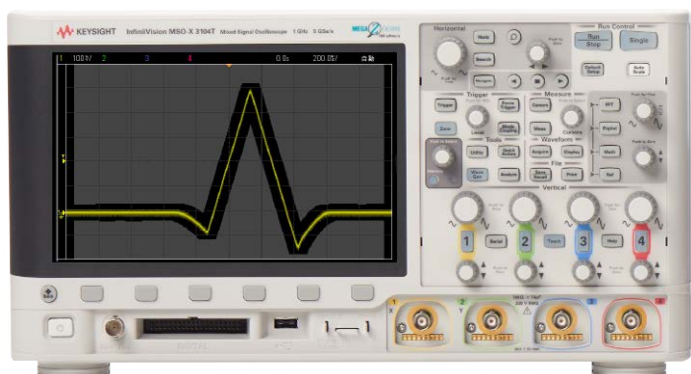# [ECU Testing]
Immunity test realized easily

Automate OK/NG of ECU output signal under electromagnetic noise environment.

Flexible masking test solution by using InfiniiVision 2000X, 3000X or 3000T X series oscilloscope and custom mask editing software.

" Want to do a pass/fail judgment of the waveform that is being visually checked automatically ? "
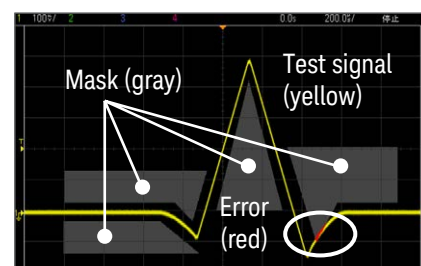
" Want more flexible triggering because an oscilloscope's general trigger function can't capture your signal ? "

" Want to check how many times an error occurs within a certain period of time ? "
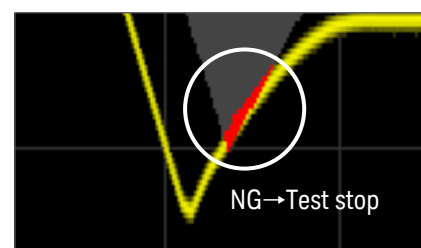
If so, we can support you.

Automate OK/NG judgment for arbitrary mask area !

Place the prohibited area called a mask on the oscilloscope screen and execute the OK/NG judgment by grasping the error waveform. Up to six masks can create / place arbitrary shapes. It automates OK/NG judgment of the waveform which is visually observed today, shortens the test time and realizes equalization of the test quality.

Easily trigger NG waveform !

It's possible to stop after a certain period of time or a fixed number of testing, or to stop the waveform immediately when waveform is applied to the mask (= NG). Under conditions that cannot be captured with the simple trigger function of the general oscilloscope, the InfiniiVision series of oscilloscopes lets you capture the error waveform and observe it.
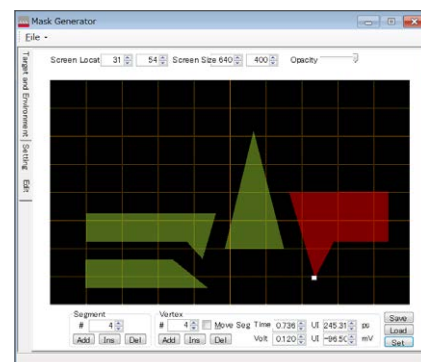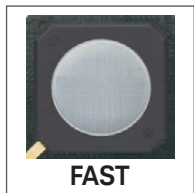

Easy to edit user's arbitrary mask area !

Two methods to create a mask are supported:
1. Create with mask editing PC software (free)
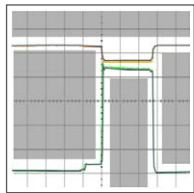2. Create from reference waveform on oscilloscope
The created mask can be saved and later recalled to the oscilloscope so it is easy to repeat the test with the same criteria.
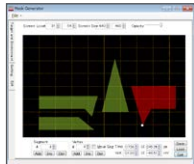

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Hardware processing mask function

Run tests at up to 270,000 cycles/sec (3000T X series). It will be difficult for you to miss Intermittent phenomena with low frequency of occurrence.
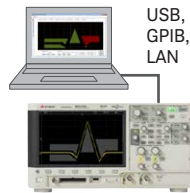
FAST

Support multi channels

The mask test can also be applied to waveforms of multiple channels. it's ok, even if there are several signals to watch at one time.
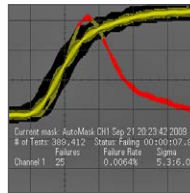
Mask editing software

The high-performance mask editing software is free of charge. Easily create and edit masks on your own PC.

Automated test is also supported

USB, GPIB, LAN

External control via USB, LAN (optional) or GPIB (optional) is available. SCPI command for mask test is prepared, and mask test can be performed even with automatic measurement.
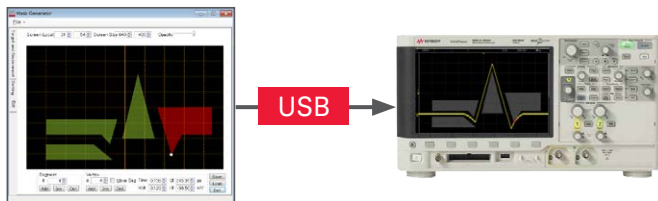
Ideal for reliability test

Fast hardware processing realizes reliability test in a short time by inspecting many waveforms. During the test, you can monitor total number of tests, cumulative test time, the number of NGs and NG ratio.
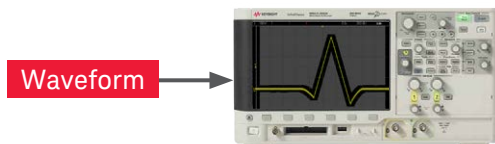
Saving waveform is also automatic !

It is possible to save the waveform image and measurement data at NG. You can also streamline subsequent reporting.

Method 1. Create with mask editing PC software (free)

USB

— Create, edit, and download a mask to the oscilloscope.
— Drag the vertex and edit the shape of the mask.
— Increase or decrease the vertices of the mask.
— Move the placement position of the mask freely by dragging it.

Method 2. Create from reference waveform on oscilloscope

Waveform

Create a mask with arbitrary margin around the reference waveform.

Recommended product models

Bandwidth	CH	2000X	3000X / 3000T X
70 MHz	2ch	DSOX2002A	—
	4ch	DSOX2004A	—
100 MHz	2ch	DSOX2012A	DSOX3012T
	4ch	DSOX2014A	DSOX3014T
200 MHz	2ch	DSOX2022A	DSOX3022T
	4ch	DSOX2024A	DSOX3024T
500 MHz	2ch	—	DSOX3052T
	4ch	—	DSOX3054T
1 GHz	2ch	—	DSOX3102T
	4ch	—	DSOX3014T
Mask option		DSOX2MASK	DSOX3MASK

Contact / Support

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

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