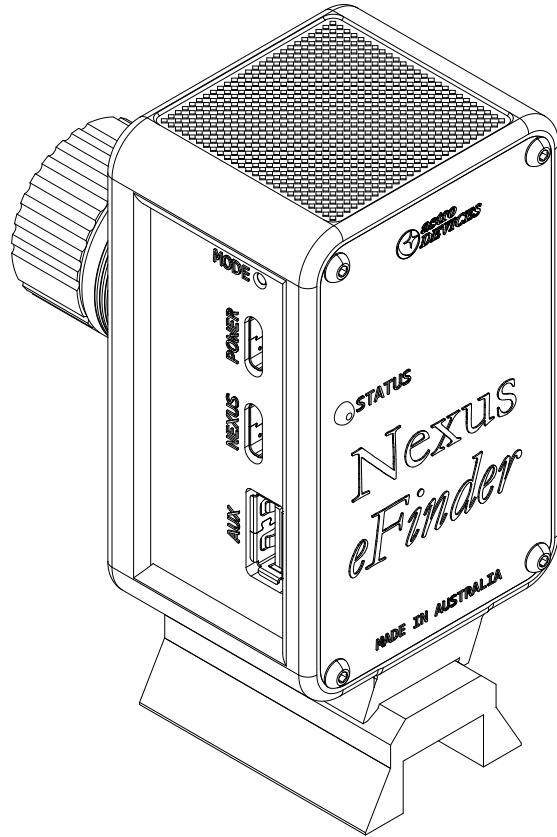


Nexus *eFinder*



User Manual



User Guide for Nexus eFinder

Version 1.0

Firmware version 9.x

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Printed in Australia

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Astro Devices reserves the right to make changes and improvements to its product without providing a notice.

Precautions and Safety

Electricity



Nexus eFinder contains sensitive electronics. Therefore, you are recommended to read the following instructions very carefully:

NEVER leave Nexus eFinder where it is subjected to extremes in temperatures. This includes low levels as well as high.

DO NOT leave Nexus eFinder where it is in direct sunlight or in an enclosed space, such as a car, that can become extremely hot very rapidly.

Do not drop or subject the Nexus eFinder to impact.



Do not handle power plug and adapter with wet hands. Electrical shock may result.

Immediately power off the product and unplug the DC adapter and/or batteries if smoke or odours emit from the product.

Immediately power off the product and unplug the DC adapter and/or batteries if water or other liquids are present.

Product



Do not drop or subject the device to impact.

Keep it away from harsh environments including humid, dusty, and smoky areas.

Do not use excessive force on the connectors or attempt to disassemble the device.

Do not place heavy objects on the product. Damage to your products may result from improper use.

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Thank you

Thank you for purchasing Nexus eFinder electronic finder for telescopes. We hope you enjoy it! This user manual will get you started and help you make the most of your Nexus eFinder.

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Introduction

With the Nexus eFinder, you're able to easily and quickly calibrate your telescope to find the objects you're looking for. The eFinder uses an in-built camera to take a photo of the sky and compare it against a database of stars to instantly identify exactly what you're looking at (a process called "plate-solving").

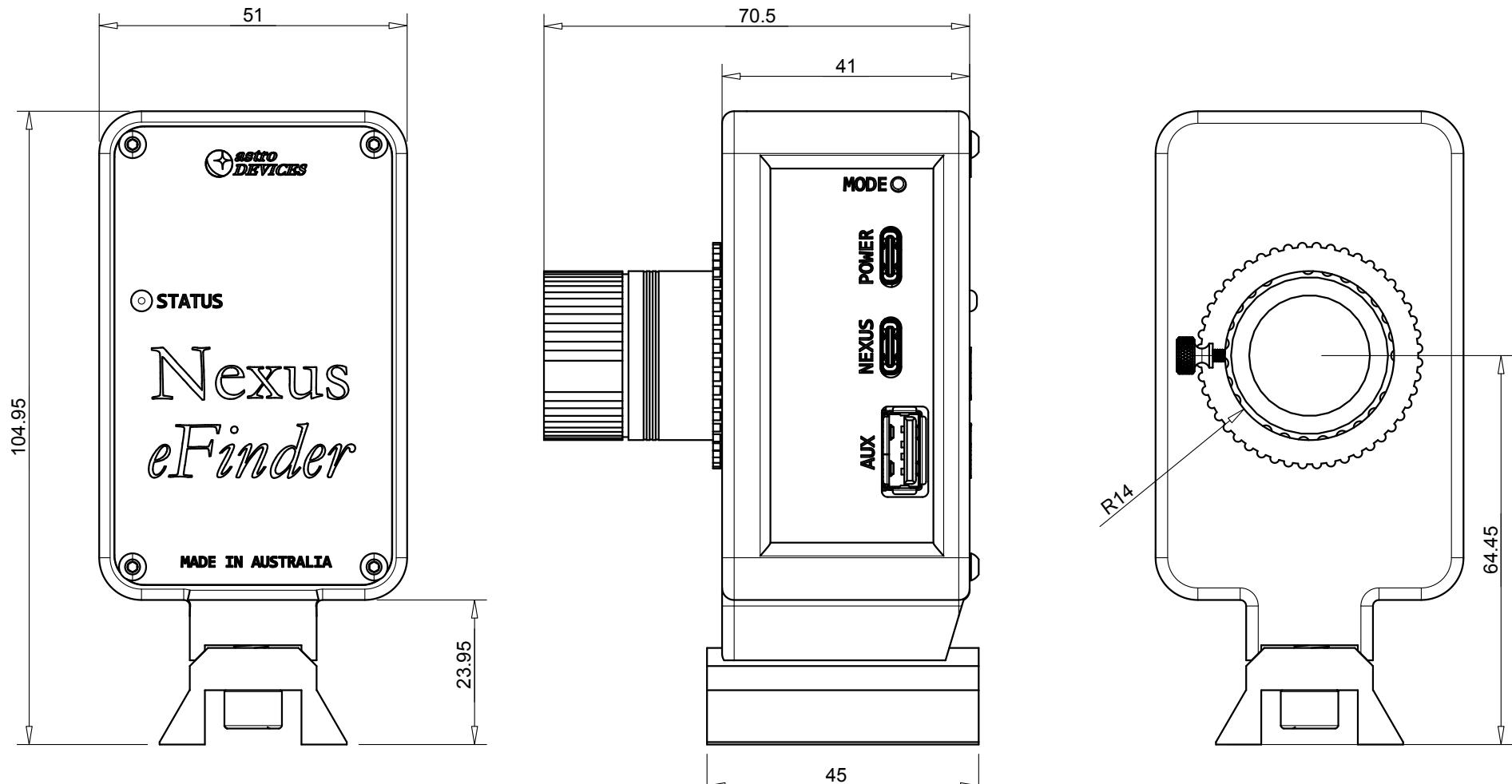
The eFinder is accurate to less than one minute of arc, helping you locate anything you want to look at, even the faintest of fuzzies.

Product Features

Below is a short outline of main features of your Nexus eFinder.

- Dual power source via USB Type C connectors
- Operating temperature range from -20 °C to +50 °C (-5 °F to +120 °F)
- Humidity 10%-90% non-condensing
- Full integration and support for Nexus DSC Pro, ServoCat, and SkyTracker
- Multiple presets for sky brightness & ability to use a custom setting to suit the sky seeing conditions
- FCC / CE/ IC certified 2.4GHz IEEE 802.11b/g transceiver
- Supports Access Point and infrastructure WiFi networks
- Secure Wi-Fi authentication schemes (WEP/WPA/WPA2)
- Class I WiFi device
- Uses 2412 ~ 2484MHz Unlicensed ISM band (channels 1-14)
- USB providing up to 0.5A, 5V power
- Uses a 64-bit quad-core Cortex-A53 CPU.
- Power consumption – 0.35 A from 5V
- RoHS compliant
- Weight – 220 grams

Dimensions



Dimensions above are in millimetres.

System Requirements

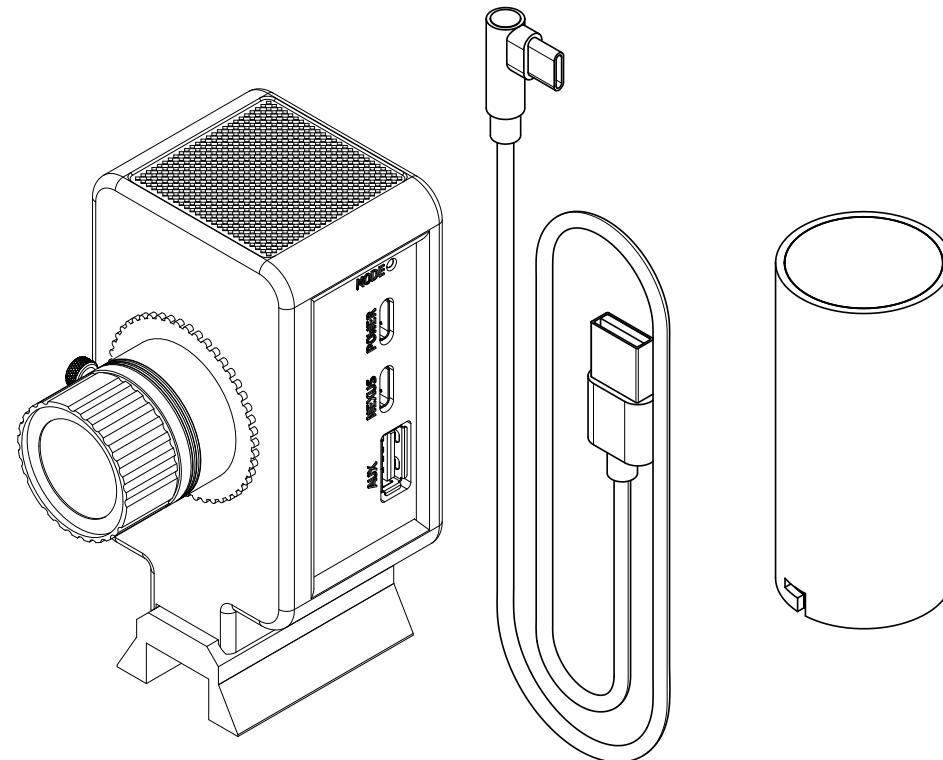
Nexus eFinder requires one of the following to operate:

- Nexus DSC Pro
- Phone/tablet running SkySafari Plus or SkySafari Pro

Package Content

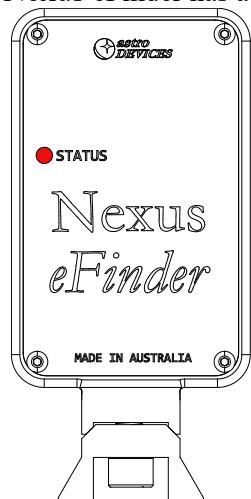
The package contains:

- Nexus eFinder
- USB Type A to USB Type C cable
- Dew shield
- User manual



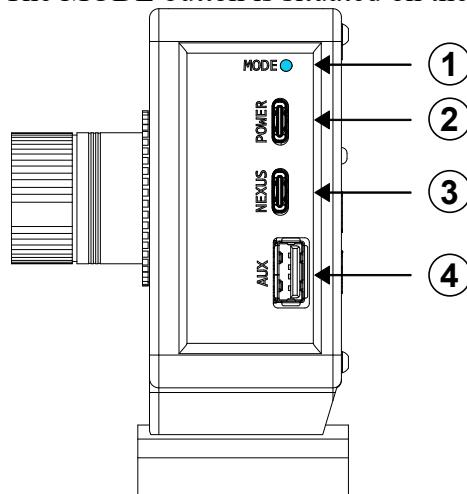
Controls/Connections

Nexus eFinder has a mode selection button and a status LED. The status LED is situated on the back panel of Nexus eFinder:



SOLID ON – indicates booting in progress
BLINKING – firmware is starting up
DIMMED SOLID ON – indicates that everything is running and ready to use

The MODE button is situated on the side panel of Nexus eFinder:



1 – MODE switch
2 – USB-C jack to power the unit from external power source
3 – USB-C jack to connect to Nexus DSC Pro
4 – USB-A jack to provide connection to ServoCAT/SkyTracker

During normal operation, Nexus eFinder is connected to Nexus DSC Pro using the supplied USB Type A to USB Type C cable. Nexus DSC Pro will provide power to Nexus eFinder. To extend the running time, an external power source can be used to connect to either Nexus eFinder or to Nexus DSC Pro.

! An external power source (like a power bank) can be connected to the USB Type C jack labelled **POWER**. It must be capable of providing at least 1A. For power requirement of the Nexus DSC Pro, please refer to its user manual.

Nexus eFinder will draw a minimum power from Nexus DSC Pro when an external power source is used to power it. The **POWER** jack has a priority over the **NEXUS** jack for powering the device.

Installation

Nexus eFinder has a standard Vixen finderscope dovetail and should be installed securely into a dovetail clamp on your telescope. It does not need a very precise alignment with the optical axis of your telescope and can be within 2°.

Nexus eFinder modes of operation

Nexus eFinder can operate in two modes:

- Integration with the Nexus DSC Pro (default)
- Nexus eFinder live mode

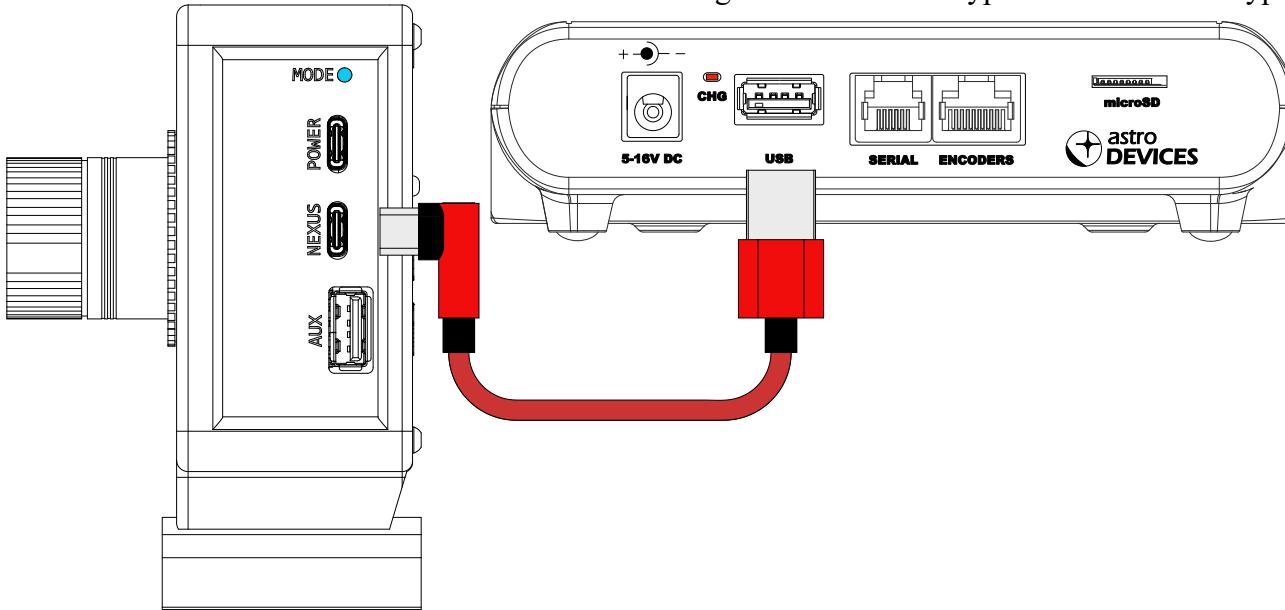
The default mode of operation is intended for using it with the Nexus DSC Pro. The live mode is for using it with a phone/tablet running SkySafari Plus or SkySafari Pro planetarium application.

Integration with Nexus DSC Pro mode

This is the default mode of operation. In this mode, Nexus eFinder communicates with Nexus DSC Pro via the USB and is controlled by Nexus DSC Pro. The one/two/three star(s) alignment is performed using Nexus eFinder. This allows for easy alignment without any need to look through the eyepiece to centre the alignment star.

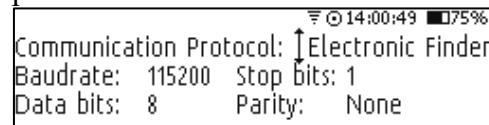
Local sync is performed using Nexus eFinder.

Nexus eFinder is connected to the Nexus DSC Pro using a standard USB Type A male to USB Type C male cable (supplied):



Nexus DSC Pro settings

Please ensure that the firmware installed in your Nexus DSC Pro is 1.4.12 or later. Please go to **Settings->Communications->USB** and make sure the parameters are set as follows:



Operation

This section describes how to operate Nexus eFinder with the Nexus DSC Pro.

Please make sure that the Nexus DSC Pro's settings are set correctly. Plug the cable from Nexus eFinder into the Nexus DSC Pro's USB port and turn it on. It usually takes 30 to 40 seconds until Nexus eFinder is ready to use. Nexus eFinder comes with the objective already focused and ready to use. If you do need to focus it again, please refer to the section on focusing later in this manual.

Here is an outline of how Nexus eFinder is used:

1. Offset calibration. Performed once only.
2. One/two/three star(s) alignment using eFinder.
3. Locating objects using the Nexus DSC Pro and using eFinder local sync to correct the pointing.

The following sections describe the above in more detail.

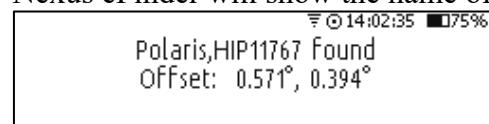
Offset calibration

Nexus eFinder needs to be calibrated before it can be used. The calibration procedure calculates the misalignment between optical axis of your telescope and optical axis of Nexus eFinder. This procedure needs to be performed once.

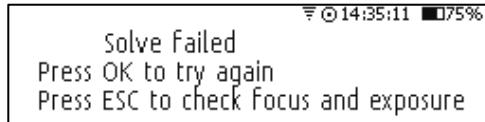
Please note that this procedure needs to be repeated if the telescope is re-collimated or if Nexus eFinder is removed and then installed again on the telescope. The offset calibration is done by going to **Electronic Finder->Offset**:



Now the telescope needs to be pointed to a bright star. Please make sure there are no other stars with similar brightness within 8°. The best star for the northern hemisphere is Polaris, while for the southern hemisphere good choices are Peacock, Rigel Kentaurus, Canopus, and Miaplacidus. The star needs to be centred as accurately as possible as this will affect the pointing precision later on. It's best to use a reticule eyepiece. Once the star is centred, press OK. Nexus eFinder will show the name of the star it found and the calculated offset:



If the offset calibration fails then the following message will be displayed:

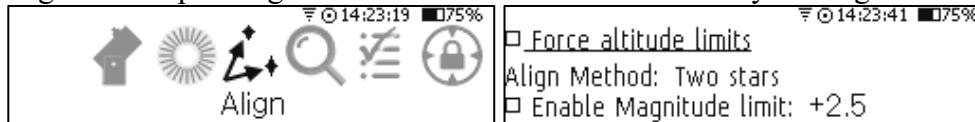


Possible causes of failed solve are:

- Cap was not removed from the objective
- Camera is out of focus
- Telescope was not pointed at a clear part of the sky
- Objective dewed up
- Telescope was moving or shaking
- Exposure/gain settings are set incorrectly for the current seeing conditions

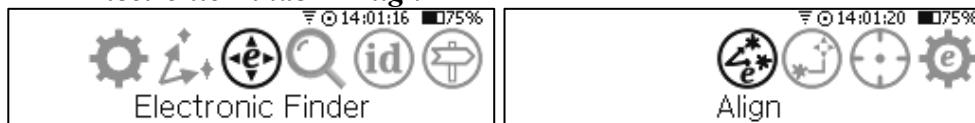
Alignment

The Nexus DSC Pro needs to be aligned before it can be used and Nexus eFinder simplifies the one/two/three star(s) alignment process. The number of alignment steps using Nexus eFinder will be determined by the alignment method set in Nexus DSC Pro's settings (*Settings->Align->Align method*):

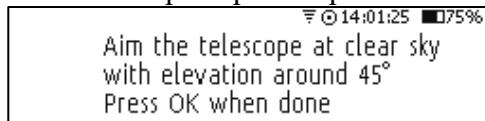


In the case of 'One star' alignment only one step will be required. In the case of 'Two stars' and 'Two stars w/o alt. reference' there will be two steps. In the case of 'Three stars' three steps will be required.

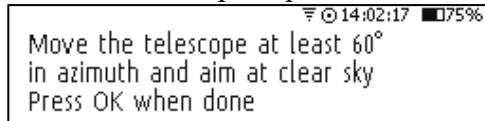
Go to **Electronic Finder->Align:**



You will be prompted to point the telescope at a clear part of the sky with the telescope pointed at approximately 45° in altitude:

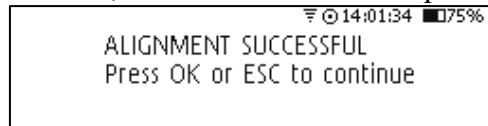


Once the telescope is pointed and settled press the **OK** key. The following message will be displayed upon a successful solve.

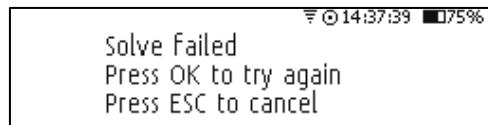


If 'one star' alignment method is selected then the above message will not be displayed and Nexus DSC Pro will finish the alignment and report the result.

Now move the telescope at least 60° in azimuth, wait for it to settle and press the **OK** key. If successful then the alignment is finished and the result will be displayed. If ‘three stars’ alignment is selected then the above message will be displayed again and you will need to move the telescope at least 60° in azimuth, wait for it to settle and press the **OK** key.



If during any of the alignment steps Nexus eFinder fails to solve, the following error message will be displayed:



You can press the **OK** key to try again – in case the telescope was moving before the next attempt should be successful.

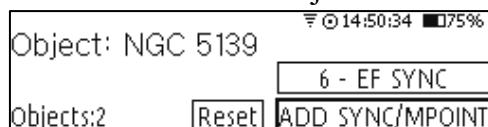
Local Sync

Local sync using Nexus eFinder significantly improves the pointing precision of the telescope. It corrects the pointing within a 10° radius of the current position of the telescope and puts the object in the centre of the eyepiece.

Select a target in one of the **Find** modes on Nexus DSC Pro. Now move the telescope until the distance to the object becomes 0.0, 0.0 or very close to that:



You can check if the object is in the centre of the eyepiece. Now press the **◀** key. You will see the following on the screen:



Now press the **6** key. Nexus eFinder will take an image of the field and find the exact position the telescope is pointing. Then it will return the determined position to Nexus DSC Pro to apply the local correction. The display will go back to its previous state showing the distance to the object but now taking the correction into account:

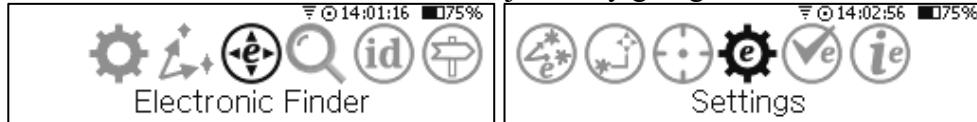


Now you need to move the telescope until the distance to the object becomes 0.0, 0.0 or very close to that. The object will be in the centre of the eyepiece.

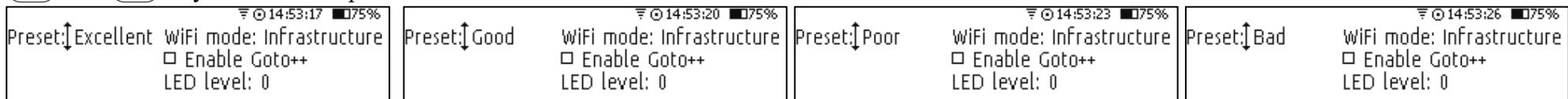


Settings

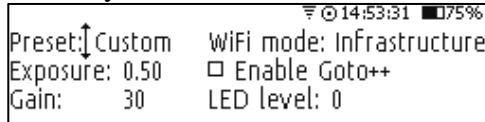
Parameters of Nexus eFinder can be adjusted by going to **Electronic Finder->Settings** menu:



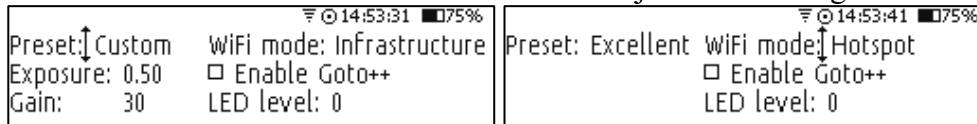
The **Preset** field controls exposure and gain. Available options are: **Excellent, Good, Poor, Bad** and **Custom**. They refer to the seeing conditions. Use the **◀** and **▶** keys to select the preset.



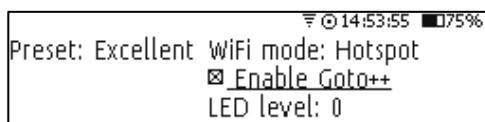
In case you need to use custom values for the exposure and gain select **Custom** and set **Exposure** and **Gain** to the desired values:



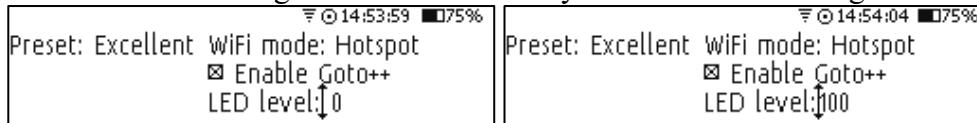
The **WiFi mode** controls whether Nexus eFinder joins an existing WiFi network (Infrastructure) or creates its own WiFi Access Point (*Hotspot*):



When the Nexus DSC Pro is connected to a telescope with a drive system (StarDrive, ScopeDog, SiTech, ServoCAT, AZ100) then it is possible to use automatic local sync. The telescope will slew to the target upon receiving a GOTO command and once the turn is finished, it will do a solve, apply a local sync, and do the final slew to have the object in the centre of the eyepiece. To achieve this functionality, enable the **Goto++**:



The status LED's brightness is controlled by the **LED level**. It ranges from 0 (disabled) to 100 (maximum brightness) in steps of 1.



Solve Assistant

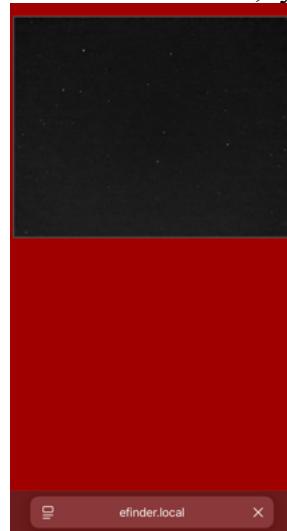
Solve Assist will help you to adjust settings of Nexus eFinder to successfully solve across the whole sky. It can be accessed by going to **Electronic Finder->Solve Assistant** menu:



In this mode the display shows a thumbnail image of the brightest star in the field, a point spread function graph (PSF) and current exposure and gain. The bottom of the screen shows number of the stars found and peak signal.

Nexus eFinder requires at least 20 stars in the field to successfully solve. The PSF graph should show a nice sharp peak – if the top is flattened then you need to adjust the exposure/gain values. Nexus eFinder will take a new image and try to solve every time you adjust exposure, gain or just press the **OK** key.

If the objective loses focus then you can set the WiFi mode of Nexus eFinder to Hotspot and then join its WiFi network on your phone/tablet/computer, go to the web browser, type **efinder.local** in the address field of the browser. You will see a photo of the sky field:



Live Mode

In this mode Nexus eFinder is used without the Nexus DSC Pro. You will need SkySafari Plus or SkySafari Pro running on your phone/tablet to use Nexus eFinder in this mode. Nexus eFinder continuously takes images and solves them and then sends the determined coordinates to SkySafari. You will need a 5V power source (power bank) with a USB-A jack to power the unit. A power bank with a USB Type C jack can also be used but you will then need to use a USB Type C to USB Type C cable in that case.

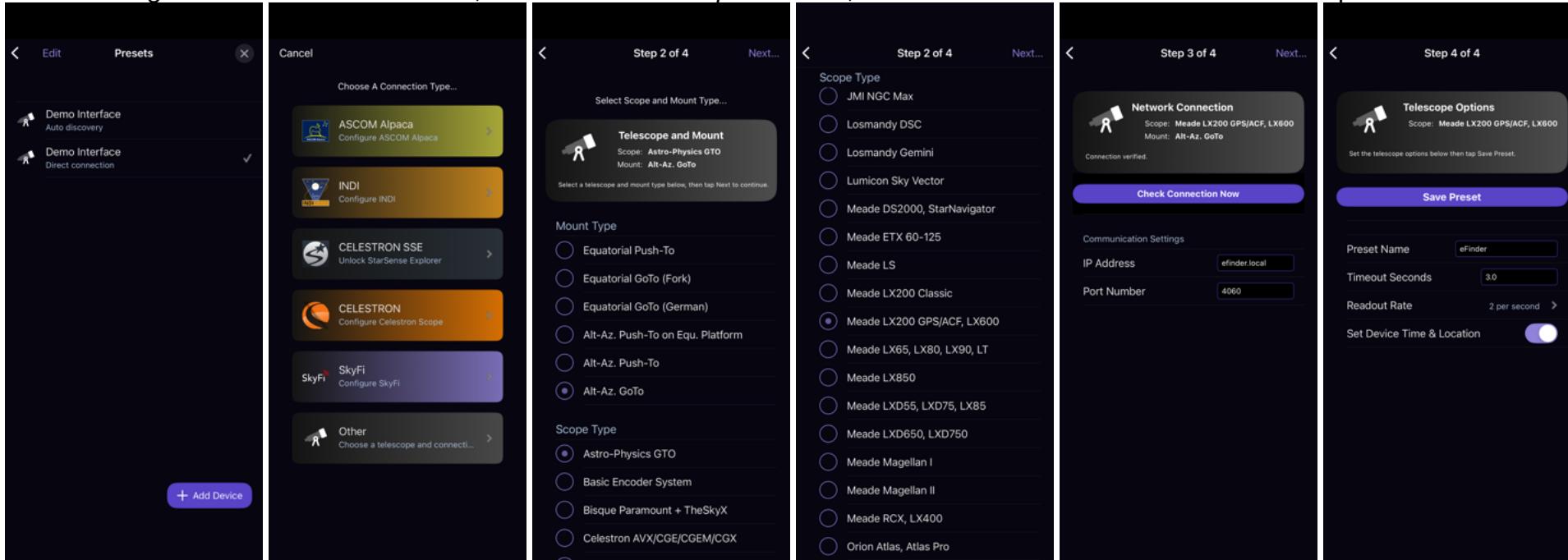
You need to press and hold the **MODE** button and connect power while holding the **MODE** button until you see the **STATUS** LED starts blinking rapidly after which you can release the button.

SkySafari Settings

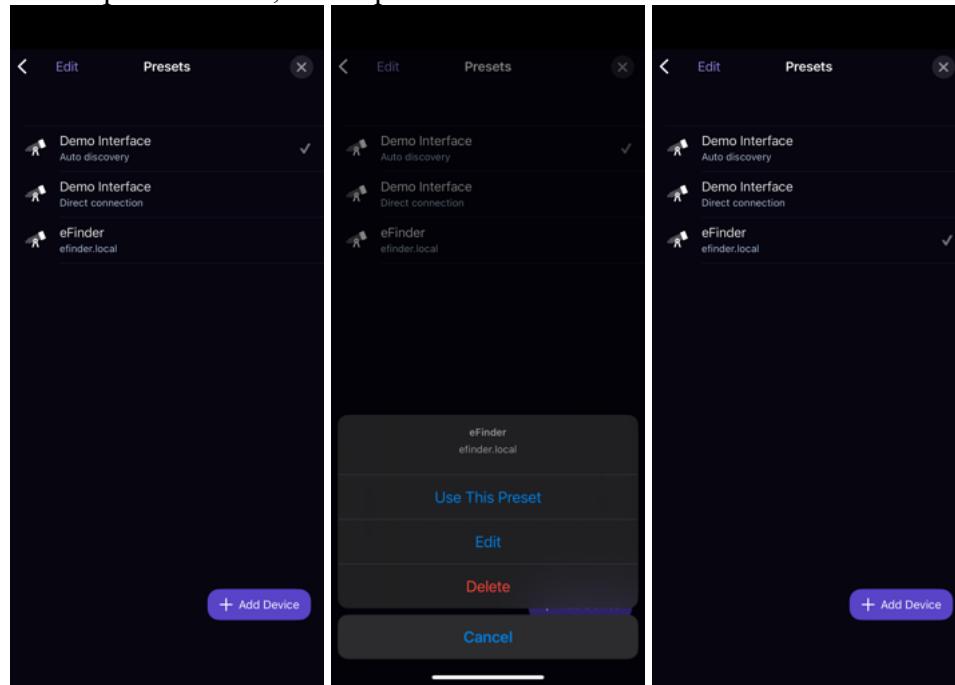
Please join Nexus eFinder's WiFi network via the WiFi settings of your device. The following procedure needs to be done only once.

Start SkySafari. Tap on **Menu->Settings** then scroll down to **TELESCOPE** and tap on **Presets**.

1. Now tap on **Add Device**.
2. Tap on **Other**.
3. Select **Alt-Az. GoTo** as the **Mount Type** and **Meade LX200 GPS/ACF, LX600** as the **Scope Type** and tap on **Next**.
4. Change the **IP Address** to **efinder.local** and the **Port Number** to 4060, tap on **Next**.
5. Change **Preset Name** to **eFinder**, **Readout Rate** to 2 per second, enable **Set Device Time & Location**. Tap on **Save Preset**.



Now tap on **eFinder**, then tap on **Use This Preset**.



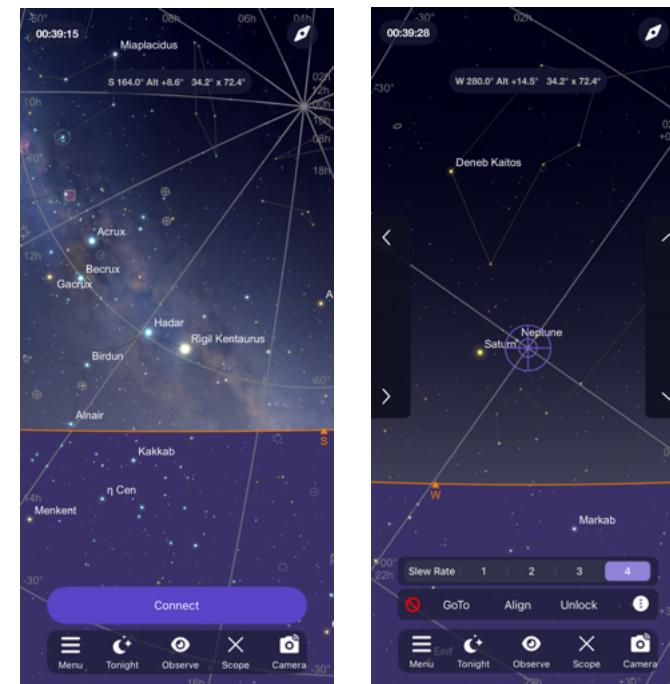
Using SkySafari

Tap on the **Scope** icon and then tap on **Connect**.

You will see a telescope cursor appear on the screen indicating the current telescope position.

You can move the telescope and the telescope cursor will move every time Nexus eFinder performs a solve.

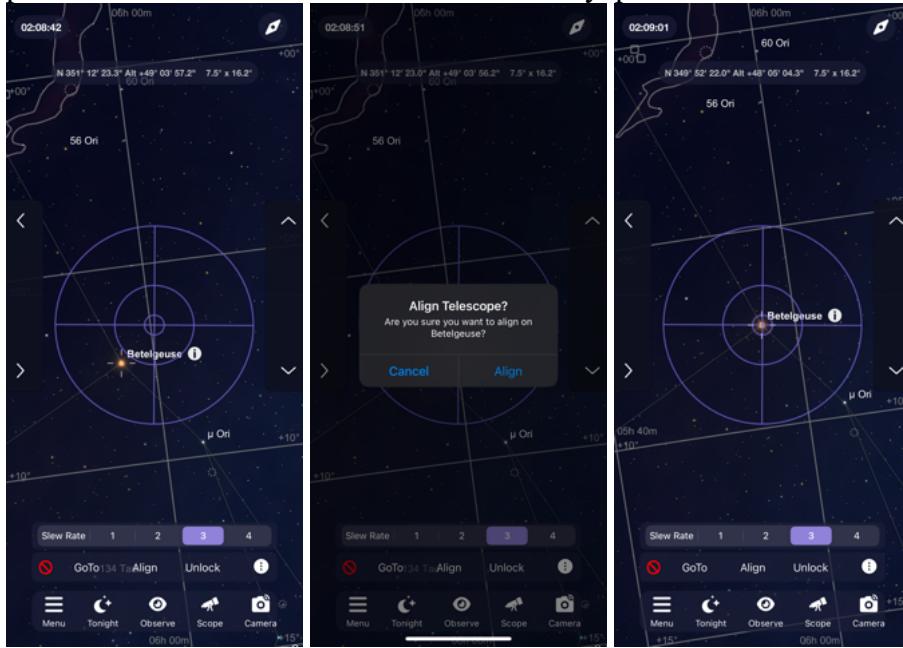
Please note that Nexus eFinder cannot perform a successful solve while the telescope is moving.



Offset Calibration

Nexus eFinder needs to be calibrated before it can be used. Tap on **Connect**.

Find a bright star that you can easily identify. Then find it in SkySafari and tap on it. Now centre it as accurately as possible as this will affect the pointing precision later on. It is best to use a reticule eyepiece. Once the star is centred press **Align** and then tap on **Align** in the pop-up window.



Controls

The following table lists buttons in SkySafari that control various Nexus eFinder's parameters.

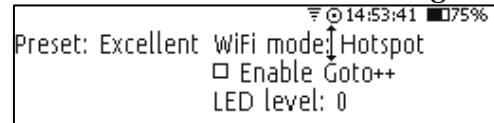
Button	Function
Align	Performs offset calibration
Slew rate slider	Controls the exposure and gain setting: 1 – Excellent seeing 2 – Good seeing 3 – Poor seeing 4 – Bad seeing
Move scope up	Increase exposure by 0.1 second
Move scope down	Decrease exposure by 0.1 second
Move scope right	Start taking images (stops after 100 images)
Move scope left	Stop taking images

The images can be accessed in the web browser on your device by going to **efinder.local** as the URL.

Firmware update

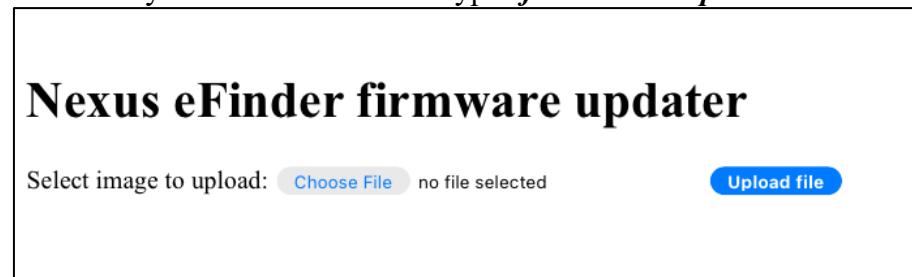
Download the firmware update package from <https://www.astrodevices.com/downloads/softwareupdates> and save the package on your phone/tablet/computer. Please note the firmware package is named ***efinderUpdate.zip*** – do not rename the file as the update will fail.

Go to ***Electronic Finder->Settings*** on your Nexus DSC Pro and set the **WiFi mode** to **Hotspot**:



Then go to WiFi settings on your phone/tablet/computer. You will see a new WiFi network on the list of available networks named ***efinderXXXX*** where **XXXX** is the serial number of your Nexus DSC Pro. Please join this network – the password will be the same as on your Nexus DSC Pro in Access Point mode (if you did not set the password then it will be ***Password***).

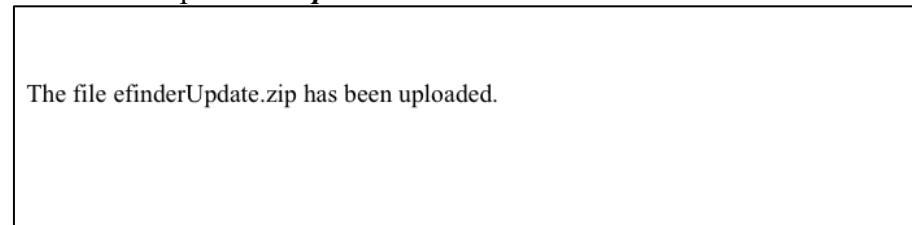
Now start your Web browser and type ***efinder.local/updater.html*** in the address field of the browser. You will see the following page open:



Click/tap on ***Choose File***, browse and select the downloaded firmware image ***efinderUpdate.zip***.



Then click/tap on the ***Update*** button. Nexus eFinder will download the update.



Then you need to disconnect the power and reconnect the power again. Nexus eFinder will apply the update and then reboot – this will all take around a couple of minutes. Once it boots up again the new updated firmware will start automatically.

FREQUENTLY ASKED QUESTIONS (FAQ)

Q: Will the eFinder work in light polluted skies?

A: Yes, absolutely. Nexus eFinder has a very sensitive sensor that allows it to capture stars that are not visible to eyes.

Q: How accurate is Nexus eFinder?

A: The accuracy is better than one minute of arc.

Q: How long does eFinder take to get a position?

A: The time to determine the current position depends on the exposure setting. With the exposure set to 0.2 second it takes 0.4 second on average to get the position.

Q: How does eFinder know where the main scope is pointing?

A: It calculates the offset between the optical axis of the telescope and the optical axis of its objective lens during the offset calibration. That offset is saved and used subsequently in calculating the telescope position.

Q: Why do I not have to point at stars anymore to do the initial alignment?

A: Nexus eFinder uses a large database of star patterns to determine where the telescope is pointing so it can be pointing anywhere in the sky. The Nexus DSC Pro requires only right ascension and declination value during the alignment. eFinder reports those values to the Nexus DSC Pro during the alignment thus negating the need to point at any particular star during the alignment.

Q: How do I focus the camera?

A: Loosen the thumb screw on the objective and then rotate the focusing ring on the objective. Please refer to the [Solve Assistant](#) section for more details.

Q: How long does the battery in the Nexus DSC Pro last with Nexus eFinder connected to power it?

A: That depends on a number of different factors – type of encoders used, and operating temperature to some extent. For example, the internal battery (fully charged) will last for around 7-8 hours with US Digital S2/S6, 10000 steps encoders connected to the Nexus DSC Pro.

Q: Can I connect external power source to the Nexus DSC Pro with Nexus eFinder connected? How does it affect the battery life?

A: Yes, you can connect external power source to the Nexus DSC Pro. Please note that in that case the external power source will be used to power everything – the Nexus DSC Pro and Nexus eFinder. Initially the external power source will be used to also charge the Nexus DSC Pro's battery.

Q: Nexus eFinder fails to solve – what should I check for?

A: First check that the cap has been removed from the dew shield/objective. Then make sure the telescope is pointing at a clear part of the sky. Inspect the objective lens for any dew. If all that is fine then you need to verify that the objective lens is focused.

Q: Nexus eFinder doesn't always solve – what should I do?

A: Try adjusting the exposure/gain preset to poorer seeing, i.e. if the *Excellent* preset was selected then change it to *Good*. Also, make sure the scope is not shaking when doing the electronic finder local sync.

Q: Nexus eFinder successfully solves but the object is still not centred?

A: Perform the offset calibration again. Centre the star using a reticule eyepiece. If you do not have a reticule eyepiece then use the shortest focal length eyepiece you have and then defocus the image to ease the centring of the star.

Q: I am trying to use Nexus eFinder in Live mode with SkySafari running on an Android based device and it won't connect?

A: After joining Nexus eFinder's WiFi network you need to wait until Android OS displays a pop-up window with a warning that the network does not have Internet access and asks you whether to keep the connection or not – you need to choose the option to keep your device connected. If you have already joined the Nexus eFinder's WiFi network and missed the warning message then you need to go to the WiFi settings, select Nexus eFinder's WiFi network and then choose 'Forget this network' and then join it again and wait for the warning message.

Warranty

Nexus eFinder is covered by a one-year limited warranty. Please refer to the enclosed warranty certificate for full details.

Technical Support

You can find the latest version of the manual and firmware in the support section of our website. Please feel free to e-mail us should you require further technical assistance.

Technical Support

You can find software updates and user documentation on the Astro Devices website.

<http://www.astrodevices.com>

e-mail: <mailto:support@astrodevices.com?subject=Nexus%20eFinder%20support>

FCC Statement for Nexus eFinder

Contains:
FCC ID: 2ABCB-RPIZ2

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE: To comply with FCC RF exposure compliance requirements, the antenna used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver



CE DECLARATION OF CONFORMITY

We, Astro Devices, ABN 75 270 616 917, 198 The Esplanade, SYLVANIA, NSW 2224, AUSTRALIA, E-mail: info@astrodevices.com,

As manufacturer/producer declare that:

Product Name: Nexus *eFinder*
Product Series: NXF10
Product Description: Electronic finder for telescopes

conforms to the following directives and standards therein

Directives:

WEEE- Waste from Electrical and Electronic Equipment - 2002/96/EC
Radio Equipment & Telecommunications Terminal Equipment (R&TTE) - 1999/5/EC
RoHS- Restriction of use of Hazardous Substances in Electrical and Electronic Equipment - 2002/95/EC

Standards:

EMC: EN 55022: EN 301 489-1 V1.8.1:2008-04, EN 301 489-17 V2.1.1:2009-05

RADIO: EN 300 328 V1.7.1:2006-10

Immunity: EN 55024: EN 61000-4-2:2001, EN 61000-4-3:2002

Safety: EN 60950-1:2006+A11:2009+A1:2010

Supplementary Information:

This unit is a battery-operated appliance.

Date of issue:

November 20th 2025

Communication Protocol

The following table lists the command set supported by Nexus eFinder communication protocol. Nexus eFinder sends **:IDeFinderLite#** upon a connection.

Command name	Command	Returns	Description
doFocus	:FS#	:FSd#	Takes an image and tries to solve, returns 1 if successful or 0 if failed
getScopeAlt	:GA#	:GAdd#	Returns the approximate telescope altitude [degrees] or, '-1' if below horizon, '99' if past zenith or '-2' if no sensor fitted.
getThumbnail	:GI#	:GI<byte array>	Returns a thumbnail image of the brightest star, 32x32 pixels, 1 byte per pixel
getPeak	:GK#	:GKddd#	Returns the peak signal (0-255) of the brightest star in the field
getOffset	:GO#	:God.ddd,d.ddd#	Returns current stored offset value x offset, y offset in degrees
getPSF	:GP#	:GP<byte array>	Returns PSF image as 32x32 pixels, 1 byte per pixel
getRADec	:GR#	:GRddd.ddd ddd.sdd.dddd#	Return right ascension and declination of the last solve position in degrees, J2000 epoch
getStars	:GS#	:GSddd#	Returns the number of stars in solved image
getSolveTime	:Gt#	:Gtdd.dd#	Returns the solve time for the last successful solve
getVersion	:GV#	:GVdd.dd#	Returns the firmware version information
getAutoExposure	:GX#	:GXdd.d#	Runs automatic exposure routine, returns the determined exposure time in seconds
imageSave	:ISd#	:ISd#	d=1, on solve, a contrast stretched image will be saved and accessible via the browser. Returns 'IS1'. d=0 turns it off, with return 'ISO' Will cancel automatically after 100 saves, when 'ISO' is returned.
getOffset	:OF#	:OFstar name,HIP,d.ddd,d.ddd#	Takes an image, solves it and returns the star name or "" or 'fail' (if the solve failed), HIP number and offset in degrees
doSolve	:PS#	:PSd#	Takes an image and tries to solve it. Returns 1 if successful, 0 if failed
setLED	:SBddd#	:SB1#	Sets the brightness of the STATUS LED (0 – turns it off, 100 – maximum brightness)
changeExposure	:SEsd#	:SEd.dd#	Increments/decrements exposure time and returns the new exposure time
changeGain	:SGsd#	:SGdd#	Increments/decrements gain and returns the new gain value
setHotspot	:SHxxxx yyyyyyyy#	:SHd#	Enable hotspot and set SSID to efinderxxxx and the password to yyyyyyyy . Returns 1 if successful and 0 if failed.
resetOffset	:SO#	:SO1#	Resets the offset to 0,0 and returns 1.
setWiFi	:SQd#	:SQ1#	Enable WiFi (1) or disable WiFi (0)
getWiFiStatus	:SW#	:SWdd#	Returns eFinder's WiFi status – most significant digit indicates WiFi status (1 – ON, 0 – OFF), least significant digit indicates WiFi mode (1 – hotspot, 0 – infrastructure)
setWifimode	:SWd#	:SWd#	Switches between hotspot (1) and infrastructure mode (0)
setExposure	:SXd.dd#	:SX1#	Sets the exposure
setTestModeON	:TO#	:TO1#	Switches eFinder to test mode
setTestModeOFF	:TS#	:TS1#	Switches test mode off

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