

Complete System Performance Summary

Metric	Synthetic Training	ALOHA Training	Trained Inference
Final Accuracy	95.9%	99.4%	92.5%*
Best Val Loss	0.1086	0.0232	—
Pass@1	—	—	88.2%
Pass@3	—	—	98.2%
Precision/Recall	—	—	84.5% / 79.9%
F1 Score	—	—	82.1%
Inference Latency	—	—	12.6ms (p95)
Protocol Overhead	—	—	30.4%

* On synthetic test data (200 frames). Training accuracy measured on validation set.