







district size judgment, erosion and dilation, some little edge can be wiped off effectively and the exact vehicle image can be exactly extracted.

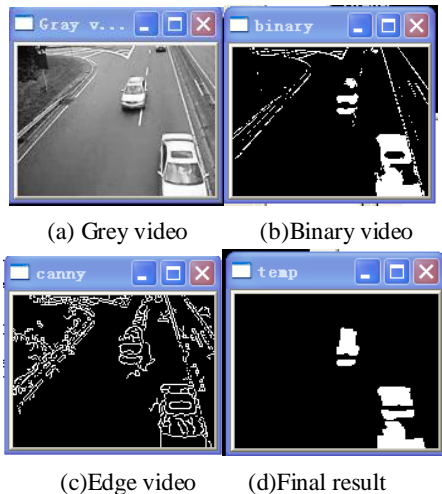


Fig. 3 Image compensation video

## 5. Conclusion

In this paper, we research on the problem of vehicle video detection and realize the Gaussian mixture model algorithm. The Gaussian mixture method extracts the background with lots of noise points. The frame difference method can extract the vehicles but has some lanes disturbing. Comparing with it, the image compensate method can extract vehicles' basic shape and erase the road lanes. This paper research on videos with 120 frames, and the success rate is about 90 percent. This paper's algorithm is mainly used in the common road but not in the situation of stronger light or sheltering. The next research is mainly focused on improving the vehicle detection of light mutation, vehicle cover and the sudden movements of the stationary object.

## References

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