



# How KITE Helped a Tier 1 to Perform Black Box Testing Including **HMI Validation with 93% Automation Coverage**



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## Automated Functional **Testing of HUD**

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### Client Challenges

- Customer's existing proprietary solution was not capable of HUD test automation
- Only Manual Testing was happening resulting in a large team, less test cycles, longer cycle time & late feedback



# Solution Highlights

**1**  
Integrated 3rd party HDMI based frame grabber with KITE to capture HMI screen

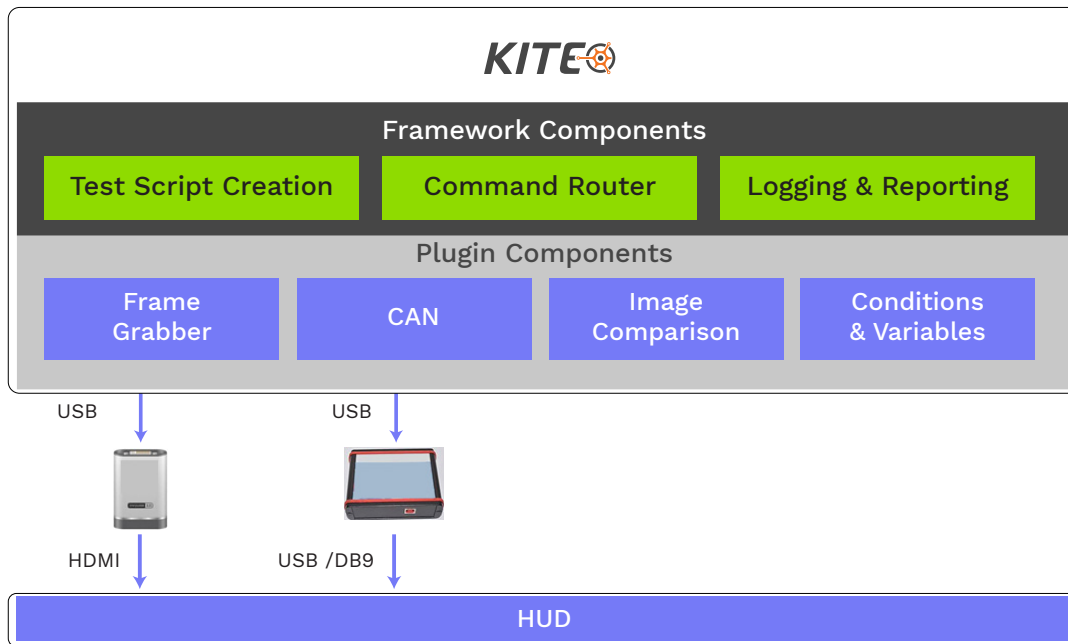
**2**  
Automated testing of complex screens like Navigation, ADAS, Adaptive Cruise Control features

**3**  
Automated CAN, M-CAN and Flow Control ISO 15765 Messages

**4**  
Reduced test cycle time from 10 weeks to 2 weeks even with lesser team size

**5**  
Quickly (in 3 weeks) 95% test cases adapted from variant 1 to variant 2 using KITE's function block reuse approach

## Solution Setup



## Story in Numbers

- 1**  
Started in Nov-17, 7 Team Size at Offshore
- 2**  
4 HUD Variants
- 3**  
Total 65600 Test Cases
- 4**  
93% Test Cases Fully Automated
- 5**  
5% Test Cases Semi-Automated