T.O.V.A. 9 System Requirements

Please read these system requirements carefully. Please don't hesitate to contact The TOVA Company if you have any questions.

Computer Requirements

The T.O.V.A. 9 requires a computer that has:

- An x86 or x86-64 processor running at 1 GHz or better
- 2 GB of RAM memory
- Minimum of 1 GB hard drive space
- USB port (on the PC, not via an external hub)

The T.O.V.A. 9 requires a display that:

- Is equal to or greater than 10 inches (measured diagonally)
- Supports 1024 x 768 resolution and
  - Precision Testing Environment (PTE) setup requires a graphics card and screen that supports VESA video mode of 1024 x 768 x 16-bit.
  - External Audio/Video (EAV) setup requires:
    - An external display with a standard VGA connection
    - External speakers with a standard 3.5 mm stereo plug.

Operating System Requirements

The T.O.V.A. 9 can run on the following operating systems:

Windows Requirements

- With the External Audio/Video (EAV) setup:
  - Windows 7, 8, and 10.
- With the Precision Testing Environment (PTE) setup:
  - Windows 7
  - Systems upgraded from Windows 7 to Windows 8 or 10
  - The Skylake, Kaby Lake, and probably later lines of Intel processors do not support the BIOS video extensions that we use for precise timing. As a result, the current PTE will not boot on systems that have it, including Windows 7 systems. This includes, but is perhaps not limited to, the following models:
    - HD Graphics 510
    - HD Graphics 515
    - HD Graphics 520
    - HD Graphics 530
    - Iris Graphics 540
    - Iris Graphics 550
    - Iris Pro Graphics 580
    - HD Graphics 610
    - HD Graphics 615
    - HD Graphics 620
    - UHD Graphics 620
    - HD Graphics 630
    - HD Graphics 630
    - Iris Plus Graphics 640
    - Iris Plus Graphics 650
Other notes:

- Windows "10 S" only runs Windows Store applications and will not run the T.O.V.A.
- Windows 8 and 10 systems may require Internet access to install the .NET Framework.
- Most "netbook" and many "ultraportable" laptops do not meet the screen size and resolution requirements and thus will not work with the PTE.
- We don't recommend Toshiba Satellite or Satellite Pro laptops because of their often incompatible designs.

Mac Requirements

- With the External Audio/Video (EAV) setup:
  - Any Mac running Mac OS X 10.8 or newer
- With the Precision Testing Environment (PTE) setup:
  - Mac OS X 10.8 or newer
  - 2014 model Macs and earlier

Other notes:

- 2015 generation (and later) MacBook Pro, MacBook Air and iMacs are not supported with the PTE.
- 2015 generation (and later) MacBooks are not supported because they lacks standard USB ports.
- iMac users must use a USB keyboard or mouse (not a wireless keyboard).

Linux Requirements

- Linux installations are only partially supported; please inquire for more information.

External Audio/Video ("EAV") Setup Requirements

EAV setups allow the user to administer the T.O.V.A. without rebooting.

- Requires an external VGA monitor, as on a desktop computer.
- Requires external speakers with a standard 3.5 mm stereo plug for the auditory T.O.V.A. test.
- A VGA video port on the host PC is recommended.

Precision Test Environment ("PTE") Setup

The PTE setup allows administering the T.O.V.A. test on a computer without an external monitor, such as a laptop. This requires rebooting the computer into the T.O.V.A. PTE.

- Requires a graphics card that supports 1024 x 768 x 16-bit video mode.
- Bluetooth keyboards and mice are not supported. For example, this means that the wireless keyboard shipped with the Apple iMac will not work.
- Mac systems and Windows 8 systems require a boot CD or flash drive. Additional BIOS configuration may be necessary.