

# In-Vehicle bus analysis

## Signal monitoring & protocol analysis of CXPI, CAN, CAN-FD, LIN, FlexRay and SENT

One box debugging solution for IVN (In-Vehicle Network)



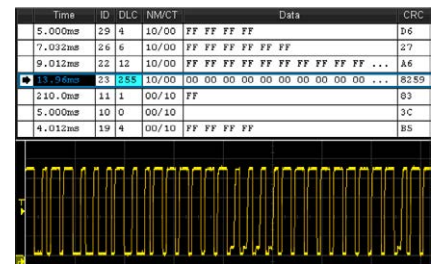
- “Want to analyze various IVN bus signals ?”
- “Want to reproduce signals captured under real car environment on a bench-top ?”
- “Want to analyze noise signals easily and accurately ?”

YES, we can support for you !

In-Vehicle bus analyzer using InfiniiVision 3000T X-series / 4000 X-series oscilloscope

### The latest CXPI is now supported **Industry-first**

Synchronized analysis of time-domain signal (phy) and protocol.  
Multiple triggers for PTYPE, Frame ID, etc. improves debugging efficiency.  
Best in Class / Industry Leader for CXPI device design, trouble shooting and signal monitoring for manufacturing.



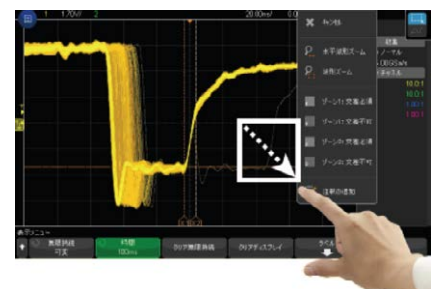
### One-box capture & playback

Capture real world signals on vehicles-under-test using the built in memory capability then play these signals back using the optional function generator on your bench-top to enhance debugging.



### Trigger any signals in 3 seconds

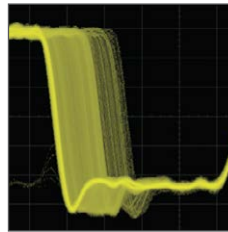
Zone touch trigger – unique to Keysight Technologies!  
Swipe touch screen to select the zone you want to trigger.  
Easy to trigger on noisy signals to improve debugging tasks.



Data
Fuel:12.08gal;Temp:1..
Right-impact:Armed;L..
Lock:Off;Angle:46.98..
Fuel:12.08gal;Temp:1..
Right-impact:Armed;L..
Lock:Off;Angle:46.98..
Fuel:12.08gal;Temp:1..

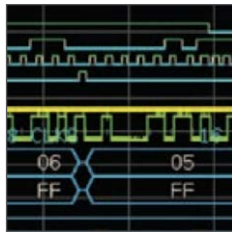
### Symbolic decode (.dbc)

In addition to HEX data decoding, actual communication messages are also displayed. It allows you more intuitive operation and debugging (CAN, LIN)



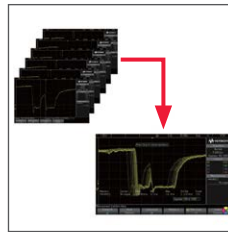
### Best-in-class 1,000,000 wfms/s update!

You might have missed noise signals. Best-in-class waveform update rate shortens dead time dramatically. You don't miss intermittent noise signals any more.



### Synchronized analysis of 2 serial buses

Hardware decoding realizes faster signal processing. You can see correlation between CAN and CXPI for example.



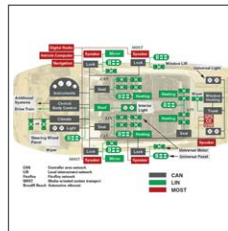
### Segmented Memory

Capture and store signal information into memory when an event happens. This allows capturing infrequent events over an extended period of time.

English	Spanish
日本語	Russian
簡体語	Hangul
繁体語	French
German	Italian
	Portuguese

### Local language support

Local language support together with intuitive operation greatly improves user efficiency.



### 100Base-T1(BroadR-Reach), LVDS, MOST

100Base-T1 considered for next generation IVN, LVDS for image/video transmission, and MOST used between multimedia devices are also available.

	InfiniiVision 2000 X	InfiniiVision 3000T X	InfiniiVision 4000 X	InfiniiVision 6000 X	Infiniium S
LIN decode	●	●	●	●	●
LIN symbolic decode		●	●	●	●
LIN trigger	●	●	●	●	●
CAN / CAN-FD decode	●	●	●	●	●
CAN / CAN-FD symbolic decode		●	●	●	●
CAN / CAN-FD trigger	●	●	●	●	●
CAN / CAN-FD eye-diagram mask	●	●	●	●	
CXPI decode		●	●		
CXPI trigger		●	●		
SENT decode		●	●	●	
SENT trigger		●	●	●	
FlexRay decode		●	●	●	●
FlexRay trigger		●	●	●	●
FlexRay eye-diagram mask		●	●	●	●
FlexRay compliance		●	●	●	
LVDS verification					●
MOST eye-diagram mask					●
MOST compliance					●
100Base-T1 compliance					●

For more information on Keysight Technologies' products, applications or services, please contact your local Keysight office. The complete list is available at:

[www.keysight.com/find/contactus](http://www.keysight.com/find/contactus)