



1. What kind of plastic consumables are required for use with Maverick qPCR Instruments?

The Maverick qPCR instrument requires the use of standard 0.2ml qPCR tubes. Specifically, we require fully transparent tubes with flat top. Specifications of such tubes and several sources to buy them can be found in the Maverick user's Manual, in section “qPCR tube/plasticware requirement”

2. What are the handling and maintenance requirements for Maverick qPCR instruments

Maverick qPCR instrument is a precision scientific instrument. It needs to be handled with care. Avoid exposure to high humidity, heat, ultraviolet light or direct sunshine, excessive physical stress such as vibration or impact during transportation and handling.

There is no specific maintenance requirement for Maverick qPCR other than routine cleaning to avoid cross contamination.

3. What qPCR chemistry is supported by Maverick qPCR instruments

The Maverick qPCR instrument is designed as a complete open platform with programmable operations such as different temperature cycling configuration. It can be used for any real time PCR chemistry

4. Can I run Isothermal amplification with Maverick qPCR

Yes, the temperature cycler of Maverick can be programmed to maintain a constant temperature while periodically collecting fluorescence emission from the reaction mix.

5. What accessories are needed to use with Maverick qPCR. Which of them are provided as part of the product?

As in any conventional qPCR-based test, we expect the operator to use pipette to handle fluid, some racks to stage the fluid mixes. A vortex and/or centrifuge to mix and spin down the liquid in the reaction tube. These equipments are not supplied with Maverick qPCR. They can be acquired from any molecular biology equipment suppliers.

For the Maverick qPCR instrument, a AC/DC power adapter is needed and supplied with the instrument. In addition, the windows-based software runs on a laptop computer. A USB cable is needed to connect the instrument with the laptop. This USB cable is supplied with the instrument. Certain configurations of the Maverick qPCR



## 6. How can I run RT-PCR with Maverick qPCR

The thermal cycling program of Maverick qPCR allows has the programmability to support RT-PCR. During the pre-denature section, the user can configure a step to perform reverse-transcription. This is typically a prolonged period of relative low temperature holding stage before the pre-denature and PCR denature/annealing cycles.

## 7. How do I save the experiment settings, so I do not have to enter them every time I run an experiment.

Once an experiment is run, the user can save the experiment setting to an experiment file. The experiment file contains all the settings and data. The user can also save the experiment file as a template file. A template file is an experiment file that contains all the settings but no previous data. The user can load the template for a given assay and inherent all the settings from the template.

Anitoo provide a more advanced software feature that allows saving different settings for different assays in a local or cloud based file so that the user can select an assay setting and expect all relevant parameters be configured correct.

## 8. What kind of warranty is provided with Maverick qPCRs. Can customer choose different types of warranty programs?

Maverick qPCR instruments are provided with an 1 year all labor and parts included warranty. In addition, after the initial warranty period has lapsed, the user can purchase extended warranty.

Generally, for users who put on heavy use of the instrument on daily basis to provide service or regular use in R&D, it makes financial sense to buy extended warranty to ensure continuous and guaranteed access to a functional qPCR instrument.

## 9. How long does it take to finish a qPCR cycling program.

The time required to finish a qPCR program depends on the assay chemistry. The Maverick qPCR instrument has a fast temperature ramp time (6.5 degree/sec heat and 4 degree/sec cool) and fast fluorescence acquisition time (< 1s for all 4 channels), with fast chemistry, a complete amplification and detection test has been demonstrated to be done in 25 minutes. RT-PCR has been demonstrated to run in less than 45 minutes



10. How many samples can I test with one amplification run with Maverick instruments.

Maverick qPCR comes with 4, 8, 16 well variants. This means the maximum number of samples can be 4, 8 or 16. Usually, we recommend reserving one well to run a negative control. In this case the number of samples that can be tested becomes 3, 7, and 15.

11. What type of power supply requirement there is for Maverick qPCR instruments. Is it required to use surge protection or uninterrupted power supply for the Maverick instruments?

We provide an AC/DC power adapter for all Maverick instruments. The power adapter can accept 110V/240V inputs with 50/60 Hz AC. This should work in most countries around the work. Anitoa provide power cord for most geographies of the world too. Surge protected power strip is highly recommended for Maverick Instruments. Battery backed power supply (UPS) is not required but beneficial whenever available.

12. If PC Laptop is used to control the Maverick instruments, what kind of laptop spec is required:

PC Laptops		
	Minimum Specifications	Recommended Specifications
<b>OS</b>	Windows 10	Windows 10
<b>Processor</b>	Intel Core i3 or equivalent	Intel Core i5 or better*
<b>Memory</b>	4 GB	8 GB or more
<b>Wireless Network Adapter</b>	802.11g/n	802.11n/ac/ax
<b>Hard Drive</b>	80 GB hard drive space	120 GB hard drive space or larger

- *If use AMD CPU systems, The AMD Ryzen 5 or better is recommended.*