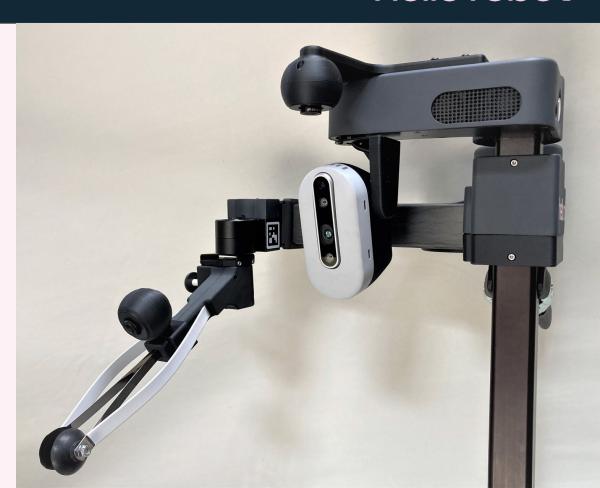
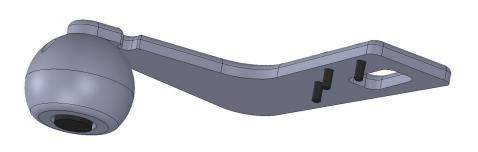
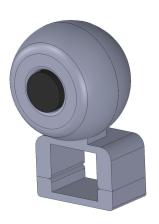
Stretch RE1 Teleop Kit Build

Rev 4.2022





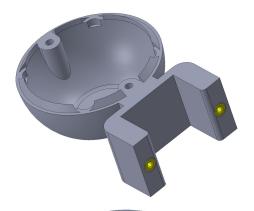
Head camera module



Gripper camera module

Hello Robot Part No	Vendor	Vendor Link	Vendor Part No	Qty	Notes
3DP-810_Head_Teleop_Mount	Hello Robot / Customer	N/A	3DP-810_Head_Teleop_Mount	1	3D printed PLA
3DP-808_Teleop_Camera_Mount_Front	Hello Robot / Customer	N/A	3DP-808_Teleop_Camera_Mount_Fr ont	2	3D printed PLA
3DP-809_Head_Teleop_Mount_Back	Hello Robot / Customer	N/A	3DP-809_Head_Teleop_Mount_Back	1	3D printed PLA
3DP-812_Gripper_Teleop_Mount_Bottom	Hello Robot / Customer	N/A	3DP-812_Gripper_Teleop_Mount_Bo ttom	1	3D printed PLA
3DP-811_Gripper_Teleop_ Mount_Back	Hello Robot / Customer	N/A	3DP- 811_Gripper_Teleop_ Mount_Back	1	3D printed PLA
HDW-205_96817A268_M2.5x8mm_Thread_Forming	McMaster	https://www.mcmaster.com/96817A268/	96817A268	8	
HDW-211_94180A321_M2.5x3.4mm_Heat_Set_Insert	McMaster	https://www.mcmaster.com/94180A321	94180A321	6	
HDW-316_91290A103_M2.5x10mm_SHCS	McMaster	https://www.mcmaster.com/91290A103	91290A103	6	
HDW-267_91239A140_M4x8mm_BHCS	McMaster	https://www.mcmaster.com/91239A140	91239A140	1	
HDW-330_94180A351_M4x4.7mm_HEAT-SET INSERT	McMaster	https://www.mcmaster.com/94180A351	94180A351	1	
HDW-802_91239A149_M4x14mm_BHCS_Black_Ox_Hex	McMaster	https://www.mcmaster.com/91239A149	91239A149	3	
ELE-801_Spinel_UC20MPE_F185_camera	Spinell	https://store.spinelelectronics.com/UC20M PE_F185	UC20MPE_F185	2	
CBL-701-USB_Teleop_Head	Hello Robot / Customer	N/A	CBL-701-USB_Teleop_Head	1	Custom USB A-JST ZF Contact Hello Robot fo details.
CBL-702-USB_Teleop_Wrist	Hello Robot / Customer	N/A	CBL-702-USB_Teleop_Wrist	1	Custom USB A-JST ZI Contact Hello Robot for details.

hello robot



Use a soldering iron to install the heat set inserts into the 4 PLA parts as shown

HDW-211_94180A321_M2.5 x3.4mm_Heat_Set_Insert

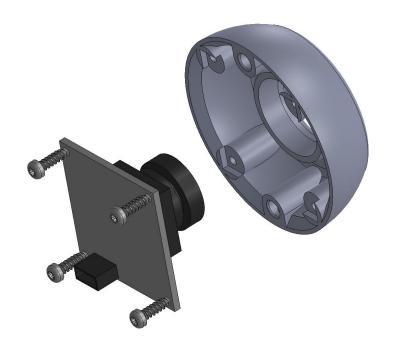
(x6)





HDW-330_94180A351_M4x4.7 mm_HEAT-SET INSERT





Install cameras using 8x self threading screws

Build 2 modules as shown

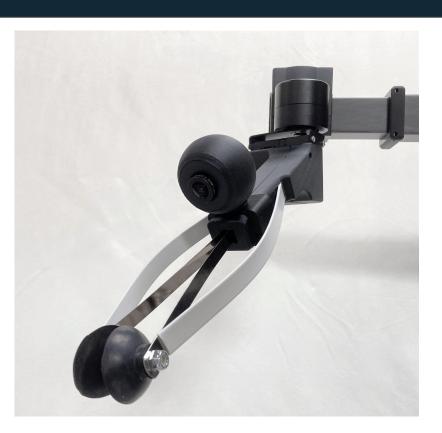




Wrist module

Attach CBL-702-USB_Teleop_Wrist to camera

Assemble wrist module as shown using x4 M2.5x10mm SHCS bolts



Wrist module

Clamp camera module to end of gripper as shown.

Connect USB-A of cable to RE1 wrist USB-A port



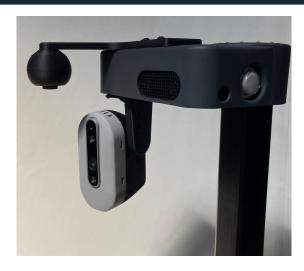
Head module

Attach CBL-701-USB_Teleop_Head to camera

Assemble head camera module using 2x M2.5x10mm SHCS bolts as shown



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Head module

Attach the camera to the mount plate using M4x8mm BHCS

Attach the mount plate to the RE1 head using 3x M4x15mm BHCS

Plug USB-A of camera cable into head USB-A port

