

**Legend:** ■ Negative □ Neutral ■ Positive

| True Label             | Predicted Label                  | Attribution Label      | Attribution Score | Word Importance  |
|------------------------|----------------------------------|------------------------|-------------------|--|
| SurroundingEnvironment | SurroundingEnvironment<br>(0.15) | SurroundingEnvironment | 1.17              | #s a<br>passenger<br>aircraft is<br>nearby . #/s                               |
| Normal                 | SurroundingEnvironment<br>(0.15) | SurroundingEnvironment | 1.53              | #s fly with<br>caution #/s   |
| Normal                 | SurroundingEnvironment<br>(0.15) | SurroundingEnvironment | -1.16             | #s account<br>not logged in<br>. #/s   |
| ParamViolation         | ParamViolation<br>(0.22)         | ParamViolation         | 0.65              | #s flight<br>altitude and<br>distance<br>restricted to<br>nnn and nnn .<br>#/s |
| Normal                 | SurroundingEnvironment<br>(0.15) | SurroundingEnvironment | -1.75             | #s check and<br>log in #/s   |
| Normal                 | SurroundingEnvironment<br>(0.15) | SurroundingEnvironment | 1.37              | #s<br>activetrack<br>flight paused<br>#/s                                      |
| Normal                 | SurroundingEnvironment<br>(0.15) | SurroundingEnvironment | -2.13             | #s aircraft<br>activetrack<br>available at<br>max speed .<br>#/s               |
| Normal                 | SurroundingEnvironment<br>(0.15) | SurroundingEnvironment | 0.24              | #s obstacle<br>avoidance is<br>not available<br>#/s                            |
| Normal                 | SurroundingEnvironment<br>(0.15) | SurroundingEnvironment | -2.13             | #s aircraft<br>activetrack<br>available at<br>max speed .<br>#/s               |
| Normal                 | ParamViolation<br>(0.21)         | ParamViolation         | -1.20             | #s when<br>exceeding<br>nnn , obstacle<br>avoidance is<br>not available<br>#/s |
| Normal                 | SurroundingEnvironment<br>(0.15) | SurroundingEnvironment | -1.61             | #s aircraft<br>activetrack<br>max speed of<br>nnn and                          |

|                     |                               |                        |       |   |
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|                     |                               |                        |       | obstacle avoidance functions normally #/s                         |
| HardwareFault       | HardwareFault (0.16)          | HardwareFault          | 1.36  | #s aircraft core board overheated #/s                             |
| Normal              | SurroundingEnvironment (0.15) | SurroundingEnvironment | -2.41 | #s aircraft entered fixed - wing mode . #/s                       |
| Normal              | SurroundingEnvironment (0.15) | SurroundingEnvironment | -1.06 | #s current flight speed is nnn . #/s                              |
| Normal              | SurroundingEnvironment (0.15) | SurroundingEnvironment | 0.98  | #s press c2 to exit #/s   |
| Normal              | SurroundingEnvironment (0.15) | SurroundingEnvironment | 0.38  | #s aircraft flight control unlocked #/s                           |
| RegulationViolation | RegulationViolation (0.19)    | RegulationViolation    | 0.93  | #s aircraft in restricted zones . #/s                             |
| Normal              | SurroundingEnvironment (0.15) | SurroundingEnvironment | -0.74 | #s check map to find recommended zones #/s                        |
| Normal              | SurroundingEnvironment (0.15) | SurroundingEnvironment | -1.90 | #s aircraft is in attitude mode , so that it will not hover . #/s |
| Normal              | SurroundingEnvironment (0.15) | SurroundingEnvironment | -1.46 | #s please fly with caution . #/s                                  |
| Normal              | SurroundingEnvironment (0.15) | SurroundingEnvironment | 1.10  | #s aircraft is in tripod mode . #/s                               |
| Normal              | SurroundingEnvironment (0.15) | SurroundingEnvironment | -2.02 | #s exit this mode and try again #/s                               |
| Normal              | SurroundingEnvironment (0.15) | SurroundingEnvironment | -0.99 | #s aircraft is returning to the starting point #/s                |
| ParamViolation      | ParamViolation (0.22)         | ParamViolation         | 1.38  | #s aircraft out of range #/s                                      |

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| <b>RegulationViolation</b> | <b>RegulationViolation<br/>(0.19)</b>    | <b>RegulationViolation</b>    | <b>1.58</b>  | #s approaching a no - fly zone . #/s                      |
| <b>Normal</b>              | <b>SurroundingEnvironment<br/>(0.15)</b> | <b>SurroundingEnvironment</b> | <b>-0.05</b> | #s rth may be affected . #/s                              |
| <b>Normal</b>              | <b>SurroundingEnvironment<br/>(0.15)</b> | <b>SurroundingEnvironment</b> | <b>1.53</b>  | #s fly with caution #/s                                   |
| <b>Normal</b>              | <b>SurroundingEnvironment<br/>(0.15)</b> | <b>SurroundingEnvironment</b> | <b>-1.54</b> | #s arrived at start point . #/s                           |
| <b>Normal</b>              | <b>SurroundingEnvironment<br/>(0.15)</b> | <b>SurroundingEnvironment</b> | <b>1.46</b>  | #s starting waypoint mission #/s                          |
| <b>Normal</b>              | <b>SurroundingEnvironment<br/>(0.15)</b> | <b>SurroundingEnvironment</b> | <b>-1.44</b> | #s auto landing initiated #/s                             |
| <b>Normal</b>              | <b>SurroundingEnvironment<br/>(0.15)</b> | <b>SurroundingEnvironment</b> | <b>0.80</b>  | #s auxiliary bottom light turned off #/s                  |
| <b>SoftwareFault</b>       | <b>SoftwareFault (0.18)</b>              | <b>SoftwareFault</b>          | <b>1.78</b>  | #s backward obstacle sensing is not functioning . #/s     |
| <b>HardwareFault</b>       | <b>HardwareFault (0.16)</b>              | <b>HardwareFault</b>          | <b>-0.89</b> | #s battery cell broken , please replace the battery #/s   |
| <b>HardwareFault</b>       | <b>HardwareFault (0.16)</b>              | <b>HardwareFault</b>          | <b>1.08</b>  | #s battery error . #/s                                    |
| <b>Normal</b>              | <b>SurroundingEnvironment<br/>(0.15)</b> | <b>SurroundingEnvironment</b> | <b>-1.71</b> | #s aircraft returning to home automatically #/s           |
| <b>HardwareFault</b>       | <b>HardwareFault (0.16)</b>              | <b>HardwareFault</b>          | <b>1.38</b>  | #s battery power low . #/s                                |
| <b>Normal</b>              | <b>SurroundingEnvironment<br/>(0.15)</b> | <b>SurroundingEnvironment</b> | <b>-0.34</b> | #s check battery status and charge or warm up battery #/s |
| <b>HardwareFault</b>       | <b>HardwareFault (0.16)</b>              | <b>HardwareFault</b>          | <b>1.47</b>  | #s cache space full #/s                                   |

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| SurroundingEnvironment | <b>SoftwareFault (0.18)</b>          | <b>SoftwareFault</b>          | <b>0.30</b>  | #s calibration<br>subject is too<br>close . #/s  |
| Normal                 | <b>SurroundingEnvironment (0.15)</b> | <b>SurroundingEnvironment</b> | <b>-1.39</b> | #s recalibrate<br>using a<br>subject that is<br>farther away<br>#/s                      |
| HardwareFault          | <b>HardwareFault (0.15)</b>          | <b>HardwareFault</b>          | <b>1.32</b>  | #s camera<br>busy , cannot<br>enter<br>playback #/s                                      |
| SoftwareFault          | <b>SoftwareFault (0.18)</b>          | <b>SoftwareFault</b>          | <b>1.44</b>  | #s cannot<br>enable<br>intelligent<br>flight mode<br>#/s                                 |
| HardwareFault          | <b>HardwareFault (0.16)</b>          | <b>HardwareFault</b>          | <b>1.39</b>  | #s low<br>battery #/s  |
| SoftwareFault          | <b>SoftwareFault (0.18)</b>          | <b>SoftwareFault</b>          | <b>0.54</b>  | #s cannot<br>start return<br>to home due<br>to weak gps<br>signal #/s                    |
| SoftwareFault          | <b>SoftwareFault (0.18)</b>          | <b>SoftwareFault</b>          | <b>0.99</b>  | #s cannot<br>start self -<br>timer . #/s   |
| SoftwareFault          | <b>ParamViolation (0.22)</b>         | <b>ParamViolation</b>         | <b>-0.61</b> | #s exposure<br>time is too<br>long #/s   |
| SoftwareFault          | <b>SoftwareFault (0.18)</b>          | <b>SoftwareFault</b>          | <b>-0.28</b> | #s cannot<br>switch flight<br>mode . #/s   |
| Normal                 | <b>SurroundingEnvironment (0.15)</b> | <b>SurroundingEnvironment</b> | <b>0.65</b>  | #s turn on "<br>multiple flight<br>modes " to<br>enable atti<br>and sport<br>modes . #/s |
| SoftwareFault          | <b>SoftwareFault (0.18)</b>          | <b>SoftwareFault</b>          | <b>0.99</b>  | #s cannot<br>track subject<br>#/s  |
| SurroundingEnvironment | <b>SoftwareFault (0.18)</b>          | <b>SoftwareFault</b>          | <b>-1.05</b> | #s no image<br>#/s   |
| Normal                 | <b>SurroundingEnvironment (0.15)</b> | <b>SurroundingEnvironment</b> | <b>-1.13</b> | #s please<br>retry #/s   |

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| <b>SoftwareFault</b>          | <b>SoftwareFault (0.18)</b>          | <b>SoftwareFault</b>          | <b>0.99</b>  | #s cannot track subject #/s  |
| <b>SurroundingEnvironment</b> | <b>SoftwareFault (0.18)</b>          | <b>SoftwareFault</b>          | <b>-1.66</b> | #s subject too large #/s   |
| <b>Normal</b>                 | <b>SurroundingEnvironment (0.15)</b> | <b>SurroundingEnvironment</b> | <b>-1.44</b> | #s move away and retry #/s   |
| <b>Normal</b>                 | <b>SurroundingEnvironment (0.15)</b> | <b>SurroundingEnvironment</b> | <b>-1.40</b> | #s color display in the liveview has been enhanced . #/s                               |
| <b>Normal</b>                 | <b>SurroundingEnvironment (0.15)</b> | <b>SurroundingEnvironment</b> | <b>-2.01</b> | #s videos and photos will still be shot in d - log mode #/s                            |
| <b>HardwareFault</b>          | <b>HardwareFault (0.16)</b>          | <b>HardwareFault</b>          | <b>1.50</b>  | #s compass abnormal . #/s  |
| <b>Normal</b>                 | <b>SurroundingEnvironment (0.15)</b> | <b>SurroundingEnvironment</b> | <b>-0.65</b> | #s solution : 1 . ensure there are no magnets or metal objects near the aircraft . #/s |
| <b>Normal</b>                 | <b>SurroundingEnvironment (0.15)</b> | <b>SurroundingEnvironment</b> | <b>-0.89</b> | #s the ground or walls may contain metal . #/s   |
| <b>Normal</b>                 | <b>SurroundingEnvironment (0.15)</b> | <b>SurroundingEnvironment</b> | <b>1.26</b>  | #s move away from sources of interference before attempting flight . #/s               |
| <b>Normal</b>                 | <b>SurroundingEnvironment (0.15)</b> | <b>SurroundingEnvironment</b> | <b>0.08</b>  | #s 2 . calibrate compass before takeoff #/s  |
| <b>HardwareFault</b>          | <b>HardwareFault (0.16)</b>          | <b>HardwareFault</b>          | <b>1.28</b>  | #s compass error #/s   |

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|------------------------|-------------------------------|------------------------|-------|---|
|                        |                               |                        |       | #s compass  |
| HardwareFault          | SoftwareFault (0.16)          | SoftwareFault          | 1.70  | error ,<br>calibration<br>required #/s                  |
| HardwareFault          | HardwareFault (0.16)          | HardwareFault          | 1.35  | #s compass<br>error . #/s                               |
| HardwareFault          | HardwareFault (0.16)          | HardwareFault          | 1.35  | #s compass<br>error . #/s                               |
| HardwareFault          | HardwareFault (0.16)          | HardwareFault          | 1.30  | #s compass<br>disconnected<br>#/s                       |
| HardwareFault          | HardwareFault (0.16)          | HardwareFault          | 1.35  | #s compass<br>error . #/s                               |
| SurroundingEnvironment | SurroundingEnvironment (0.21) | SurroundingEnvironment | 0.89  | #s magnetic<br>filed<br>interference .<br>#/s           |
| Normal                 | SurroundingEnvironment (0.15) | SurroundingEnvironment | -0.87 | #s exit p -<br>gps mode #/s                             |
| SoftwareFault          | HardwareFault (0.16)          | HardwareFault          | 0.56  | #s compass<br>initialization<br>failed . #/s            |
| Normal                 | SurroundingEnvironment (0.15) | SurroundingEnvironment | -1.44 | #s restart<br>aircraft #/s                              |
| HardwareFault          | HardwareFault (0.16)          | HardwareFault          | 1.38  | #s critical<br>low battery .<br>#/s                     |
| Normal                 | SurroundingEnvironment (0.15) | SurroundingEnvironment | -2.42 | #s aircraft in<br>auto power<br>off protection<br>. #/s |
| Normal                 | SurroundingEnvironment (0.15) | SurroundingEnvironment | -0.96 | #s forced<br>landing in<br>progress #/s                 |
| HardwareFault          | HardwareFault (0.16)          | HardwareFault          | 1.38  | #s critical<br>low battery .<br>#/s                     |
| Normal                 | SurroundingEnvironment (0.15) | SurroundingEnvironment | 0.57  | #s aircraft<br>landing<br>automatically<br>#/s          |
| HardwareFault          | HardwareFault (0.16)          | HardwareFault          | 1.38  | #s critical<br>low battery .<br>#/s                     |
| Normal                 | SurroundingEnvironment (0.15) | SurroundingEnvironment | -1.36 | #s return to<br>home or land<br>promptly #/s            |

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| <b>HardwareFault</b> | <b>HardwareFault (0.16)</b>          | <b>HardwareFault</b>          | <b>1.75</b>  | #s critically low power . #/s  |
| <b>Normal</b>        | <b>SurroundingEnvironment (0.15)</b> | <b>SurroundingEnvironment</b> | <b>-0.32</b> | #s aircraft is landing #/s<br>#s critically low power . #/s  |
| <b>HardwareFault</b> | <b>HardwareFault (0.16)</b>          | <b>HardwareFault</b>          | <b>1.75</b>  | #s critically low power . #/s  |
| <b>Normal</b>        | <b>SurroundingEnvironment (0.15)</b> | <b>SurroundingEnvironment</b> | <b>1.07</b>  | #s aircraft landing . #/s  |
| <b>Normal</b>        | <b>SurroundingEnvironment (0.15)</b> | <b>SurroundingEnvironment</b> | <b>1.07</b>  | #s aircraft landing . #/s<br>#s throttle up to reduce the speed of descent and use sticks to avoid obstacles #/s |
| <b>Normal</b>        | <b>SurroundingEnvironment (0.15)</b> | <b>SurroundingEnvironment</b> | <b>-1.71</b> | #s critically low voltage warning . #/s  |
| <b>HardwareFault</b> | <b>HardwareFault (0.16)</b>          | <b>HardwareFault</b>          | <b>1.66</b>  | #s aircraft will be forced to land #/s   |
| <b>Normal</b>        | <b>SurroundingEnvironment (0.15)</b> | <b>SurroundingEnvironment</b> | <b>-1.24</b> | #s critically low voltage . #/s  |
| <b>HardwareFault</b> | <b>HardwareFault (0.16)</b>          | <b>HardwareFault</b>          | <b>1.77</b>  | #s aircraft will land #/s  |
| <b>Normal</b>        | <b>SurroundingEnvironment (0.15)</b> | <b>SurroundingEnvironment</b> | <b>0.68</b>  | #s data recorder file index is 15 . #/s  |
| <b>Normal</b>        | <b>SurroundingEnvironment (0.15)</b> | <b>SurroundingEnvironment</b> | <b>-1.82</b> | #s data recorder file index is 17 . #/s  |
| <b>Normal</b>        | <b>SurroundingEnvironment (0.15)</b> | <b>SurroundingEnvironment</b> | <b>-2.15</b> | #s data recorder file index is 30 . #/s  |
| <b>Normal</b>        | <b>SurroundingEnvironment (0.15)</b> | <b>SurroundingEnvironment</b> | <b>-1.37</b> | #s data recorder file index is 45 . #/s  |
| <b>Normal</b>        | <b>SurroundingEnvironment (0.15)</b> | <b>SurroundingEnvironment</b> | <b>-1.41</b> | #s data recorder file  |
|                      |                                      | <b>SurroundingEnvironment</b> |              |  |

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|------------------------|-------------------------------|------------------------|-------|---|
| Normal                 | (0.15)                        | SurroundingEnvironment | -1.41 | index is 46 . #/s   |
| Normal                 | SurroundingEnvironment (0.15) | SurroundingEnvironment | -0.25 | #s data recorder file index is 65 . #/s                         |
| Normal                 | SurroundingEnvironment (0.15) | SurroundingEnvironment | -0.96 | #s disable sd card read and write protection or change card #/s |
| CommunicationIssue     | CommunicationIssue (0.17)     | CommunicationIssue     | 1.78  | #s downlink lost . #/s  |
| Normal                 | SurroundingEnvironment (0.15) | SurroundingEnvironment | 2.61  | #s downlink restored ( after 0m 2 . 9s ) . #/s                  |
| Normal                 | SurroundingEnvironment (0.15) | SurroundingEnvironment | -1.10 | #s drone is vibrating #/s                                       |
| Normal                 | SurroundingEnvironment (0.15) | SurroundingEnvironment | -1.44 | #s entered cruise control mode . #/s                            |
| Normal                 | SurroundingEnvironment (0.15) | SurroundingEnvironment | -1.45 | #s press c1 or c2 to exit #/s                                   |
| ParamViolation         | ParamViolation (0.22)         | ParamViolation         | 1.86  | #s excessive attitude angle detected #/s                        |
| SoftwareFault          | SoftwareFault (0.18)          | SoftwareFault          | 2.03  | #s forward obstacle avoidance has stopped working #/s           |
| Normal                 | SurroundingEnvironment (0.15) | SurroundingEnvironment | -0.49 | #s exit backward sensing system #/s                             |
| SurroundingEnvironment | SurroundingEnvironment (0.21) | SurroundingEnvironment | 0.90  | #s ambient light is too weak #/s                                |
| Normal                 | SurroundingEnvironment (0.15) | SurroundingEnvironment | -1.20 | #s exited visual avoidance system . #/s                         |
| SoftwareFault          | SoftwareFault (0.18)          | SoftwareFault          | 1.33  | #s exiting gps mode :   |

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| <b>ParamViolation</b> | <b>ParamViolation<br/>(0.21)</b>         | <b>ParamViolation</b>         | <b>1.75</b>  | unknown<br>error #/s<br>#s extra<br>payload<br>detected . #/s  |
| <b>Normal</b>         | <b>SurroundingEnvironment<br/>(0.15)</b> | <b>SurroundingEnvironment</b> | <b>1.22</b>  | #s flight<br>performance<br>will be<br>affected . #/s  |
| <b>Normal</b>         | <b>SurroundingEnvironment<br/>(0.15)</b> | <b>SurroundingEnvironment</b> | <b>1.53</b>  | #s fly with<br>caution #/s<br>#s forward<br>obstacle   |
| <b>SoftwareFault</b>  | <b>SoftwareFault (0.18)</b>              | <b>SoftwareFault</b>          | <b>-0.72</b> | sensing is not<br>functioning .<br>#/s<br>#s forward<br>obstacle   |
| <b>SoftwareFault</b>  | <b>SoftwareFault (0.18)</b>              | <b>SoftwareFault</b>          | <b>2.11</b>  | sensing not<br>responding<br>#/s<br>#s gimbal<br>motor   |
| <b>HardwareFault</b>  | <b>HardwareFault (0.16)</b>              | <b>HardwareFault</b>          | <b>2.15</b>  | overloaded .<br>#/s<br>#s check<br>whether   |
| <b>Normal</b>         | <b>SurroundingEnvironment<br/>(0.15)</b> | <b>SurroundingEnvironment</b> | <b>-1.57</b> | gimbal can<br>rotate freely<br>#/s<br>#s gimbal  |
| <b>HardwareFault</b>  | <b>HardwareFault (0.16)</b>              | <b>HardwareFault</b>          | <b>-0.42</b> | pitch limit<br>reached . #/s<br>#s ground<br>plain . #/s   |
| <b>Normal</b>         | <b>SurroundingEnvironment<br/>(0.15)</b> | <b>SurroundingEnvironment</b> | <b>1.30</b>  | #s safe to<br>land . #/s<br>#s high<br>altitude . #/s  |
| <b>ParamViolation</b> | <b>SurroundingEnvironment<br/>(0.20)</b> | <b>SurroundingEnvironment</b> | <b>-1.53</b> | #s aircraft<br>braking<br>distance<br>increased and<br>flight time<br>decreased .<br>#/s<br>#s fly with<br>caution #/s |
| <b>Normal</b>         | <b>SurroundingEnvironment<br/>(0.15)</b> | <b>SurroundingEnvironment</b> | <b>-1.62</b> |  |
| <b>Normal</b>         | <b>SurroundingEnvironment<br/>(0.15)</b> | <b>SurroundingEnvironment</b> | <b>1.53</b>  |  |

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| SurroundingEnvironment | <b>SurroundingEnvironment<br/>(0.21)</b> | <b>SurroundingEnvironment</b> | <b>1.43</b>  | #s high wind velocity . #/s   |
| Normal                 | <b>SurroundingEnvironment<br/>(0.15)</b> | <b>SurroundingEnvironment</b> | <b>-1.04</b> | #s ensure the aircraft remains within your line of sight and fly with caution . #/s |
| SurroundingEnvironment | <b>SurroundingEnvironment<br/>(0.21)</b> | <b>SurroundingEnvironment</b> | <b>1.43</b>  | #s high wind velocity . #/s   |
| Normal                 | <b>SurroundingEnvironment<br/>(0.15)</b> | <b>SurroundingEnvironment</b> | <b>-1.04</b> | #s ensure the aircraft remains within your line of sight and fly with caution . #/s |
| SurroundingEnvironment | <b>SurroundingEnvironment<br/>(0.21)</b> | <b>SurroundingEnvironment</b> | <b>1.43</b>  | #s high wind velocity . #/s   |
| Normal                 | <b>SurroundingEnvironment<br/>(0.15)</b> | <b>SurroundingEnvironment</b> | <b>1.45</b>  | #s fly with caution and land in a safe place asap . #/s                             |
| Normal                 | <b>SurroundingEnvironment<br/>(0.15)</b> | <b>SurroundingEnvironment</b> | <b>-1.80</b> | #s high - altitude flight #/s   |
| Normal                 | <b>SurroundingEnvironment<br/>(0.15)</b> | <b>SurroundingEnvironment</b> | <b>1.53</b>  | #s fly with caution #/s   |
| Normal                 | <b>SurroundingEnvironment<br/>(0.15)</b> | <b>SurroundingEnvironment</b> | <b>-1.15</b> | #s aircraft braking distance is extended #/s  |
| Normal                 | <b>SurroundingEnvironment<br/>(0.15)</b> | <b>SurroundingEnvironment</b> | <b>0.87</b>  | #s flight time is shortened . #/s   |
| Normal                 | <b>SurroundingEnvironment<br/>(0.15)</b> | <b>SurroundingEnvironment</b> | <b>1.54</b>  | #s home point updated . #/s   |
| ParamViolation         | <b>SoftwareFault (0.18)</b>              | <b>SoftwareFault</b>          | <b>0.39</b>  | #s imu attitude restricted . #/s  |
| Normal                 | <b>SurroundingEnvironment<br/>(0.15)</b> | <b>SurroundingEnvironment</b> | <b>0.73</b>  | #s ensure aircraft is level #/s   |

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| <b>SoftwareFault</b>          | <b>SurroundingEnvironment (0.15)</b> | <b>SurroundingEnvironment</b> | <b>-1.88</b> | #s imu not calibrated . #/s                         |
| <b>Normal</b>                 | <b>SurroundingEnvironment (0.15)</b> | <b>SurroundingEnvironment</b> | <b>-1.06</b> | #s calibrate imu #/s                                |
| <b>Normal</b>                 | <b>SurroundingEnvironment (0.15)</b> | <b>SurroundingEnvironment</b> | <b>1.35</b>  | #s landing canceled . #/s                           |
| <b>Normal</b>                 | <b>SurroundingEnvironment (0.15)</b> | <b>SurroundingEnvironment</b> | <b>1.21</b>  | #s landing gear function restored #/s               |
| <b>Normal</b>                 | <b>SurroundingEnvironment (0.15)</b> | <b>SurroundingEnvironment</b> | <b>-0.33</b> | #s landing gear paused . #/s                        |
| <b>Normal</b>                 | <b>SurroundingEnvironment (0.15)</b> | <b>SurroundingEnvironment</b> | <b>-0.09</b> | #s landing gear raising . #/s                       |
| <b>Normal</b>                 | <b>SurroundingEnvironment (0.15)</b> | <b>SurroundingEnvironment</b> | <b>-1.53</b> | #s home point recorded #/s                          |
| <b>Normal</b>                 | <b>ParamViolation (0.21)</b>         | <b>ParamViolation</b>         | <b>-1.03</b> | #s live stream video frame rate less than 9hz . #/s |
| <b>Normal</b>                 | <b>SurroundingEnvironment (0.15)</b> | <b>SurroundingEnvironment</b> | <b>1.53</b>  | #s fly with caution #/s                             |
| <b>HardwareFault</b>          | <b>HardwareFault (0.16)</b>          | <b>HardwareFault</b>          | <b>1.50</b>  | #s low power . #/s                                  |
| <b>Normal</b>                 | <b>SurroundingEnvironment (0.15)</b> | <b>SurroundingEnvironment</b> | <b>1.23</b>  | #s aircraft is returning to the home point . #/s    |
| <b>HardwareFault</b>          | <b>HardwareFault (0.16)</b>          | <b>HardwareFault</b>          | <b>1.50</b>  | #s low power . #/s                                  |
| <b>Normal</b>                 | <b>SurroundingEnvironment (0.15)</b> | <b>SurroundingEnvironment</b> | <b>0.92</b>  | #s returning home . #/s                             |
| <b>SurroundingEnvironment</b> | <b>SurroundingEnvironment (0.21)</b> | <b>SurroundingEnvironment</b> | <b>0.89</b>  | #s magnetic field interference . #/s                |
| <b>Normal</b>                 | <b>SurroundingEnvironment (0.15)</b> | <b>SurroundingEnvironment</b> | <b>1.23</b>  | #s exit p - gps mode . #/s                          |
| <b>HardwareFault</b>          | <b>HardwareFault (0.16)</b>          | <b>HardwareFault</b>          | <b>-0.30</b> | #s yaw error . #/s                                  |
|                               |                                      |                               |              | #s manned   |

|                               |  |  |              |   |
|-------------------------------|--|--|--------------|---|
| <b>SurroundingEnvironment</b> | <b>SurroundingEnvironment</b><br><b>(0.21)</b> | <b>SurroundingEnvironment</b><br><b>(0.21)</b> | <b>1.14</b>  | aircraft<br>detected<br>nearby. #/s   |
| <b>Normal</b>                 | <b>SurroundingEnvironment</b><br><b>(0.15)</b> | <b>SurroundingEnvironment</b>                  | <b>1.53</b>  | #s fly with<br>caution #/s  |
| <b>ParamViolation</b>         | <b>ParamViolation</b><br><b>(0.21)</b>         | <b>ParamViolation</b>                          | <b>1.17</b>  | #s max<br>altitude<br>approached.<br>#/s  |
| <b>Normal</b>                 | <b>SurroundingEnvironment</b><br><b>(0.15)</b> | <b>SurroundingEnvironment</b>                  | <b>-2.15</b> | #s wait for<br>the gps<br>satellite<br>signal<br>recovery<br>before ascend<br>#/s |
| <b>ParamViolation</b>         | <b>ParamViolation</b><br><b>(0.22)</b>         | <b>ParamViolation</b>                          | <b>1.38</b>  | #s max flight<br>altitude<br>reached. #/s   |
| <b>Normal</b>                 | <b>SurroundingEnvironment</b><br><b>(0.15)</b> | <b>SurroundingEnvironment</b>                  | <b>-2.34</b> | #s adjust in<br>main<br>controller<br>settings if<br>necessary #/s                |
| <b>ParamViolation</b>         | <b>ParamViolation</b><br><b>(0.22)</b>         | <b>ParamViolation</b>                          | <b>1.33</b>  | #s max flight<br>distance<br>reached. #/s   |
| <b>Normal</b>                 | <b>SurroundingEnvironment</b><br><b>(0.15)</b> | <b>SurroundingEnvironment</b>                  | <b>-2.26</b> | #s adjust in<br>main<br>controller<br>settings if<br>necessary.<br>#/s            |
| <b>ParamViolation</b>         | <b>ParamViolation</b><br><b>(0.22)</b>         | <b>ParamViolation</b>                          | <b>1.25</b>  | #s maximum<br>flight<br>distance<br>reached. #/s                                  |
| <b>Normal</b>                 | <b>SurroundingEnvironment</b><br><b>(0.15)</b> | <b>SurroundingEnvironment</b>                  | <b>1.14</b>  | #s adjust the<br>distance in<br>mc settings if<br>required. #/s                   |
| <b>HardwareFault</b>          | <b>HardwareFault</b> <b>(0.16)</b>             | <b>HardwareFault</b>                           | <b>2.03</b>  | #s mobile<br>device cpu<br>fully loaded.<br>#/s                                   |
| <b>Normal</b>                 | <b>SurroundingEnvironment</b><br><b>(0.15)</b> | <b>SurroundingEnvironment</b>                  | <b>-1.45</b> | #s related<br>performance<br>will be  |

|               |                                      |                               |              |   |
|---------------|--------------------------------------|-------------------------------|--------------|---|
|               |                                      |                               |              | affected . #/s  |
|               |                                      |                               |              | #s mobile device  |
|               |                                      |                               |              | version too old to support  |
|               |                                      |                               |              | hd image transmission   |
| SoftwareFault | <b>ParamViolation (0.15)</b>         | <b>ParamViolation</b>         | <b>-1.99</b> | and the image transmission mode has been switch to normal mode . #/s          |
| Normal        | <b>SurroundingEnvironment (0.15)</b> | <b>SurroundingEnvironment</b> | <b>0.20</b>  | #s motor is blocked . #/s   |
| HardwareFault | <b>HardwareFault (0.16)</b>          | <b>HardwareFault</b>          | <b>0.45</b>  | #s motor stuck . #/s  |
| Normal        | <b>SurroundingEnvironment (0.15)</b> | <b>SurroundingEnvironment</b> | <b>-0.95</b> | #s check for objects blocking motor or contact dji support for assistance #/s |
| Normal        | <b>SurroundingEnvironment (0.15)</b> | <b>SurroundingEnvironment</b> | <b>0.78</b>  | #s motors started . #/s   |
| SoftwareFault | <b>SoftwareFault (0.18)</b>          | <b>SoftwareFault</b>          | <b>1.83</b>  | #s no gps signal . #/s  |
| Normal        | <b>HardwareFault (0.16)</b>          | <b>HardwareFault</b>          | <b>1.04</b>  | #s aircraft unable to hover . #/s   |
| Normal        | <b>SurroundingEnvironment (0.15)</b> | <b>SurroundingEnvironment</b> | <b>1.53</b>  | #s fly with caution #/s   |
| SoftwareFault | <b>SoftwareFault (0.18)</b>          | <b>SoftwareFault</b>          | <b>1.83</b>  | #s no gps signal . #/s  |
| Normal        | <b>HardwareFault (0.16)</b>          | <b>HardwareFault</b>          | <b>-1.35</b> | #s unable to hover . #/s  |
| Normal        | <b>SurroundingEnvironment (0.15)</b> | <b>SurroundingEnvironment</b> | <b>1.53</b>  | #s fly with caution #/s   |
| Normal        | <b>SurroundingEnvironment (0.15)</b> | <b>SurroundingEnvironment</b> | <b>1.39</b>  | #s obstacle avoidance disabled . #/s  |
| Normal        | <b>SurroundingEnvironment (0.15)</b> | <b>SurroundingEnvironment</b> | <b>-1.01</b> | #s landing gear lowered . #/s   |

|                        |   |                               |              |   |
|------------------------|---|-------------------------------|--------------|---|
| Normal                 | <b>SurroundingEnvironment</b> <b>(0.15)</b> | <b>SurroundingEnvironment</b> | <b>1.39</b>  | #s obstacle avoidance disabled . #/s                        |
| Normal                 | <b>SurroundingEnvironment</b> <b>(0.15)</b> | <b>SurroundingEnvironment</b> | <b>1.39</b>  | #s obstacle avoidance disabled . #/s                        |
| Normal                 | <b>SurroundingEnvironment</b> <b>(0.15)</b> | <b>SurroundingEnvironment</b> | <b>-1.01</b> | #s landing gear lowered . #/s                               |
| Normal                 | <b>SurroundingEnvironment</b> <b>(0.15)</b> | <b>SurroundingEnvironment</b> | <b>-1.35</b> | #s obstacle avoidance has been disabled . #/s               |
| Normal                 | <b>SurroundingEnvironment</b> <b>(0.15)</b> | <b>SurroundingEnvironment</b> | <b>-1.51</b> | #s precision landing #/s                                    |
| Normal                 | <b>SurroundingEnvironment</b> <b>(0.15)</b> | <b>SurroundingEnvironment</b> | <b>-1.98</b> | #s quickshot has ended #/s                                  |
| Normal                 | <b>SurroundingEnvironment</b> <b>(0.15)</b> | <b>SurroundingEnvironment</b> | <b>0.78</b>  | #s recenter gimbal pan #/s                                  |
| Normal                 | <b>SurroundingEnvironment</b> <b>(0.15)</b> | <b>SurroundingEnvironment</b> | <b>-0.66</b> | #s rectifying aircraft position #/s                         |
| SurroundingEnvironment | <b>SurroundingEnvironment</b> <b>(0.21)</b> | <b>SurroundingEnvironment</b> | <b>1.24</b>  | #s remote controller in high interference environment . #/s |
| Normal                 | <b>SurroundingEnvironment</b> <b>(0.15)</b> | <b>SurroundingEnvironment</b> | <b>-0.85</b> | #s manually adjust flight route or return to home #/s       |
| Normal                 | <b>SurroundingEnvironment</b> <b>(0.15)</b> | <b>SurroundingEnvironment</b> | <b>-2.06</b> | #s return - to - home altitude : 65ft #/s                   |
| Normal                 | <b>SurroundingEnvironment</b> <b>(0.15)</b> | <b>SurroundingEnvironment</b> | <b>-1.75</b> | #s return - to - home altitude : 98ft . #/s                 |
| Normal                 | <b>SurroundingEnvironment</b> <b>(0.15)</b> | <b>SurroundingEnvironment</b> | <b>1.50</b>  | #s rth : ascending to rth altitude . #/s                    |
|                        |   | <b>SurroundingEnvironment</b> |              | #s rth : heading  |

|                               |                                      |                               |              |   |
|-------------------------------|--------------------------------------|-------------------------------|--------------|---|
| <b>Normal</b>                 | <b>(0.15)</b>                        | <b>SurroundingEnvironment</b> | <b>1.87</b>  | alignment . #/s   |
| <b>Normal</b>                 | <b>SurroundingEnvironment (0.15)</b> | <b>SurroundingEnvironment</b> | <b>-1.08</b> | #s rth altitude : 65ft . #/s                                  |
| <b>Normal</b>                 | <b>SurroundingEnvironment (0.15)</b> | <b>SurroundingEnvironment</b> | <b>-0.97</b> | #s rth altitude : 98ft . #/s                                  |
| <b>CommunicationIssue</b>     | <b>CommunicationIssue (0.17)</b>     | <b>CommunicationIssue</b>     | <b>0.96</b>  | #s signal lost . #/s  |
| <b>Normal</b>                 | <b>SurroundingEnvironment (0.15)</b> | <b>SurroundingEnvironment</b> | <b>-1.87</b> | #s aircraft returning to home point #/s                       |
| <b>Normal</b>                 | <b>SurroundingEnvironment (0.15)</b> | <b>SurroundingEnvironment</b> | <b>-1.06</b> | #s sprayer turned on #/s                                      |
| <b>SurroundingEnvironment</b> | <b>SurroundingEnvironment (0.21)</b> | <b>SurroundingEnvironment</b> | <b>1.66</b>  | #s strong wind warning . #/s                                  |
| <b>SoftwareFault</b>          | <b>SoftwareFault (0.18)</b>          | <b>SoftwareFault</b>          | <b>2.07</b>  | #s aircraft unable to return to home automatically . #/s      |
| <b>Normal</b>                 | <b>SurroundingEnvironment (0.15)</b> | <b>SurroundingEnvironment</b> | <b>-0.71</b> | #s lower altitude immediately and return to home manually #/s |
| <b>Normal</b>                 | <b>SurroundingEnvironment (0.15)</b> | <b>SurroundingEnvironment</b> | <b>-1.49</b> | #s switched to s ( sport ) - mode . #/s                       |
| <b>Normal</b>                 | <b>SurroundingEnvironment (0.15)</b> | <b>SurroundingEnvironment</b> | <b>-2.50</b> | #s switched to t ( tripod ) - mode . #/s                      |
| <b>Normal</b>                 | <b>SurroundingEnvironment (0.15)</b> | <b>SurroundingEnvironment</b> | <b>-1.33</b> | #s take off in p - mode #/s                                   |
| <b>SoftwareFault</b>          | <b>HardwareFault (0.16)</b>          | <b>HardwareFault</b>          | <b>0.15</b>  | #s vision sensor error . #/s                                  |
| <b>Normal</b>                 | <b>SurroundingEnvironment (0.15)</b> | <b>SurroundingEnvironment</b> | <b>-1.72</b> | #s contact dji support for assistance #/s                     |
|                               |                                      |                               |              | #s vision   |

|                     |  |                               |       |   |
|---------------------|--|-------------------------------|-------|---|
| Normal              | <b>SurroundingEnvironment<br/>(0.15)</b> | <b>SurroundingEnvironment</b> | -2.07 | systems and<br>obstacle<br>avoidance<br>disabled #/s<br>#s waypoint<br>mission<br>paused #/s                    |
| Normal              | <b>SurroundingEnvironment<br/>(0.15)</b> | <b>SurroundingEnvironment</b> | -0.82 | #s mission<br>paused #/s  |
| SoftwareFault       | <b>SoftwareFault (0.18)</b>              | <b>SoftwareFault</b>          | 1.38  | #s weak gps<br>signal . #/s<br>#s aircraft is<br>in attitude<br>mode and<br>hovering may<br>be unstable.<br>#/s |
| Normal              | <b>SurroundingEnvironment<br/>(0.15)</b> | <b>SurroundingEnvironment</b> | -1.60 | mode and<br>hovering may<br>be unstable.<br>#/s   |
| Normal              | <b>SurroundingEnvironment<br/>(0.15)</b> | <b>SurroundingEnvironment</b> | -1.22 | #s fly with<br>caution . #/s  |
| CommunicationIssue  | <b>CommunicationIssue<br/>(0.17)</b>     | <b>CommunicationIssue</b>     | 1.22  | #s weak<br>signal . #/s   |
| Normal              | <b>SurroundingEnvironment<br/>(0.15)</b> | <b>SurroundingEnvironment</b> | 1.18  | #s adjust<br>antennas #/s<br>#s your<br>aircraft is   |
| RegulationViolation | <b>RegulationViolation<br/>(0.19)</b>    | <b>RegulationViolation</b>    | 2.65  | flying in an<br>altitude zone<br>( nnn ) . #/s<br>#s please fly   |
| Normal              | <b>SurroundingEnvironment<br/>(0.15)</b> | <b>SurroundingEnvironment</b> | -0.76 | with caution<br>#/s   |