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High Sensitivity The
QHY5-II Series
uncooled cameras fit in

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a standard 1.25-inch eyepiece holder and have an adjustable location ring for confocality with an eyepiece. They are ideal for use as low-weight autoguider or planetary cameras where short exposures are typical. The QHY5-II series cameras come in very small but powerful packages!

**QHY5II Series -
planetary camera**

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and guide camera -

QHYCCD ...

QHY5-II series cameras have an improved USB transfer speed over their original QHY5 models. The QHY5-II is capable of 30 FPS (frames per second) at full resolution

(1280x1024), 106 FPS at 640x480, or 320 FPS at 320x240 resolution.

Aptina MT9M001

Sensor Specifications.

Optical Format: 1/2

inch (5:4) Active

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Imager Size: 6.66 mm
x 5.32 mm

**QHY QHY5-II
Monochrome CMOS
Planetary Camera &
Autoguider ...**

Compact, High-Sensitivity Autoguiders QHY5-II series USB2.0 cameras come in very small but powerful packages. These cameras fit in a standard 1.25-inch eyepiece holder, but their improved thermal

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Autoguider
Autoguider
design allows the heat generated by the CMOS sensor to be transferred externally to the telescope's eyepiece tube.

**QHY 5-II
Monochrome
Astronomy Camera
& Autoguider with
USB ...**

QHY QHY5L-II Color CMOS Camera & Autoguider As with all QHY5-II cameras, the QHY5L-II sports high

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sensitivity and low noise. Many have found the image quality of the QHY5L-II to equal or even surpass that of cameras with a ICX618 sensor. Readout noise is incredibly low - as few as four electrons.

QHY QHY5L-II Color CMOS Planetary Camera & Autoguider ...

You can show the realtime astronomy

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scene to your friends with this camera. The QHY5L-II's high sensitivity and low noise is another highlight in QHY5-II. With unbelievable 74% QE QHY5L-II's sensitivity is even exceed many CCD camera's. It is said the QHY5L-II's image quality get or beyond the ICX618 based cameras.

QHYCCD QHY5-II
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**Auto-Guider Mono
Progressive Scan
Camera, 1 ...**

QHYCCD designs and manufactures world-leading astronomical cameras, ranging from entry-level to professional, CMOS and CCD, front-illuminated and back-illuminated, specially crafted for amateur and professional astronomers worldwide.

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**Astronomical
Cameras**

Like the ZWO 'Mini' cameras, this camera can be used as an autoguider or lunar/planetary camera and it comes in a small package about the size of an 1.25" eyepiece. It also includes an ST4 port and USB2.0 interface. In 2016, QHYCCD released an upgraded QHY5-III series of cameras with

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Autoguider
USB3.0 interface.

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**Selecting a Guide
Scope and
Autoguiding Camera
for ...**

Best autoguider and
guide scope packages

Astromania Camera

Easy Autoguiding

Set50 \$284.

Astromania has always
been a great source for
inexpensive astronomy
gear and their

Astromania Camera

Easy Autoguiding

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Set50 shows why.
Included is everything
you need to get started
guiding including the
camera, rings, mount,
50mm guide scope,
cables ...

Best Autoguider and Guide Scope for 2020 - Astronomy Online

Latest News. PHD2
v2.6.9 Released. Head
to Downloads for the
installation files and
release details.. PHD2

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Best Practices. Bruce and Andy have compiled a list of best practices for PHD2. These aren't "must-do's", but they represent lessons learned from both personal experience and from analyzing hundreds of log files covering a wide range of equipment configurations.

- **PHD2 Guiding**

Whether you're

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shooting with a DSLR or a dedicated astronomy camera, capturing longer exposures means that more light (or signal) can be recorded in a single shot. You'll often reveal much more signal on a deep-sky object in a 5-minute exposure than you would in 30-seconds. This makes being able to consistently capture long exposure images

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**Autoguiding a
Telescope for Deep
Sky
Astrophotography ...**

The QHY 5L-II monochrome (blue) camera uses the one-third inch, 1.2 MP Aptina MT9M034 CMOS sensor. The 1280 x 960-pixel array of 3.75 um pixels are capable of video speeds of 30 frames per second at full resolution! See more with OPT!

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QHY 5L-II
Monochrome CMOS
Telescope Camera

MetaGuide is a video-based tool for precise collimation using the in-focus diffraction pattern of a star.

MetaGuide also autoguides and has several novel features that allow optimal guiding of mid-range mounts under typical seeing conditions.

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MetaGuide -

AstroGeeks:

**Astronomy Products,
Astronomy Fun**

The ZWO ASI120MC-S
Colour 1/3" CMOS
USB3.0 Camera with
Autoguider Port is an
excellent choice for an
affordable planetary,
guide or basic deep sky
colour camera. This
version is USB3.0 and
comes with an ST4
AUTOGUIDER PORT
and 150 degree wide
angle lens.

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Guide Cameras Archives - Modern Astronomy

QHY had arrived in the amateur astronomy imaging market to stay. Another reality of astro-imaging that did not escape Dr. Qiu's attention was the need for autoguiding, although the first QHY autoguider almost never was. While experimenting with CMOS for deep space

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imaging Dr. Qiu
developed the QHY5.

QHYCCD Founder Dr. Qiu

As you point out, SBIG's autoguider's that use an RJ12 connector as an output have the pinout order reversed, so a cable wired pin 1 to pin 6 is necessary to reverse the signals. For Shoestring Astronomy's products, I chose to leave the output pinout the same

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as the "standard".
Thus, a cable wired pin 1 to pin 1 is necessary.

Shoestring Astronomy Support

Raspberry Pi 12MB
Color Sensor (external
link) Since May 1st
2020 a High Quality
camera sensor was
released for the
Raspberry Pi. This 12
MB sensor is now made
available for ASCOM
clients via this ASCOM
driver which enables

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applications to make
color images of up to
240 seconds duration.

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