



Hardware and software requirements

Version 7

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HYBRID
SOFTWARE

What is Capture 3D

With Capture3D, distortions can be measured by printing a Capture3D pattern created in PACKZ on the flat substrate. After the printed substrate is shaped into its final form, the pattern contains all the information about the distortion the substrate underwent. Capture3D computes a digital copy of this physical sample by taking photos from several points of view. These measurements represent the properties of this industrial process. Based on the digital copy, a Warping grid can be created in PACKZ and artwork can be pre-distorted, also called warped, to compensate the deformation the printing.

Capture3D is a combination of

- Hardware to capture the physical sample.
- Software that turns the captured photos into a warping grid

Capture3D is cross platform compatible with Apple Macintosh and Microsoft Windows. It takes advantage of the 64-bit multicore and multithreading capabilities of both platforms.

Hardware Requirements

The hardware used to capture the physical sample is not provided by HYBRID Software. The hardware can be bought from stores selling consumer electronics. The following hardware requirements should be respected. Please contact your local support in case there are doubts.

Attention: Older versions of Capture3D may use different cameras and turntables. Currently, they are still supported in Capture3D 10. However, they will be discontinued as of version 10.5. We strongly recommend switching to new cameras and turntable.

Cameras

- 2 x Canon EOS 2000D body without lenses (also called: 1500D (South East Asia), Rebel T7 (USA), Kiss X90 (Japan))



- 2 x Canon EF 50mm f/1.8 STM



- 2 x USB 2.0 A Male Mini 5 Pins Male. Make sure the cables are just long enough to cover the distance between the turntable and the workstation's USB ports. The length of a USB cable can influence the power delivered from one end to the other. A longer USB cable may cause a voltage drop, reducing its efficiency. If you're considering purchasing a longer USB cable, choose a USB-IF certified one from a reputable brand to avoid data exchange issues.



- 1 x Camera tripod



- 1 x dual camera mount (30 cm)



Turntable from *Orangemonkie Inc* (<https://orangemonkie.com/>)

- Foldio360 turntable



- Foldio 2 Plus or Foldio 3



System Requirements Capture3D

Capture3D takes advantage of the multi-core processors of both Mac and Windows and its multi-threading capabilities. The application's 64-bit processing is supported on the Mac/Window version that is available at the moment of the release of Capture3D versions. Capture3D specifies minimum requirements for reasonable performance. The usability is proportionally linked to the performance of the hardware.

MacOS

HYBRID Software observed ongoing instability with the Canon SDK for MacOS, which may affect a reliable connection between Capture3D and the cameras. Users may experience unpredictable behaviour of Capture3D depending on their hardware configuration.

We recommend using Windows.

Here is a list of MacOS versions for which Capture3D running on MacOS can successfully connect with the Canon reflex cameras.

MacOS Intel and M	Capture3D version
Sonoma 14.6	10 – 10.5
Sonoma 14.7.5	10 – 10.5
Sequoia 15.4	10.5
Sequoia 15.4.3	10.5
Sequoia 15.5	10.5

The hardware requirements are:

- CPU: Quad-core Intel Core i7 or higher / M1 Processor or higher
- Memory: 16 GB RAM or more

Windows

Windows	Capture3D version
Windows 10 (64-bit) - Professional - Enterprise - Education - Home	9.5 – 10 – 10.5
Windows 11 (64-bit)	9.5 – 10 – 10.5

The hardware requirements are:

- CPU: Quad-core Intel Core i7 CPU or higher
- Memory: 16 GB RAM or more

Note:

- Windows Server is not supported as an operating system on which Capture3D runs.
- Ensure the Windows system has all operating systems updates installed.
- Virtualization is not supported.
- Preferably, the computer has built-in Bluetooth to pair and connect to the turntable. Alternatively, a Bluetooth dongle may be used.