

# **ST4 Interface Standard**





## Overview

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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 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. The ST-4 Port is present on some computerized mounts and it is easy to add one to motorized mounts like the EQ3 / EQ4 / EQ5.



## ST4 Interface Standard

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### **SCHEMA ST4|YAMAGATA Corporation**

SCHEMA ST4 is a new generation CCMS (Component Content Management System) that comprehensively manages massive documents and

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

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

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## GuideDream G

Connect GuideDreamST4 to the PC using a USB cable, and connect to mount using an ST4 cable from the GuideDreamST4 kit. Below, in Fig. 1, using the example of the MaximDI program, shows the

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## Model ST-4 Star Tracker Imaging Camera Operating Manual

The Model ST-4 Star Tracker / Imaging Camera is a multipurpose instrument. It can be used as an automatic star tracker to take long guided exposures of the night sky, or, in conjunction with a

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## The Ubiquitous ST-4 Port - The Neophyte Astronomer

Many telescope mounts have these ST-4 autoguider ports, including my Celestron CPC-800. My ASI120MC-S camera includes a "ST-4 compatible" autoguider port and came with a cable for



## **GuideDreamST4 - ST-4 USB Autoguiding Adapter**

The GuideDream USB Adapter is compatible with all mounts that have a standard ST4 autoguider port. GuideDreamST4 can work in a set of our mount control

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## **GitHub**

A PC-Telescope interface built around an arduino. Contribute to mgrehlinger/arduino-st4-esp32 development by creating an account on GitHub.

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## **ST4 Compatible Autoguider Cable 2M - Player One**



Player One ST4 Star Guide Cable When in use, one end of the ST4 line is connected to the ST4 star GUIDE of the star GUIDE camera, and the other end is connected

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## **ST-4**

ST-4 is essentially an interface that closes a circuit between a common wire and one of four other wires, to move a mount's position or change the speed of movement of the mount's motor. Modern ST-4

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## **ST4 on the web**

ST4 Web Author is built around the system's own editor, which allows you to complete a huge number of tasks. Its clear design language allows technical

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## **ST4 Terminal Block Technical Data , PDF , Electrical**

ST4 Terminal Block Technical Data This document provides technical specifications for the ST 4 spring cage terminal block, including: 1) Dimensions and ratings for

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## **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:

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## **SMA\_ST4\_Broschuere\_EN\_01 dd**

Prepare modular content, edit and draft texts in editors like Microsoft Word, and leave the rest to SCHEMAST4 - no programming skills are needed. Customise the SCHEMAST4



interface to suit

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## **Wie ist ST4 spezifiziert? , Forum Astronomie**

Dieses Interface besteht nach meinem Verständnis nur aus Schaltern, die per PC angesteuert werden und das Tastendrücken ersetzen. Weiter unten sieht man dann, dass dieses

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## **Standard ST4 : qui connait les signaux disponibles sur le port ?**

Mon job, c'est l'électronique donc je me disais : "Fabrique l'interface ST4 ---> moteurs pas à pas et le tour est joué". Mais petit problème : j'ignore tout de la nature électrique et informationnelle

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## **SCHEMA ST4 on the Web**

ST4 Web Editor was specially developed for optimal integration with SCHEMA ST4 and is therefore the perfect solution for every user - regardless of whether they

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## **What is ST-4 Compatible?**

We don't have to worry about what kind of mount it is; if it has a standard guide port we know just what to expect. The ST-4 didn't create the standard, by the way.

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## **Interface standard**

In telecommunications, an interface standard is a standard that describes one or more functional characteristics (such as code conversion, line assignments, or protocol compliance) or physical



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## 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

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## iOptron ST-4 Interface

Folgende Montierungen werden unterstützt: SmartStar PR GEM, GoToNovaKit und GoToStardualaxismotorKits. Zur Benutzung wird die Handsteuerbox GoToNova mit der Software Ver090630 und

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## STBus communication system concepts and definitions



To ensure easy availability of third party support and IPs, the STBus interfaces and protocols are closely related to the industry standards being developed by the open virtual standard interface alliance

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## Arduino ST4 telescope control

Details 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

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## ST-4

Today, the ST-4 interface is more of a de facto name for a particular 6-wire cable with RJ12 connectors at each end and not a true standard interface. It is also not a standard followed by all mount vendors.

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## **Astrofotografie :: Die Schnittstelle ST4**

Dieser kleine Beitrag soll Grundlagen und praktische Verwendung dieser wichtigen Schnittstelle kurz, knapp aber anschaulich darstellen. Beim Autoguiden wird mit

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## **SCHEMA ST4 - Wikipedia**

SCHEMAST4 Transformation oder kurz STT ist eine Programmiersprache für den Zugriff sowie zur Transformation von Daten, die in „SCHEMAST4“ gespeichert sind. Das Ziel der Transformation sind

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## **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.

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