



User Manual

Pentax KP/K1/K1 Mark II/645Z/K3 Mark III ASCOM Driver

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Revision Sheet

Release No.	Date	Revision Description
Rev. 1.0	7/20/2025	Initial Release

USER'S MANUAL

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A. GETTING STARTED WITH SHARPCAP

1.1 Driver Installation

Download and install ASCOM. You should get this version if possible: ASCOMPlatform702.4675.exe

From:

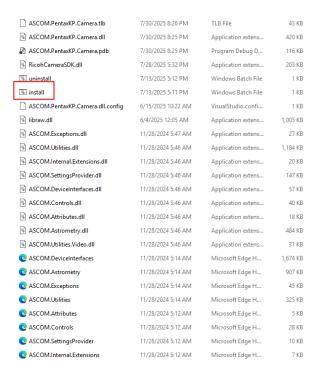
https://github.com/ASCOMInitiative/ASCOMPlatform/releases/download/v7.0.2/AscomPlatform702.467 5.exe

Next, download and unzip the Pentax KP ASCOM Driver:

Releases · richromano/ASCOMPentaxCameraDriver



Place the latest release to a long term location. This is the location the software will run from. Run install.bat by double clicking on it.



The installer will ask for Administrator privileges and then you will see the following installation log:

```
Microsoft .NET Framework Assembly Registration Utility version 4.8.9032.0 for Microsoft .NET Framework version 4.8.9032.0 (Copyright (C) Microsoft Corporation. All rights reserved.

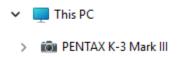
RegAsm : warning RA0000 : Registering an unsigned assembly with /codebase can cause your assembly to interfere with other applications that may be installed on the same computer. The /codebase switch is intended to be used only with signed assemblies. Please give your assembly a strong name and re-register it.

Types registered successfully Press any key to continue . . .
```

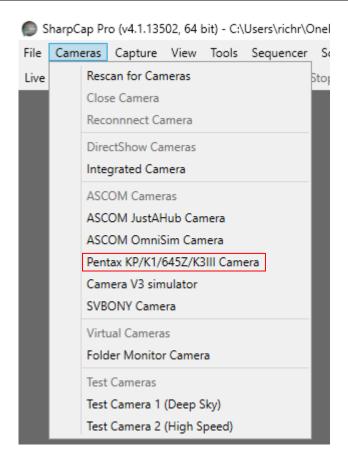
1.2 SharpCap Installation and First Steps

Download and install Sharpcap 64bit: https://d.sharpcap.co.uk/download.html?version=4.1.13484.0&arch=x64

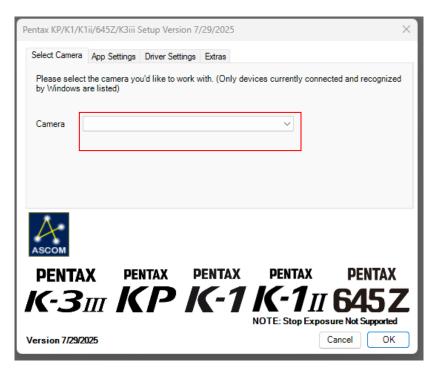
Turn on your camera and make sure the USB mode is set to MTP/PTP mode. Set the Camera to M mode. You can set the shutter to Electronic Shutter if desired. Connect your camera to the computer and make sure it is recognized as a camera.

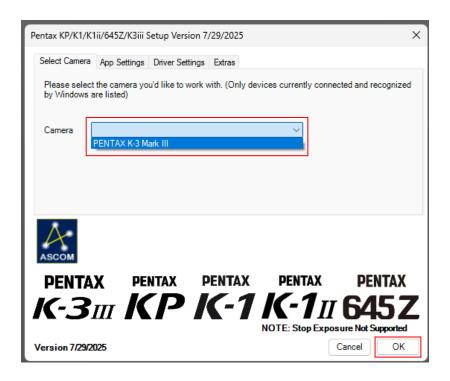


Open Sharpcap. Select the Camera menu and you should see Pentax KP/K1/645Z.



Select Pentax KP/K1/645Z and a dialog box should show up. Inside the dialog you should see a drop down where you can select your Camera.





You can review each of the other settings pages as shown here. However, you should just accept the default settings given when you first install (the defaults are shown again here in case you want to reset them). Then press OK.

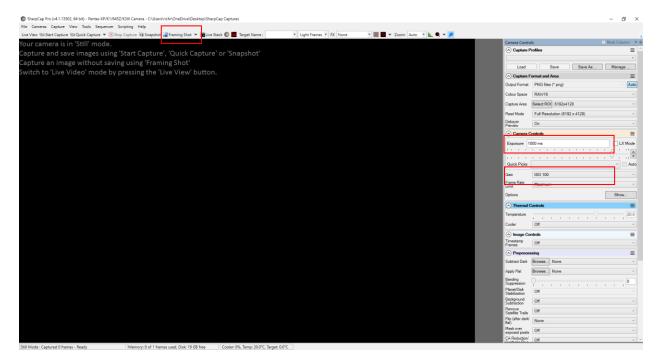




Note that Bulb mode no longer requires a cable and these options are greyed out.



After pressing Okay, you should see the following Window.

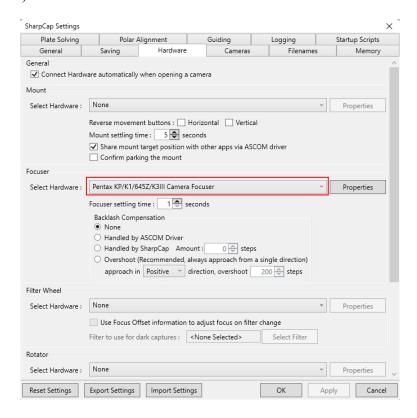


Take a picture by pressing the Framing Shot button. This should show an image. You can adjust the gain and the ISO using the other two buttons. You can then take more framing shots.

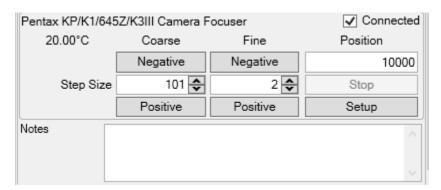
1.3 SharpCap Focuser Installation

There is a Pentax Focuser that is included in the driver installation. In SharpCap select the File-> SharpCap Settings. You will see the following:

First select the Hardware pane and the in the drop down menu in the Focuser pick the Pentax Focuser. There are no Properties to set and you can leave the other values at their defaults. Sharpcap will automatically connect the focuser when the Camera is opened. (You must close and reopen the camera to connect the first time).

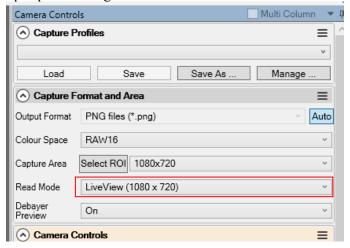


With the Focuser connected you will see an extra window in the lower right corner of Sharpcap. You can control the Focuser manual from there. There are also several ways to automatically focus the camera. For the Focuser to work you need to have the camera in AF mode with an autofocus lens.



1.4 Live View With SharpCap

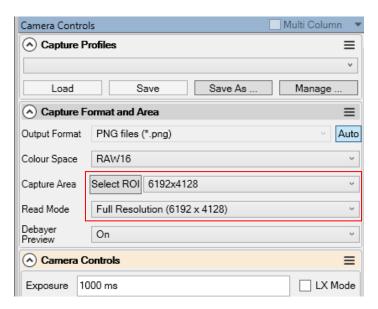
To use Live View in SharpCap first change the ReadMode to Live View



Then press the Live View button on the upper left. This will start live streaming of the camera that can be used for framing and rough focus.



To turn off Live View first turn off the Live View button in the upper left and then set the Read Mode back to Full Resolution and set the Capture Area to full resolution.



1.5 Bulb Mode With SharpCap

Bulb mode does not require any additional cables. Just set the camera to Bulb mode before connecting. To change back to Manual mode first disconnect and then change the more.

Once you have Bulb mode set be sure to press the Green button to switch from Time to Bulb mode. The camera should look as follows.



If you are using a K3-Mark III also make sure to set the Bulb mode to Bulb in the menu.

