

Atik Cameras

Cooled CCD and CMOS (2015-2017)



What's new for Atik in Astronomy

1. The Atik Infinity
2. The Atik 16200
3. Project CMOS
4. ISO9001

The Infinity

- Uncooled CCD Camera
- 1.4MP ICX825 sensor
- 6.4um pixels
- Fast readout (0.3 sec)
- 16 Bit digitisation
- Dedicated software for EEA
- 1086 EUR



Infinity



Exposure Settings

Exposure Secs < 1.5 >

Binning < 4 >

Image Settings

Auto Range ☐

Colour Bal Type AutoAdj ▼

Saturation < 0 >

Brightness < 0 >

Image Quality

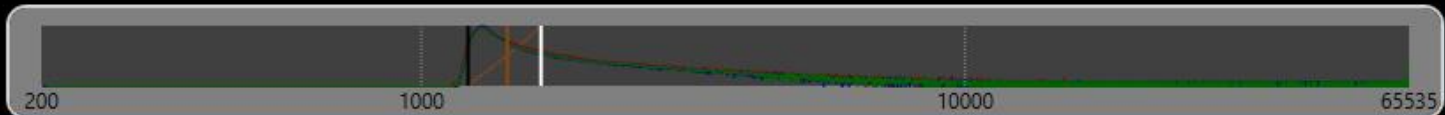
Full Screen Off ▼

FWHM 3.2



Reset

Advanced Settings





Atik Infinity: A Night of DSOs

Dave Hudson
11 months ago • 7,480 views
Back in February 2016, I got the rare occasion of clear skies and 6 hours at night of time off! I took full advantage of it and put the ...



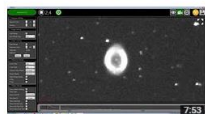
Unboxing of the Atik Infinity

Dave Hudson
1 year ago • 4,942 views
A short video showing the unboxing and plugging in of the Atik Infinity CCD which is a Live Video Astronomy CCD. I have been ...



Unboxing the Atik Infinity astrophotography camera

Amy Padgett
3 weeks ago • 200 views
What is in the box when you get the Atik Infinity astrophotography camera.



Atik Infinity - Live Broadcast Highlights

Atik Cameras
1 year ago • 5,460 views
Highlights from the first ever live broadcast with the Atik Infinity camera. M27 - 0:46 M57 - 2:28 M31 - 3:44 M33 - 4:22 Stephan's ...



Atik Infinity first night out - M42 Orion Nebula

Dave Hudson
1 year ago • 8,391 views
This was my first night out with the Atik Infinity Live Video Astronomy CCD! The clouds finally cleared though the moon also rose ...



Jupiter, IO, Ganymede Live View with Atik Infinity

Dave Hudson
11 months ago • 3,332 views
A live view video of Jupiter with a transit of IO and Ganymede coming out from behind the planet. Shot in very poor seeing ...



Greg Wycoff Live Stream

Greg Wycoff
Streamed 2 months ago • 94 views
astrophotography using the Atik Infinity camera and the CPC 1100 telescope.



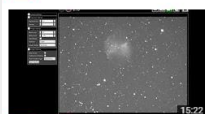
Atik Infinity Software Features

Atik Cameras
1 year ago • 8,418 views
Steve Chambers and Rui Tripa demonstrate some of the new features in the Atik Infinity software.



Atik infinity Alt Az

Bob Stelmack
1 year ago • 1,871 views
Atik Infinity-AT60EDT-F4.8 all done on a Evolution aut aligned StarSense mount. 14 to 60 sec frames stacked-No Sound.



Test Session with the Atik Infinity

Atik Cameras
1 year ago • 13,379 views
Steve Chambers and Rui Tripa from Atik Cameras trial the new Atik Infinity camera in Lisbon. M13 - 0:16 M27 - 1:55 M51 - 6:31 ...



Atik Infinity with Vixen ED80sf 80mm Refractor

Dave Hudson
1 year ago • 7,446 views
This was a test of the Vixen ED80SF on Orion (M42), M33, and the Flame Nebula to see how well it did. I will post a separate ...



Atik Infinity with RASA 11 F2.2

Mark Bahu
Streamed 11 months ago • 1,468 views



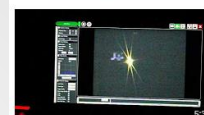
Atik Infinity NGC 253

Alex G-Cort
5 months ago • 238 views
Sculptor Galaxy.



ATIK INFINITY M42 ORION NEBULA not guiding, mount skywatcher AZ

Pastores Florin
1 year ago • 865 views
ATIK INFINITY M42 ORION NEBULA Telefoto TAMRON 600 m f5 - 6.5 not guiding, skywatcher AZ.



Atik Infinity First Light

Dave Hudson
1 year ago • 3,438 views
First light on my new Atik Infinity Live Video Astronomy CCD! After unboxing, hooked the Atik Infinity CCD to my Celestron C11 at ...



ATIK INFINITY Camera CCD adapter for lens Nikon / Canon / ecc. ecc.

Adriano Lolli
6 months ago • 352 views
info: <http://www.adrianolli.com/articolo.asp?ID=5841>
<http://www.adrianolli.com/articolo.asp?ID=5842>



Atik Infinity first night out - Horse Head Nebula

Dave Hudson
1 year ago • 4,837 views
This was my first night out with the Atik Infinity Live Video Astronomy CCD! The clouds finally cleared though the moon also rose ...



Atik Infinity - 80mm Refractor vs 11" (280mm) SCT

Dave Hudson
1 year ago • 9,571 views
I was asked to show how the camera would perform on a "smaller" scope at a slower focal ratio and here it is! This is a quick ...

Infinity on

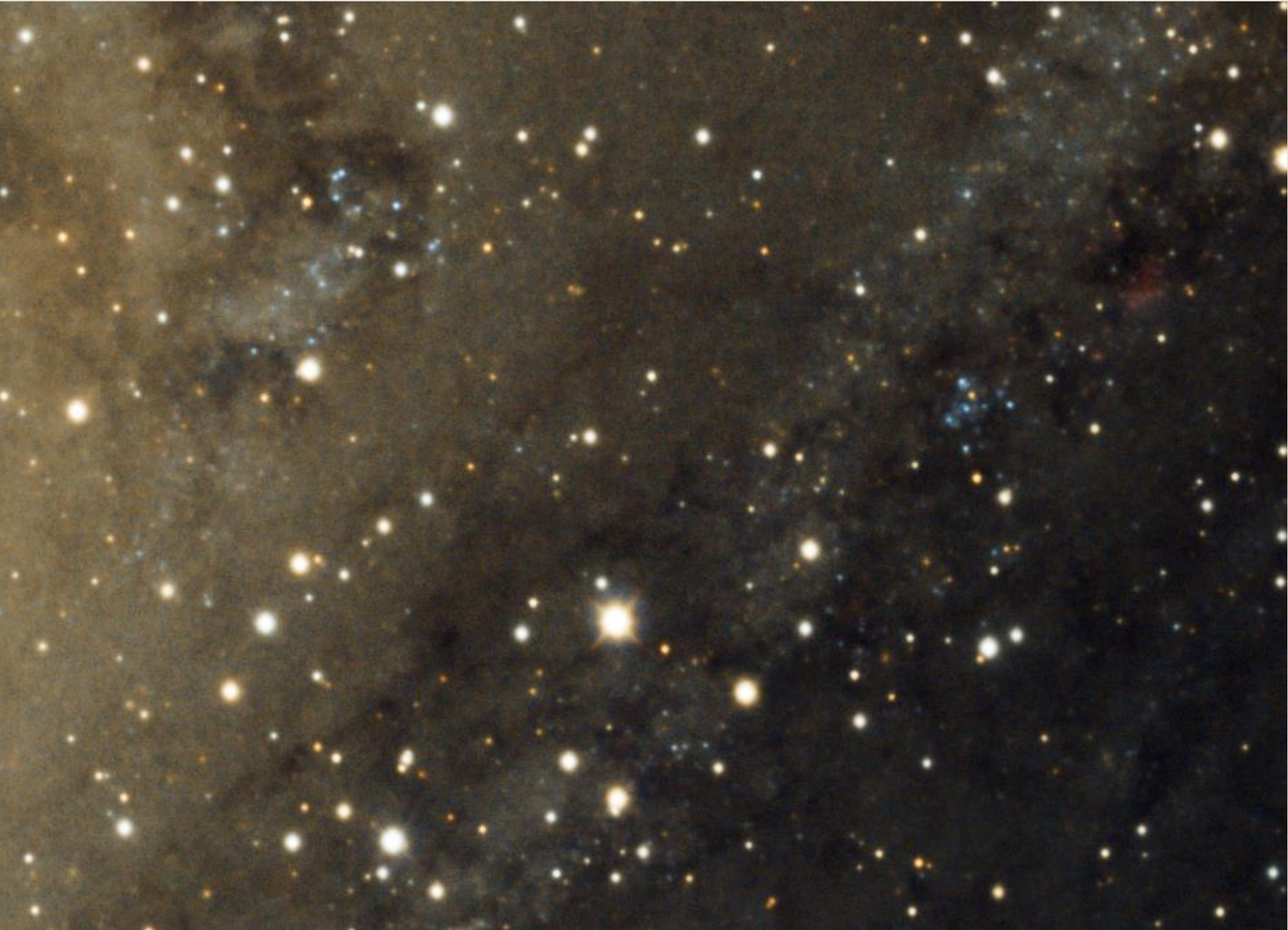
YouTube^{GB}

Atik 16200

- Sensor Type: CCD - KAF-16200
- Horizontal Resolution: 4499 pixels
- Vertical Resolution: 3599 pixels
- Pixel Size: 6 μm x 6 μm
- ADC: 16 bit
- Readout Noise: 9e- typical value
- Full Well: ~40,000e-
- Interface: USB 2.0 High Speed
- Power: 12v DC 2.5A
- Cooling: Thermoelectric set point with max $\Delta T \Rightarrow -50^\circ\text{C}$
- Weight: approx. 1.3 kg
- Backfocus: 19.5mm ± 0.5







CMOS 16MP APS

- Panasonic MN34230PLJ sensor
- 4/3" CMOS
- 3.8um Pixels
- Mono or Colour
- ~1e read noise
- On board 8 frame memory
- USB2 or USB3
- Exposures 30us – infinity
- Summer 17



CCD vs CMOS

	CCD	CMOS
Cost / mm ²		+
Read Noise		+ (Dyn Range)
Pixel Size	+	
Binning	+	
Image Quality	+	

CCD is still the ideal technology for Astronomy. If the compromises are not too onerous then CMOS becomes very attractive.

Quality

ISO 9001

Covers Suppliers, Parts,
Manufacture, Testing

DNV·GL

MANAGEMENT SYSTEM CERTIFICATE

Número do Certificado/Certificate No.:
212352-2017-AQ-18E-ENAC

Data de Início/Initial date:
16 Janeiro 2017

Válido até/Valid:
16 Janeiro 2017 - 15 Setembro 2018

Certifica-se que o sistema de gestão de/This is to certify that the management system of

PERSEU, SOCIEDADE DE COMERCIO PARA EQUIPAMENTO INFORMATICA E ASTRONOMIA UNIPessoal, L.D.A.

Rua Zeca Afonso 11, 2690-395, Santa Iria de Azóia, Lisboa, Portugal

está em conformidade com a Norma de Sistema de Gestão da Qualidade/
has been found to conform to the Quality Management System standard:

ISO 9001:2008

Este certificado é válido
para o seguinte âmbito:

**Montagem e teste de câmaras fotográficas
científicas, usadas em ambiente
laboratorial (OEM) e em Astro-fotografia.**

This certificate is valid
for the following scope:

**Assembling and Testing of Photographic
Scientific Cameras, for Laboratory use (OEM)
and Astrophotography**

Local e data/Place and date:
Barcelona, 16 Janeiro 2017

Escritório emissor/
For the Certification Body



Ana del Río Salgado
Representante da Gestão/Management
Representative

O incumprimento das condições expressas no Contrato de Certificação pode invalidar este certificado/
Lack of full line of conditions as set out in the Certification Agreement may render this Certificate invalid.
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www.dnvgl.es/assurance

Atik

~~Affordable cooled,~~
slow scan CCD
Cameras.

*and InGaAs
and CMOS*