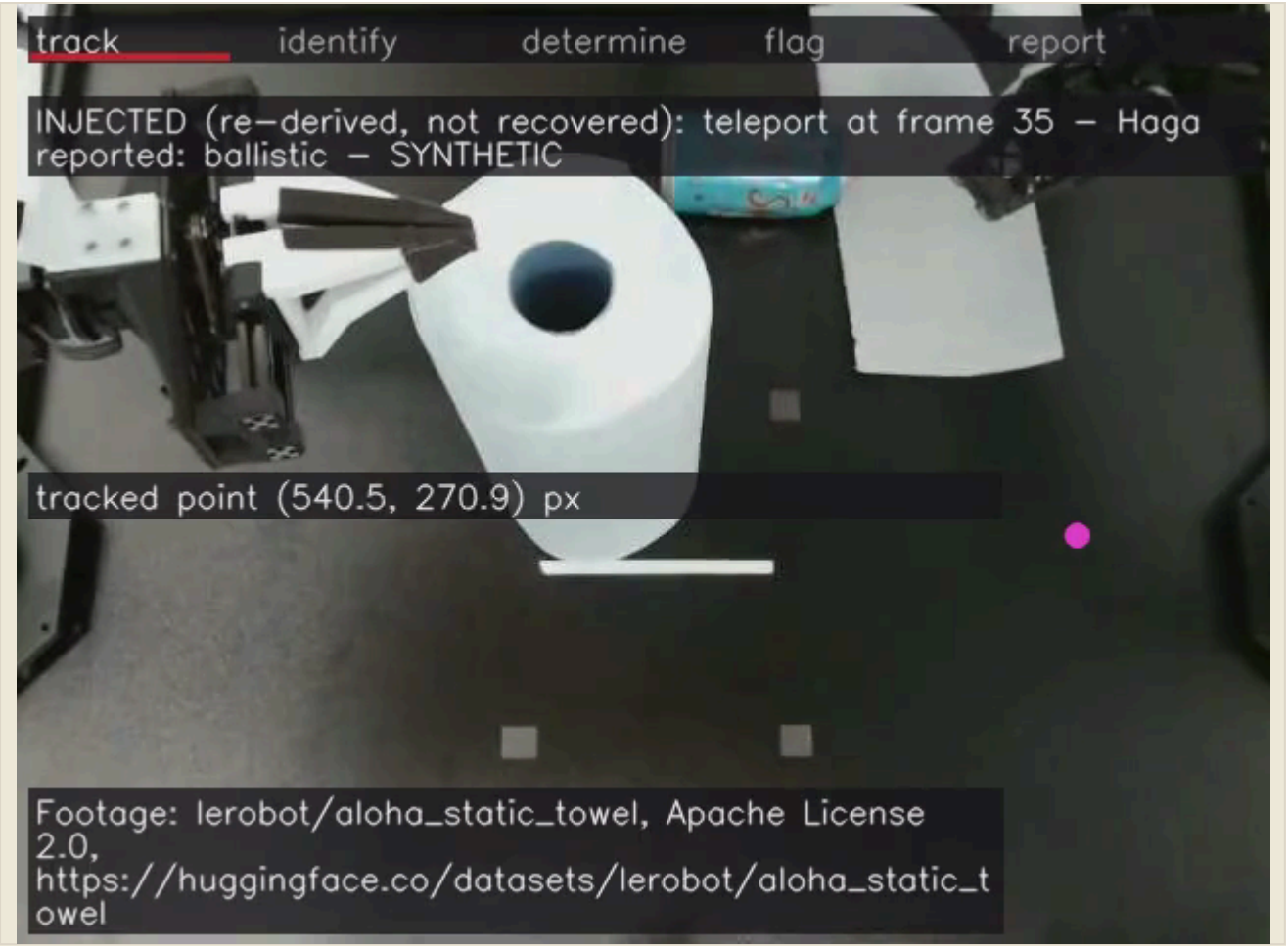
the verdict	frame00445
the cohort	towel
the source	https://uvlkw1fxgpeshjgp.public.blob.vercel-storage.com/experiments/p2e1-real-footage-gate/fb950c66e2e38d54-towel-frame00445_overlay.mp4
the file digest	fb950c66e2e38d5461c5e694e9107437511f9b968a11c67c2df7d90f647ad3cf
the bytes	104392

frame00445_penetration — towel



the verdict	frame00445_penetration
the cohort	towel
the source	https://uvlkw1fxgpeshjgp.public.blob.vercel-storage.com/experiments/p2e1-real-footage-gate/a56725b314be436c-towel-frame00445_penetration_overlay.mp4
the file digest	a56725b314be436c6507c4452f4c5b007bce171a90fc424553fd8bd4a1bcd209
the bytes	108634

frame00445_teleport — towel



the verdict	frame00445_teleport
the cohort	towel
the source	https://uvlkw1fxgpeshjgp.public.blob.vercel-storage.com/experiments/p2e1-real-footage-gate/33eb6d1dc1e1a4a3-towel-frame00445_teleport_overlay.mp4
the file digest	33eb6d1dc1e1a4a3badcacc270bc12062da7a122027c65be04e15b2c8c245341
the bytes	103312