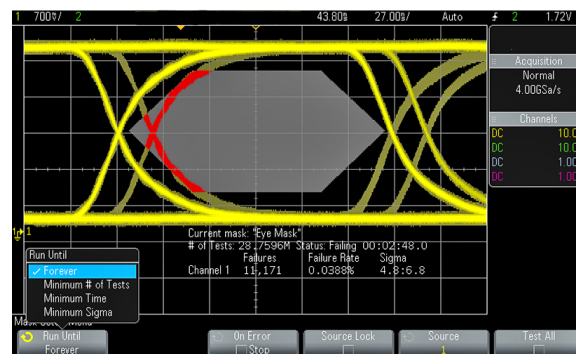# Keysight InfiniiVision 3000 X-Series (EMEA)
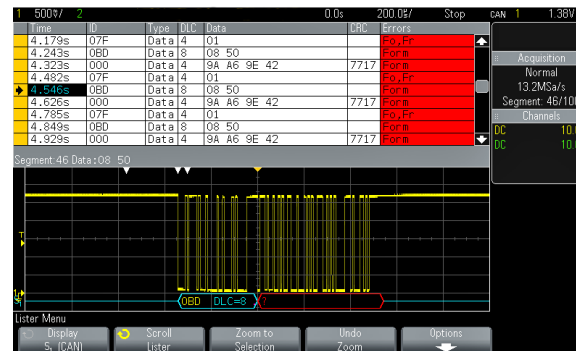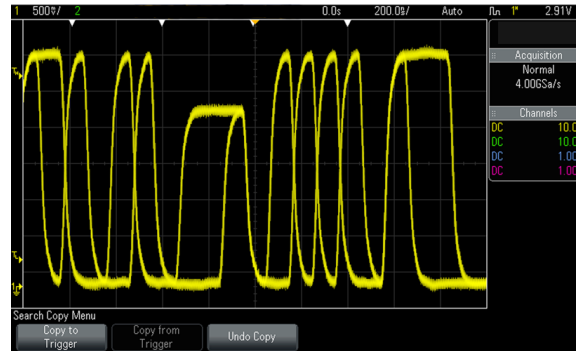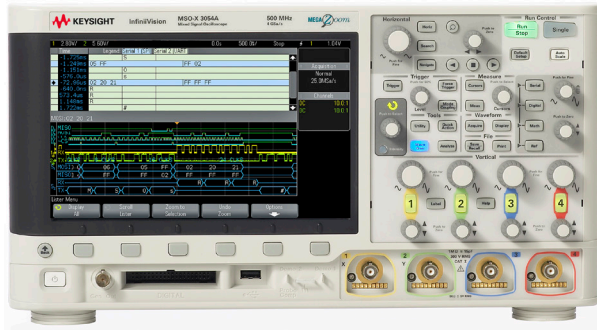
Oscilloscopes redefined: Breakthrough technology delivers more scope for the same budget



## Key specifications

| | |
|---|---|
| Bandwidth | 100 MHz, 200 MHz, 350 MHz, 500 MHz |
| Channels | 2 or 4 analog channels (DSO) +16 digital channels (MSO) |
| Sample rate | Up to 5 GSa/s |
| Memory | Up to 4 Mpts (2 Mpts standard) |
| Display | 8.5-inch WVGA (800 x 480) |
| Update rate | 1,000,000 wfms/s |
| Upgradable | Bandwidth, MSO, measurement applications, meter and WaveGen |
| Calibration interval | 2 year |
| Connectivity | USB host (one front, one back), USB device, LAN (optional), GPIB (optional) |
| Secure environment | Provides compliance with NISPOM chapter 8 requirements (standard) |







## See more

of your signal more of the time
 – High resolution 8.5-inch display
 – Up to 1,000,000 wfms/s update rate
 – Fast, responsive MegaZoom IV deep memory, up to 4 M

## Do more

with the power of 5 instruments in 1
 – Best-in-class oscilloscope
 – Integrated 16 digital channel mixed signal oscilloscope (MSO) (optional)
 – Serial protocol analyzer (optional)
 – Industry-exclusive WaveGen built-in 20 MHz Function/ Arbitrary WaveForm Generator (optional)
 – Integrated digital voltmeter (optional)

## Get more

investment protection with the industry's only fully upgradable scope
 – Upgradable bandwidth
 – Upgradable to MSO
 – Upgradable to WaveGen 20 MHz Function/Arbitrary Waveform Generator
 – Upgradeable integrated digital voltmeter
 – Upgradable measurement applications
 – 2-year recommended calibration interval

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## Oscilloscope models

| Model | Bandwidth | Maximum sample rate | Maximum memory | Analog channels | Digital channels |
|---|---|---|---|---|---|
| DSOX3012A | 100 MHz | 4 GSa/s | 4 M | 2 | – |
| MSOX3012A | 100 MHz | 4 GSa/s | 4 M | 2 | 16 |
| DSOX3014A | 100 MHz | 4 GSa/s | 4 M | 4 | – |
| MSOX3014A | 100 MHz | 4 GSa/s | 4 M | 4 | 16 |
| DSOX3024A | 200 MHz | 4 GSa/s | 4 M | 4 | – |
| MSOX3024A | 200 MHz | 4 GSa/s | 4 M | 4 | 16 |
| DSOX3032A | 350 MHz | 4 GSa/s | 4 M | 2 | – |
| MSOX3032A | 350 MHz | 4 GSa/s | 4 M | 2 | 16 |
| DSOX3034A | 350 MHz | 4 GSa/s | 4 M | 4 | – |
| MSOX3034A | 350 MHz | 4 GSa/s | 4 M | 4 | 16 |
| DSOX3052A | 500 MHz | 4 GSa/s | 4 M | 2 | – |
| MSOX3052A | 500 MHz | 4 GSa/s | 4 M | 2 | 16 |
| DSOX3054A | 500 MHz | 4 GSa/s | 4 M | 4 | – |
| MSOX3054A | 500 MHz | 4 GSa/s | 4 M | 4 | 16 |

## Probing options

For complete list of compatible probes, see Keysight document 5968–8153EN.

| Model | Description |
|---|---|
| N2862B | Passive probe 150 MHz 10:1 attenuation (1 per channel included 100 MHz models) |
| N2863B | Passive probe 300 MHz, 10:1 attenuation (1 per channel included 200 MHz models) |
| N2890A | Passive probe 500 MHz, 10:1 attenuation (1 per channel included 350/500 MHz models) |
| N6450-60001 | 16 digital channel MSO cable (1 per scope included MSO models, DSOX3MSO and DSOXPERFMSO upgrades) |
| N2889A | Passive probe 350 MHz 10:1/1:1 switchable attenuation |
| 10076B | Passive probe 250 MHz 100:1 attenuation |
| N2771B | Passive probe 50 MHz 1000:1 attenuation |
| N2790A | Differential active probe 100 MHz ± 1.4 kV with AutoProbe interface |
| N2792A | Differential active probe 200 MHz ± 20 V |
| N2793A | Differential active probe 800 MHz ±1 5 V |
| 1146A | AC/DC current probe 100 kHz 100 A |
| 1147A | AC/DC current probe 50 MHz 15 A with AutoProbe interface |
| 1157A | Single-ended 2.5 GHz with AutoProbe interface |
| N2893A | AC/DC current probe 100 MHz 15 A with AutoProbe interface |
| N2744A | T2A (Tektronix TekProbe interface to Keysight AutoProbe) probe interface adapter |

## Measurement options

| Model | Description |
|---|---|
| DSOX3MemUp | Memory upgrade - 4 M |
| DSOX3MSO | MSO upgrade, 16 channel for 500 MHz models and below |
| DSOX3WAVEGEN | Function/Arbitrary Waveform Generator upgrade |
| DSOXDVM | Integrated Digital Voltmeter |
| DSOX3MASK | Mask limit testing |
| DSOX3ADVMATH | Advanced waveform math functions |
| DSOX3VID | HDTV video triggering and measurement analysis |
| DSOX3PWR | Power measurement and analysis (Embedded in the scope) |
| DSOX3AERO | Aerospace triggering and analysis (MIL-STD 1553, ARINC 429) |
| DSOX3SGM | Segmented memory |
| DSOX3EMBD | Embedded serial triggering and analysis ($I^2C$, SPI) |
| DSOX3COMP | Computer serial triggering and analysis (RS232/422/485/UART) |
| DSOX3AUTO | Automotive serial triggering and analysis (CAN, LIN) |
| DSOX3FLEX | FlexRay triggering and analysis |
| DSOX3AUDIO | Audio serial triggering and analysis ($I^2S$) |
| 33503A | Benchlink Waveform Builder Pro and Basic |
| DSOXEDK | Educator's oscilloscope training kit |
| N8900A | InfiniView oscilloscope analysis software |
| 64997A | Keysight spectrum vsualizer (ASV) |
| DSOX3BW24 | Bandwidth upgrade from 100 MHz to 200 MHz on 4 channel models |
| DSOX3BW32 [1] | Bandwidth upgrade from 100 MHz to 350 MHz on 2 channel models |
| DSOX3BW34 [1] | Bandwidth upgrade from 200 MHz to 350 MHz on 4 channel models |
| DSOX3BW52 | Bandwidth upgrade from 350 MHz to 500 MHz on 2 channel models |
| DSOX3BW54 | Bandwidth upgrade from 350 MHz to 500 MHz on 4 channel models |
| DSOX3BW12 [1] | Bandwidth upgrade 500 MHz on 2 channel models |
| DSOX3BW14 [1] | Bandwidth upgrade 500 MHz on 4 channel models |
| Opt SEC | Secure Environment Mode (comes standard) |

1. Requires return to Keysight Service Center. All other products are licensed and customer installable.

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Keysight Services helps you improve productivity and product quality with our comprehensive service offerings of one-stop calibration, repair, asset management, technology refresh, consulting, training, and more.

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## Accessories included

| | | |
|---|---|---|
| Standard SEC mode (Secure Environment), Certificate of Calibration, Documentation CD | | |
| Standard probe | N2862A passive probe 150 MHz 10:1 attenuation | 1 per channel included 100 MHz models |
| | N2863A passive probe 300 MHz 10:1 attenuation | 1 per channel included 200 MHz models |
| | N2890A passive probe 500 MHz 10:1 attenuation | 1 per channel included 350/500 MHz models |
| | N6450-60001 16 digital channel MSO cable | 1 per scope included on all MSO models, DSOX3MSO and DSOXPERFMSO |
| Built-in help language support for English, Japanese, simplified Chinese, traditional Chinese, Korean, German, French, Spanish, Russian, Portuguese and Italian | | |
| Interface language support GUI menus: English, Japanese, simplified Chinese, traditional Chinese, Korean, German, French, Spanish, Russian, Portuguese and Italian | | |
| Localized power cord | | |

## Accessories

| Model | Description |
|---|---|
| DSOXLAN | Module - LAN and VGA |
| DSOXGPIB | Module - GPIB |
| N6456A | Rack mount kit |
| N6457A | Soft carrying case and front cover |
| N6458A | Hard copy manual |
| N2747A | Front panel cover only |

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