

Task: Place the Visually Blocked Blocks on the Plate



Traditional Active Perception
Additional Perception Arm Required

MAAP +
Role Aware Imitation Learning (RAIL)

Multi Agent Active Perception(MAAP)
No Additional Arm Required

Dynamic Role Switch
(Manipulation/Perception)

Agent
Inputs



RAIL
Shared Encoder

Role
Classifier

Perception Head



Action
Chunk

Manipulation Head

