

TOP 3 combinations detector - descriptor			
Detector	Descriptor		
FAST	BRIEF		This combination is the fastest, with total time (detection + description) of 2ms approx. The size of keypoints is small so matching is done with more accuracy
FAST	ORB		This is the second best combination in terms of speed. The size of keypoints is also small
FAST	BRISK		This is the third best combination in terms of speed. The size of keypoints is also small

Recommendation:

The FAST and BRIEF combination seems to be the more adapted for vehicle applications as it has the best execution time. The keypoints are accurate and matching seems correct.