



Atik GP User Manual

Version 1.1 – July 2015



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1. Introduction

Congratulations on your purchase of an Atik GP camera. This manual will help you get the most out of your Atik camera so please take the time to read it thoroughly and you'll soon be ready to discover new worlds.

Atik Cameras provide exceptional value for money, superior performance and unparalleled ease of use. They are the result of extensive research and development, each one having been designed and built with the requirements of the most demanding astroimager in mind. Your Atik camera incorporates state-of-the-art design and materials, and will be your trusted astrophotography companion for a long time to come.

1.1 Further information

For installation instructions and other useful information please refer to the Quickstart guide which was shipped with the camera. Information on the software is given in the ArtemisCapture guide, a PDF file of which is copied to your computer hard drive by the software installer. Further information, including a number of 'Getting Started' tutorial videos, is available on our website at <http://www.atik-cameras.com>.

For the planetary mode operation, please refer to the help section within the GP Acquire software.

2. Pack Contents

This pack includes:



1. Atik GP camera
2. CD with software and manuals
3. Quickstart guide
4. 1.8m MiniUSB cable

3. Getting to know your camera

3.1 Camera Parts



- 1 – High-Speed MiniUSB 2.0 port
- 2 – Atik GP camera body
- 3 – Removable 1.25" adapter

3.2 Mounting options

The Atik GP has M42x0.75 (T-thread) in the front. It permits the usage of any T-thread compatible accessory.



3.3 Sensor

The sensors available in the Atik GP camera are listed below:

<i>Atik GP Mono</i>	SONY ICX445AL
<i>Atik GP Color</i>	SONY ICX445AQ

This CCD has Sony's *EXview CCD HAD II™* technology embedded, making them exceptionally suitable for low light work. Guiding on fainter stars or getting better quality images on planets are practical benefits that the Atik GP provides.

3.4 Analog to Digital Converter (ADC)

The Analog to Digital Converter (ADC) has a 12-bit dynamic range. This means that your Atik camera will allow you to record subtle levels of gray, providing you with detail in both the faint and bright parts of an image.

3.5 Power Consumption

Since the Atik GP is USB powered, it is important to keep the camera on its own USB port. If a hub is needed, make sure you use an active one, with its own power source.

3.6 Cooling

The Atik GP features passive cooling, meaning that heat from the electronics/CCD is transferred to the aluminum case by dissipation. This helps keeping the noise down, improving signal to noise ratio for guide stars and planets.



4. Technical Information Summary

	GP
Image sensor	Sony ICX445
Resolution	1296x964
Pixel size (um)	3,75x3,75
ADC	12bit
Readout noise (Typ.)	7e
Cooling Delta	Passive
Regulated cooler	No
Water assist	No
Maximum exposure	5s
Minimum exposure	0,001s
Maximum Frame Rate	30 fps
PC Interface	USB2
Power requirements	USB powered
Backfocus distance	7mm ±0.5
Thread on front	M42x0,75
Weight	80g
Mono or OSC	Either

The following table gives the angular resolution per pixel with certain focal distances. The formula to calculate any other focal length is:

$$(Pixel\ Size\ (\mu m) / Focal\ Distance\ (mm)) * 206.3 = angular\ resolution\ (arcseconds/pixel)$$

Focal length	Sampling
300	2,58
400	1,93
500	1,55
600	1,29
700	1,11
800	0,97
900	0,86
1000	0,77
1500	0,52
2000	0,39
2500	0,31
3000	0,26
3500	0,22
4000	0,19
5000	0,15
6000	0,13
7000	0,11
8000	0,10

5. Declaration of Conformity



EU Declaration of Conformity

This product carries the CE Mark in accordance with the related European Directive. CE Marking is the responsibility of:

Perseu, SA
R. Dr. Agostinho Neto, 1D
2690-576 Sta Iria da Azoia
Portugal

Critical Applications

This product is not designed for any “critical applications”. “Critical applications” means life support systems, medical applications, connections to medical devices, commercial transportations, nuclear facilities or systems or any other applications where product failure could lead to injury to persons or loss of life or catastrophic property damage.

This product is not a toy.

This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

5.1 Disposal of the camera

When no longer required do not dispose of this electronic device with general household waste. To minimise pollution and protect the environment the camera should be recycled. Local recycling drop off points available under the Waste from Electrical and Electronic Equipment (WEEE) regulations which will accept the camera. For further information contact Perseu SA at the above address, or the shop from which the camera was bought.





6. Servicing and Repairs

Repairs, servicing and upgrades are available through your local dealer or at Support@Atik-Cameras.com

Please note that modifications to the camera and/or accessories which are undertaken without the manufacturer's written permission will void the warranty.

7. Warranty

The equipment is guaranteed against defective design, manufacture or materials for a period of one year from the date of purchase.

This means that Atik Cameras will repair or replace the equipment at its sole option, at no charge to the purchaser for parts or for labour, if the fault is reported within the guarantee period, provided however that Atik Cameras is able to duplicate the defect or problem at its facilities. This warranty does not apply to damage that occurred as a result of abuse or misuse, abnormal service or handling, damage which may have been caused either directly or indirectly by another product, or if the equipment has been altered or modified in any way, or if the damage was caused by repairs or service provided or attempted by anyone other than Atik Cameras. This warranty does not include or provide for incidental or consequential damages.

To exercise your rights under this warranty, you must return the equipment to the dealer from whom it was purchased together with proof of purchase and a clear description of the fault. If it's not possible to return the equipment to your dealer, you should contact Atik Cameras. Equipment returned to Atik Cameras must be sent in appropriate packaging and at your expense (insurance is recommended), together with proof of purchase, a return address and a clear description of the fault.

This does not affect your statutory rights.