Supplementary Materials

User-centric Payload Design and Usability Testing for Agricultural Sensor Placement and Retrieval using Off-the-Shelf Micro Aerial Vehicles

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Additional multiple-choice VLOS questions
(See Figure S1 for full question set)

• After collection, I checked the FPV camera to verify that the sensor was collected (2 Yes, 4 No, 0 Sometimes).

• The top of the drop-off rods was difficult to see on the FPV monitor (2 Yes, 0 No, 4 I didn't check)

Additional multiple-choice BLOS questions
(See Figure S2 for full question set)

• After collection, I checked the FPV camera to verify that the sensor was collected (1 Yes, 3 No, 2 Sometimes).

• The top of the drop-off rods was difficult to see on the FPV monitor (3 Yes, 1 No, 2 I didn't check).

Additional Qualitative Questionnaire Questions

1. How would you describe your overall experience with collecting and deploying sensors within the line-of-sight and beyond the line-of-sight?
2. What did you like the most about using this system?
3. What did you like the least about using this system?
4. Did anything surprise you while conducting these tasks? If yes, what?
5. Did anything cause you frustration while conducting these tasks? If yes, what?

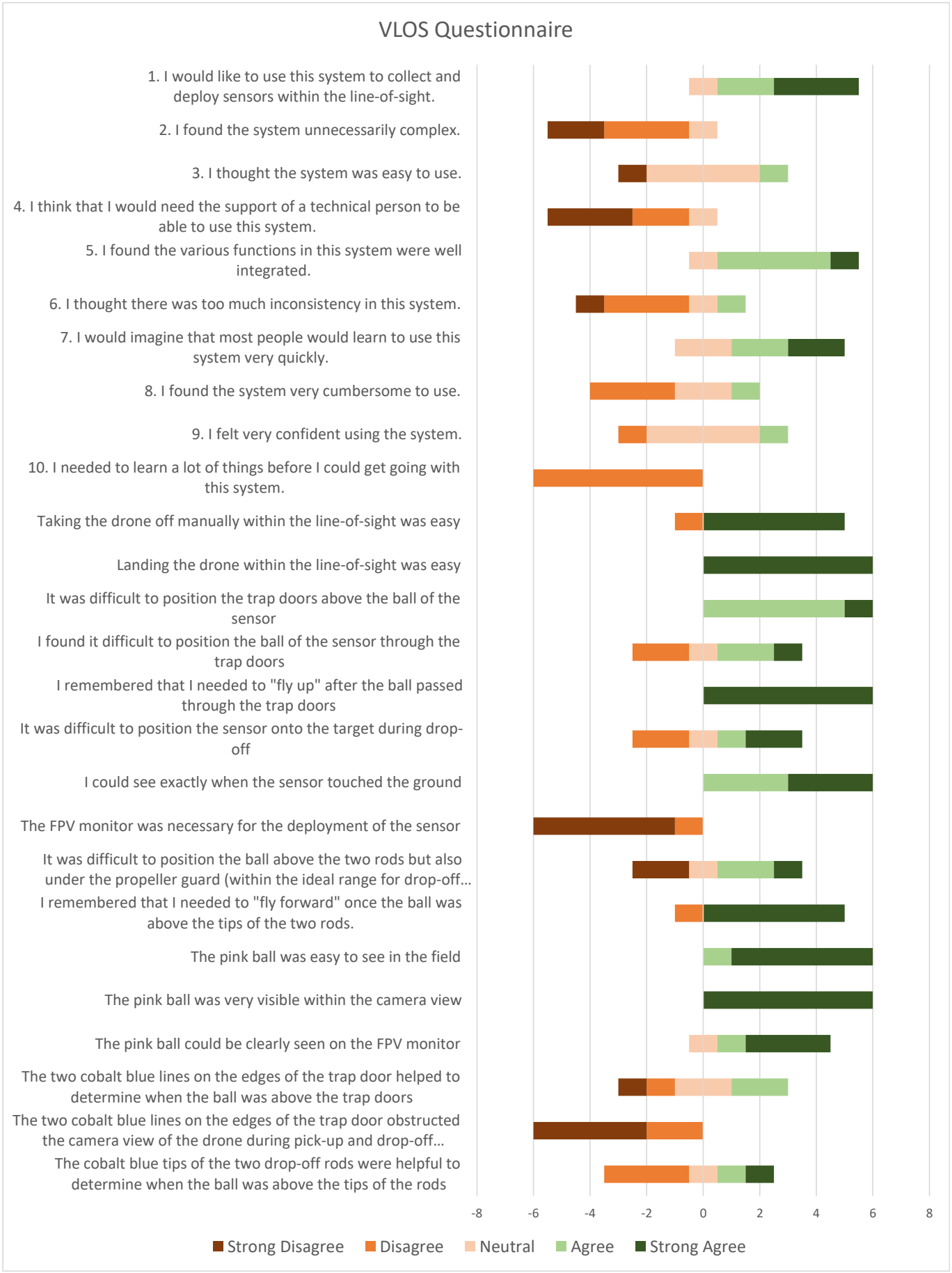

Figure S1: Likert Scale questions VLOS Questionnaire

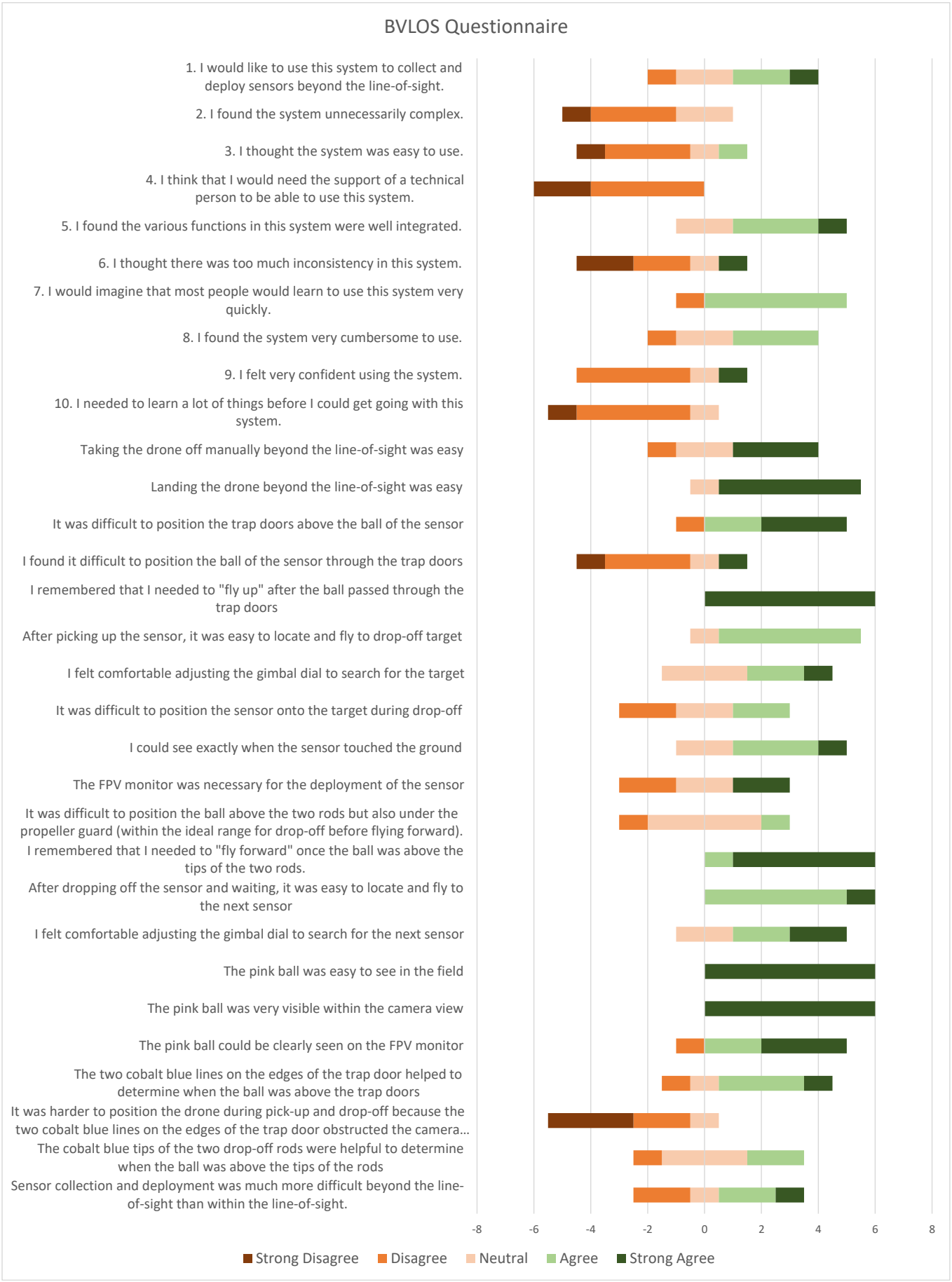

Figure S2: Likert Scale questions BVLOS Questionnaire