**Post Processing**

**source**

video-dev\utilities\utils-post-process.cpp

**video file**

traffic640x480.avi

extract 200 x 200 region of interest

**filters**

|  |  |  |
| --- | --- | --- |
|  | 640x480 | 320x240 |
| medianBlur | 7 | 5 |
| dilate | 21x21 | 11x11 |
| minBlobArea | 702 (>) | 256 (>) |
| maxDistJoin | 10 (<=) | 6 |
|  |  |  |
|  | blob after dilation | blob after dilation |
| 1x1 | 21x21 -> area: 441 | 11x11 -> area: 121 |
| 3x3 | 23x23 -> area: 526 | 13x13 -> area: 169 |
| 4x4 | 24x24 -> area: 576 | **13x13 -> area: 196** |
| 5x5 | 25x25 -> area: 600 | 15x15 -> area: 225 |
| 6X6 | 26x26 -> area: 676 | 16x16 -> area: 256 |
| 7x6 | **27x26 -> area: 702** | 17x16 -> area: 272 |

all filters above applied 🡪 create large mask (blue rectangle below)

|  |  |
| --- | --- |
| **two cars in opposite direction** | [054 - 067 two cars opposite\post debug\debug\_61\_comment.png](file:///D:\Users\Holger\counter\054%20-%20067%20two%20cars%20opposite\post%20debug\debug_61_comment.png) |
| **with trailer** | [360 - 392 with trailer\post debug\debug\_370\_comment.png](360%20-%20392%20with%20trailer/post%20debug/debug_370_comment.png) |
| **y position must match** | [265 - 290 noise suppression\debug\_277\_comment.png](265%20-%20290%20noise%20suppression/debug_277_comment.png) |
|  |  |
|  |  |