Table 1. Description of Sequence Attribute

|  |  |  |
| --- | --- | --- |
| Acronym | Attribute | Description |
| IV | Illumination Variation | The illumination in the target region is significantly changed (ΔI >10%). |
| OCC | Occlusion | The target is partially or fully occluded. |
| FM | Fast Motion | The motion of ground truth center is larger than 20 pixels in two successive frames. |
| MB | Motion Blur | The captured image is blurred due to camera motion. |
| BC | Background Clutter | The background has a significant variation in color, pattern or texture. |
| MC | Motion Changes | The direction of the target motion changes suddenly. |
| OV | Out of View | The target leaves the camera view. |

Table 2. Sequence Attributes

|  |  |  |
| --- | --- | --- |
| **Image Sequence** | **Reference** | **Attribute** |
| **Sequence 1** | [1] | BC, OCC, FM |
| **Sequence 2** | [2] | FM |
| **Sequence 3** | [3] | BC, FM |
| **Sequence 4** | [4] | BC |
| **Sequence 5** | [4] | IV |
| **Sequence 6** | [5] | IV, MB, OCC, FM |
| **Sequence 7** | [3] | BC, FM |
| **Sequence 8** | [6] | OCC |
| **Sequence 9** | [7] | OCC, FM, OV |
| **Sequence 10** | [7] | IV, MB, OCC, FM |
| **Sequence 11** | [7] | IV |
| **Sequence 12** | [8] |  |
| **Sequence 13** | [9] | MC |
| **Sequence 14** | [9] | MC |
| **Sequence 15** | [9] | FM, MC |
| **Sequence 16** | [10] | OCC, MC, OV |
| **Sequence 17** | [11] | FM |
| **Sequence 18** | [11] | IV, FM |
| **Sequence 19** | [11] |  |
| **Sequence 20** | [11] | MB, OCC, FM, MC |
| **Sequence 21** | [12] | IV, OCC, MC |
| **Sequence 22** | [12] | IV, OCC, MC |
| **Sequence 23** | [12] | BC, IV |
| **Sequence 24** | [11] | BC, MC |
| **Sequence 25** | [4] | BC, IV, MB, FM, MC |
| **Sequence 26** | Recorded by authors | BC, FM, MC, OV |
| **Sequence 27** | Recorded by authors | BC, IV, MC |
| **Sequence 28** | Recorded by authors | BC, FM |
| **Sequence 29** | Recorded by authors | BC, FM |
| **Sequence 30** | Recorded by authors | BC, FM, MC |
| **Sequence 31** | Recorded by authors | BC, FM, MC |
| **Sequence 32** | Recorded by authors | BC, IV, FM |
| **Sequence 33** | Recorded by authors | BC, FM, MC, OV |
| **Sequence 34** | Recorded by authors | BC, OCC, FM, MC |
| **Sequence 35** | Recorded by authors | BC, OCC, MC, OV |
| **Sequence 36** | Recorded by authors | BC, OCC, MC |
| **Sequence 37** | Recorded by authors | BC, MB, MC |
| **Sequence 38** | Recorded by authors | BC, IV, MB, OCC |
| **Sequence 39** | Recorded by authors | BC, IV, MB, FM, MC |
| **Sequence 40** | Recorded by authors | BC, IV, FM, MC |
| **Sequence 41** | Recorded by authors | BC, MB, FM, MC |
| **Sequence 42** | Recorded by authors | BC, FM, MC |
| **Sequence 43** | Recorded by authors | BC, OCC |
| **Sequence 44** | Recorded by authors | BC, IV, FM, MC |
| **Sequence 45** | Recorded by authors | BC, IV, FM, MC |
| **Sequence 46** | Recorded by authors | BC, IV, MB |
| **Sequence 47** | Recorded by authors | BC, IV, MC |
| **Sequence 48** | Recorded by authors | BC, MB, OCC, FM |
| **Sequence 49** | Recorded by authors | BC, IV, MB |
| **Sequence 50** | Recorded by authors | BC, IV, MB, FM, OV |

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