**综合上述所有结果得到5Km纯视频方案如下表：**

**做20组实验**，停车范围在**原停车地点+-300米范围之内均匀分布**，检测其参数和事件的空间和时间分辨率。

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 参数检测周期 | 参数时间颗粒度 | 参数空间颗粒度 | 事件时间颗粒度（直接触发+间接，120周期） | 事件空间颗粒度 | 布设设备数量（个） | 直接检测范围（米） | 间接检测范围（米） | 检出事件时间（秒） |
| 布设间隔150米 | 120 s | 2min | 150 | 5.5 | 16 | 34 | 2720 | 2280 | 10 |
| 布设间隔210米 | 120 s | 2min | 210 | 14 | 20.85 | 24 | 1920 | 3080 | 30 |
| 布设间隔300米 | 120 s | 2min | 300 | 26.5 | 72.2 | 17 | 1360 | 3640 | 30-40 |

o(1 flow) -------v(10.8%)------->-----------v(89.2%)--------------- -----o (0 flow) ------------->

Random600

间隔150米

|  |  |  |  |
| --- | --- | --- | --- |
| 组号 | 停车位置（米） | 事件时间颗粒度 | 事件空间颗粒度 |
| 1 | 1082 | 10 | 32 |
| 2 | 934 | 10 | 34 |
| 3 | 763 | 10 | 13 |
| 4 | 1060 | 10 | 10 |
| 5 | 1107 | 10 | 57 |
| 6 | 787 | 10 | 37 |
| 7 | 834 | 0 | 0 |
| 8 | 764 | 10 | 14 |
| 9 | 1158 | 0 | 0 |
| 10 | 1212 | 10 | 12 |
| 11 | 912 | 10 | 12 |
| 12 | 863 | 0 | 0 |
| 13 | 1234 | 10 | 34 |
| 14 | 1187 | 0 | 0 |
| 15 | 986 | 0 | 0 |
| 16 | 713 | 0 | 0 |
| 17 | 1138 | 0 | 0 |
| 18 | 864 | 0 | 0 |
| 19 | 965 | 10 | 65 |
| 20 | 1280 | 0 | 0 |
|  | 平均 | 5.5 | 16 |

(150-80)\*(70/150)+0\*(80/150)=32.6

间隔210米

|  |  |  |  |
| --- | --- | --- | --- |
| 组号 | 停车位置（米） | 事件时间颗粒度 | 事件空间颗粒度 |
| 1 | 1252 | 0 | 0 |
| 2 | 1070 | 20 | 10 |
| 3 | 850 | 0 | 0 |
| 4 | 1230 | 0 | 0 |
| 5 | 1050 | 0 | 0 |
| 6 | 930 | 30 | 80 |
| 7 | 875 | 30 | 25 |
| 8 | 1049 | 0 | 0 |
| 9 | 830 | 0 | 0 |
| 10 | 876 | 30 | 26 |
| 11 | 759 | 30 | 91 |
| 12 | 982 | 0 | 0 |
| 13 | 854 | 20 | 4 |
| 14 | 1128 | 30 | 68 |
| 15 | 1293 | 30 | 23 |
| 16 | 931 | 30 | 81 |
| 17 | 1254 | 0 | 0 |
| 18 | 1069 | 30 | 9 |
| 19 | 1050 | 0 | 0 |
| 20 | 1227 | 0 | 0 |
|  | 平均 | 14 | 20.85 |

(210-80)\*(130/210)+0=80.5

间隔300米

|  |  |  |  |
| --- | --- | --- | --- |
| 组号 | 停车位置（米） | 事件时间颗粒度（秒） | 事件空间颗粒度（米） |
| 1 | 1052 | 40 | 142 |
| 2 | 1001 | 40 | 91 |
| 3 | 952 | 40 | 42 |
| 4 | 1195 | 0 | 0 |
| 5 | 977 | 40 | 67 |
| 6 | 999 | 40 | 89 |
| 7 | 1021 | 40 | 111 |
| 8 | 907 | 0 | 0 |
| 9 | 1068 | 40 | 142 |
| 10 | 805 | 40 | 105 |
| 11 | 1170 | 0 | 0 |
| 12 | 1236 | 30 | 26 |
| 13 | 1000 | 0 | 90 |
| 14 | 755 | 40 | 145 |
| 15 | 1218 | 20 | 8 |
| 16 | 1069 | 40 | 141 |
| 17 | 779 | 40 | 131 |
| 18 | 724 | 40 | 114 |
| 19 | 907 | 0 | 0 |
| 20 | 830 | 0 | 0 |
|  | 平均 | 26.5 | 72.2 |

(300-80)\*(220/300)=161.3

间隔150

|  |  |  |  |
| --- | --- | --- | --- |
| 组号 | 停车位置（米） | 事件时间颗粒度（秒） | 事件空间颗粒度（米） |
| 1 | 984 | 0 | 0 |
| 2 | 922 | 10 | 22 |
| 3 | 967 | 10 | 67 |
| 4 | 935 | 10 | 35 |
| 5 | 962 | 10 | 62 |
| 6 | 948 | 10 | 48 |
| 7 | 1045 | 0 | 0 |
| 8 | 920 | 10 | 20 |
| 9 | 939 | 10 | 39 |
| 10 | 967 | 10 | 67 |
| 11 | 915 | 10 | 15 |
| 12 | 986 | 0 | 0 |
| 13 | 923 | 10 | 23 |
| 14 | 1022 | 0 | 0 |
| 15 | 987 | 0 | 0 |
| 16 | 959 | 10 | 59 |
| 17 | 998 | 0 | 0 |
| 18 | 1008 | 0 | 0 |
| 19 | 1018 | 0 | 0 |
| 20 | 966 | 10 | 66 |
|  | 平均 | 6 | 26.15 |

(150-80)\*(70/150)+0\*(80/150)=32.6

间隔210

|  |  |  |  |
| --- | --- | --- | --- |
| 组号 | 停车位置（米） | 事件时间颗粒度（秒） | 事件空间颗粒度（米） |
| 1 | 931 | 30 | 81 |
| 2 | 967 | 30 | 117 |
| 3 | 1055 | 0 | 0 |
| 4 | 1002 | 0 | 0 |
| 5 | 865 | 20 | 15 |
| 6 | 1022 | 0 | 0 |
| 7 | 952 | 30 | 102 |
| 8 | 1040 | 0 | 0 |
| 9 | 992 | 0 | 0 |
| 10 | 901 | 30 | 51 |
| 11 | 859 | 20 | 9 |
| 12 | 909 | 30 | 59 |
| 13 | 882 | 30 | 32 |
| 14 | 856 | 20 | 6 |
| 15 | 948 | 30 | 98 |
| 16 | 873 | 20 | 23 |
| 17 | 944 | 30 | 94 |
| 18 | 1052 | 0 | 0 |
| 19 | 1004 | 0 | 0 |
| 20 | 949 | 30 | 99 |
|  | 平均 | 17.5 | 39.3 |

(210-80)\*(130/210)+0=80.5

间隔300米

|  |  |  |  |
| --- | --- | --- | --- |
| 组号 | 停车位置（米） | 事件时间颗粒度（秒） | 事件空间颗粒度（米） |
| 1 | 940 | 30 | 30 |
| 2 | 1115 | 30 | 205 |
| 3 | 1015 | 40 | 105 |
| 4 | 1171 | 0 | 0 |
| 5 | 1028 | 40 | 118 |
| 6 | 1100 | 30 | 190 |
| 7 | 1139 | 0 | 0 |
| 8 | 1089 | 40 | 179 |
| 9 | 1162 | 0 | 0 |
| 10 | 1107 | 30 | 197 |
| 11 | 1121 | 30 | 211 |
| 12 | 965 | 30 | 55 |
| 13 | 940 | 30 | 30 |
| 14 | 1149 | 0 | 0 |
| 15 | 1163 | 0 | 0 |
| 16 | 1043 | 40 | 133 |
| 17 | 1122 | 30 | 212 |
| 18 | 1014 | 40 | 104 |
| 19 | 935 | 30 | 25 |
| 20 | 992 | 30 | 82 |
|  | 平均 | 25 | 93.8 |

(300-80)\*(220/300)=161.3