

## **SoniClear Hardware Requirements**

This document lists the current requirements for installing and operating the SoniClear digital recording software, based on the type of application:

- Audio Recording (1-2 Channels)
  - Audio Recording (Multichannel)
  - Video Recording
  - Hybrid Video Applications
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### **Audio Recording – 1-2 Channels**

For audio recording with one or two channels, the SoniClear software will work with any Windows 10 computer.

#### **Computer**

- Laptop or desktop computer
- Windows 10 or Windows 11
- 1.5GHz or faster processor
- Intel i3 or faster processor required for multichannel audio recording
- 158 MB/Hr/Channel disk space for WAV format recordings
- 22 MB/Hr/Channel for MP3 format recordings and archives
- 1GB/Hr or more (depending on settings) for video recordings
- Customer supplied IT support and maintenance of computer

#### **Microphone**

- SoniClear Certified (recognized automatically):
  - Voice Tracker Microphone Kit from SoniClear
  - SC10 Microphone Kit from SoniClear
  - Sound System Interface Kit
  - Roland Rubix22 two-channel USB mixer interface
  - SoniClear HA1 Kit: Presonus Revolator
  - SoniClear HA2 Kit: Focusrite 4i4
- Any standard Windows-compatible audio source, including:
  - Built-in microphone
  - Windows-compatible external microphone
  - USB Audio Interface
  - PCI Audio Interface

# Audio Recording – Multichannel

## Computer

- Laptop or desktop computer
- Windows 10 or Windows 11
- Intel i5 or faster processor
- 158 MB/Hr/Channel disk space for WAV format recordings
- 22 MB/Hr/Channel for MP3 format recordings and archives
- 1GB/Hr or more (depending on settings) for video recordings
- Customer supplied IT support and maintenance of computer

## Microphone

- Multichannel recording for 4-12 individual channels and a stereo mix:
    - o SoniClear HA4 kit: Focusrite 18i8
    - o SoniClear HA6 kit: Focusrite 18i20
    - o Roland Octa-Capture USB interface
    - o RME Digiface USB interface with digital microphone preamp, such as:
      - Focusrite Octopre Dynamic
      - Behringer ADA8200
    - o Any Dante audio source with Audinate Virtual Sound Card software
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# Video Recording

## Computer

- Laptop or desktop computer
- Windows 10 or Windows 11
- Intel i5 or faster processor required for video recording
- 158 MB/Hr/Channel disk space for WAV format recordings
- 22 MB/Hr/Channel for MP3 format recordings and archives
- 1GB/Hr or more (depending on settings) for video recordings
- Customer supplied IT support and maintenance of computer

## Microphone

- 1-2 Channel Audio Recording
  - o Voice Tracker Microphone Kit from SoniClear
  - o SC10 Microphone Kit from SoniClear
  - o Sound System Interface Kit
  - o Roland Rubix22 two-channel USB mixer interface
- Multichannel audio recording for 4-12 individual channels and a stereo mix:
  - o SoniClear HA4 kit: Focusrite 18i8
  - o SoniClear HA6 kit: Focusrite 18i20
  - o Roland Octa-Capture USB interface
  - o RME Digiface USB interface with digital microphone preamp, such as:
    - Focusrite Octopre Dynamic
    - Behringer ADA8200
  - o Any Dante audio source with Audinate Virtual Sound Card software

## **IP Camera**

- Certified Axis IP video cameras (contact SoniClear for currently recommended list)

## **HDMI Encoder or Video Switcher**

- Kiloview E1/E2 SDI/HDMI Encoders
  - J-Tech ENCH4 HDMI Encoder
  - Epiphan Pearl Mini or Pearl 2
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## **Hybrid Video Recording**

### **Computer**

- One or two Laptop or desktop computers
- Windows 10 or Windows 11
- When using two computers, Intel i5 or faster processor required for video recording. When using one computer, workstation-grade system is required
- 158 MB/Hr/Channel disk space for WAV format recordings
- 22 MB/Hr/Channel for MP3 format recordings and archives
- 1GB/Hr or more (depending on settings) for video recordings
- Customer supplied IT support and maintenance of computer

### **Microphone**

- 1-2 Channel Audio Recording
  - o Voice Tracker Microphone Kit from SoniClear
  - o SC10 Microphone Kit from SoniClear
  - o Sound System Interface Kit
  - o Roland Rubix22 two-channel USB mixer interface
- Multichannel audio recording for 4-12 individual channels and a stereo mix:
  - o SoniClear HA4 kit: Focusrite 18i8
  - o SoniClear HA6 kit: Focusrite 18i20
  - o Roland Octa-Capture USB interface
  - o RME Digiface USB interface with digital microphone preamp, such as:
    - Focusrite Octopre Dynamic
    - Behringer ADA8200
  - o Any Dante audio source with Audinate Virtual Sound Card software

## **IP Camera**

- Certified Axis IP video cameras (contact SoniClear for currently recommended list)

## **HDMI Encoder or Video Switcher**

- J-Tech ENCH4 HDMI Encoder
- Kiloview E1 or E2 Encoder
- Epiphan Pearl Mini or Pearl 2

## **HDMI USB Capture Device for Video Teleconferencing**

- Epiphan AV.io 4K

## **Accessories**

### **Foot Pedal**

- Suported USB Foot Pedal:
  - SoniClear USB Foot Pedal
  - Infinity USB Foot Pedal

### **LED Clock**

- Applied Technical Systems CC186 Digital Clock
- Startech ICUSB2321F USB to Serial Adapter

## Additional Notes

- Customer must provide IT support and maintenance of the computer system. SoniClear does not provide IT support for customer supplied computers.
- For simple mono or stereo recordings, the general requirements for SoniClear are not stringent. Any Windows 10 or Windows 11 computer will run SoniClear without a problem. A computer with an i3 processor is a good general-purpose choice for a balance of power and cost, rather than the least powerful or most powerful models. For multichannel audio recording and/or video recording, an i5 processor is a good choice. This gives a margin of additional processing power to avoid possible momentary loss of data on rare occasions.
- More expensive “business grade” computer models are recommended. Although price is not a clear indicator, in general higher priced models with otherwise similar features will be a better choice. These models usually have better components and design, resulting in greater reliability and longevity.
- Computer models that have been available for at least six months tend to be more reliable than newly released models. This gives the manufacturer time to fix problems that were not found in development. Older models can also be purchased at a discount when newer models are released, saving money.
- Windows 10 is recommended when it is available. SoniClear is fully compatible with Windows 11, but the new operating system is potentially less reliable than Windows 10 at that time, as it goes through the process of refinement after the initial release.
- Make sure full manufacturer warrantee is provided from time of purchase. Most computers cannot be fixed at a reasonable cost when they fail. An extended warrantee, such as a 3-year full replacement plan, will ensure that if a computer fails it will be fixed or replaced at no cost.
- Select a system that is comfortable. For example, choose a screen size and panel type that is easy to read. The keyboard should also be comfortable to type on and low in keyboard noise.

- The keyboard should have the ability to lock the top row of keys into function key mode. Some laptops have a keyboard that requires pressing a shift key to act as a function key. Because function keys are a convenient way to add notes in SoniClear, it is important to make sure that the function keys can be pressed without having to also press a shift key each time.
- Select a computer with a low level of noise from the cooling fan, or that is fanless. This helps avoid noise from being picked up in the recording and prevents any annoyance from the computer fan in the room. In the past it was a common problem for computers to have a loud fan. Fan noise is less common now but can still be a problem with some more powerful computer models. Generally, the more powerful the computer, the higher the likelihood a noisy fan is required to keep the system cool.
- If antivirus software is installed in place of the built-in Windows Defender, Eset NOD32 or Eset Endpoint Protection antivirus software are recommended. These have been used with SoniClear for decades. Other antivirus products (including the built-in Windows Defender antivirus) can be used successfully with SoniClear, however, some antivirus products may require special settings to prevent interference from things like background updates, automatic system scans while recording, and unnecessary real-time scans of recording media files.