

ST4 Interface Standard



Overview

ST-4 is an interface you will come across using astronomy equipment with some form of computer control. It might be as an ST-4 socket on a mount, a socket on the back of an astronomy camera, or an interface on some other form of guiding device such as an AstroHutech Hinode Solar Guider. The ST-4. This project was created on 02/19/2015 and last updated 4 months ago. The purpose of this project is to connect a telescope to a computer through the mount guide port (ST-4 port) using an arduino in order to cheaply add GOTO and autoguiding capabilities. This refers to a popular model of autoguider from Santa Barbara Instrument Group (SBIG), the ST-4. ST-4 interfaces use a modular-style connector and jack similar to telephone cabling, but they are. It is through camera (which connects with a cable originally used for the early St-4 autoguider) versus Pulseguide (which usually connects with a serial cable using protocols facilitated by ascom drivers). The hand controller by default is designed to communicate onboard ST4 port. The OnStep device must include be connected. Proxisky logo is displayed before.

Article Content

SV905C Telescope Guide Camera 1.23MP USB2.0 Type-C Interface, Standard ...

SV905C Astronomy guiding camera has USB 2.0 interface output; ST4 guide star interface; can compatible with PHD2; MDL; NINA; SKY-X and other software guide star, easily for focusing and ...

Proxisky OnStep ST4 Hand Controller

Compatibility Compatibility low the original OnStep design standards. The hand controller by default is designed to communicate onboard ST4 port. The requirements:

What is ST-4 guiding, and what is ASCOM guiding?

So, the ST-4 became the defacto standard for autoguiders, an it had a very specific set of instructions for use on mounts. Over the years, as other companies developed newer, faster small ...

main@onstep.groups.io | Wiki

Industry standard RJ12 jack ST4 interface with optional 5V power on pin 1. This supports the BHC and SHC but it is up to you to verify the compatibility of any other device attached (camera ...

SV905C Telescope Guide Camera 1.23MP USB2.0 ...

SV905C Astronomy guiding camera has USB 2.0 interface output; ST4 guide star interface; can compatible with PHD2; MDL; NINA; SKY-X and other software ...

[guide_port_cables.PDF](#)

Unfortunately, there is no standardized interface that all manufacturers (or even within a single manufacturer) use for this function. However, most mounts do use a de-facto standard that for lack of ...

The Ubiquitous ST-4 Port

I think of it as a USB to ST-4 converter, conveniently included as part of the guide camera with its existing USB interface. The camera itself doesn't contribute to auto-guiding beyond feeding ...

GitHub

Building your own ST-4 adapter costs less than available commercial solutions (~6 USD) and on the top of providing autoguiding, the custom driver also has a working GOTO functionality.

[st4](#) | PlanetArduino

"s Arduino ST4 interface lets you connect your PC to a reasonably priced motorized telescope mount, without ripping it apart. The ST4 port is a very basic interface.

Arduino ST4 telescope control

Basically, you need to build the USB-ST4 interface described in the github project page and modify your control pad like explained here if it doesn't have an ST4 port.

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://www.automationauthoritiesolar.co.za>

Email: info@automationauthoritiesolar.co.za

Phone: +27 82 547 3961

Address: 15 Quantum Street, Technopark, Centurion, 0157, South Africa

This document is for informational purposes only. Specifications subject to change without notice.

