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CMOS CAMERA EXPERT

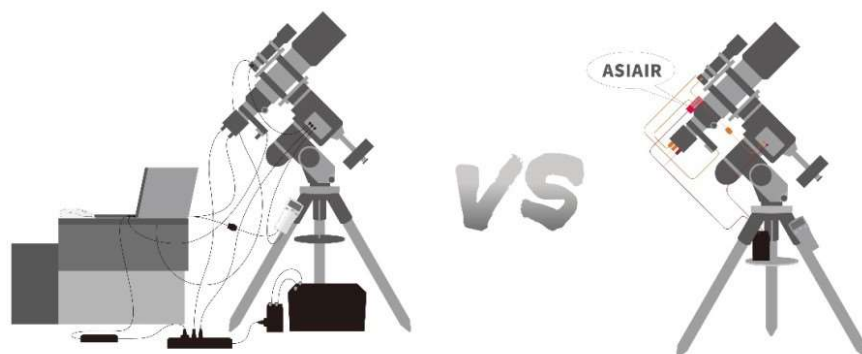| HOME go to home | PRODUCTS info & buy now | EXPLORE useful articles | GALLERY users references | DEALERS our dealers | SUPPORT manual & software | FORUM QA & share | OUR STORY company info | Search 🔍 |

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How to connect your mount to a computer? It's easy with the ASIAIR!

📅 October 17, 2019 | 👤 ZWO ASI Camera | 🏷 ASIAIR | 79 Comments

As we are sure you are aware, there are lots of different brands of mounts out there, each with different ways of connecting to a computer. This has caused a lot of confusion with needing different cables, adapters and software to run mounts.

However, ZWO have the perfect solution, the ASIAIR. Compatible with the four major methods of connecting mounts to a computer (serial port, EQMOD, WIFI and USB).

1. Serial port connection method

CEM25P/EC, ZEQ25, iEQ30, iEQ45, etc. When using serial port connection, two data cables are required to connect ASIAIR and equatorial mount hand controller (as shown above). Select the corresponding equatorial mount model in ASIAIR's equatorial setup with a baud rate of 9600.
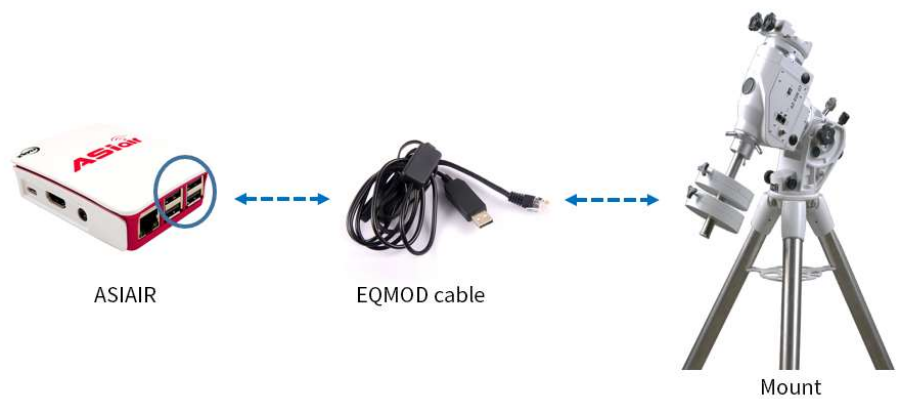
Note: ZEQ25 must stay on the menu page and accept the command connection successfully. After entering the menu, it cannot receive the control command from the serial port.

Mounts like the CEM60 also uses two serial port cables, shown above. The difference between this mount and the previous is that you can bypass the hand controller and instead plug directly into the mount.

In the ASIAIR setup, select CEM60 in the equatorial mount model selection screen and set the baud rate to 9600.

2. EQMOD connection method

EQMOD has some advantages over the previous examples, being that you only need one cable and no hand controller.

Simply select EQMOD in the ASIAIR setup screen. You can straight away use the mount without even doing a 1-star alignment.
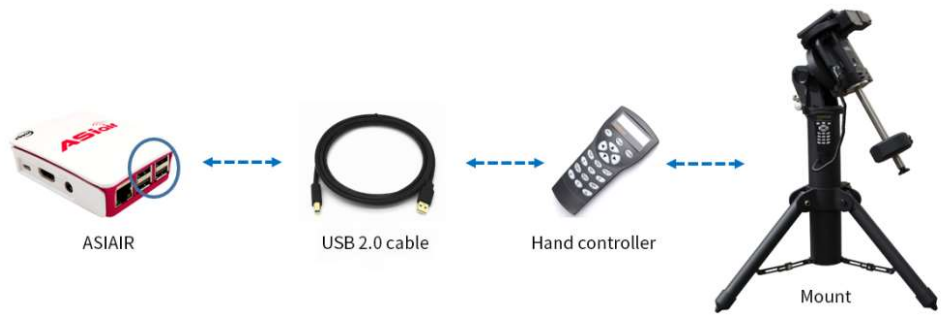
3. WiFi connection method

To use a wifi connection you must first set the WiFi parameters in the SynScan App. After this you can connect the mount the ASIAIR's WiFi and select the static IP address, 10.0.0.11.

In the ASIAIR setup, again you select EQMOD protocol and connect via port 11880 UDP.

4. USB connection method

ASIAIR ⇄ USB 2.0 cable ⇄ Hand controller ⇄ Mount

Similar to the EQMOD, this method only requires one cable and no hand controller.

In the ASIAIR setup screen, you select the mount model and then the baud rate which for the CEM120 is 9600 and the CEM40 is 115200.

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79 Responses to *How to connect your mount to a computer? It's easy with the ASIAIR!*

Andrew Usher   December 20, 2020 at 6:13 pm   Reply

Hi, I tried to connect my AsiAir to the Ioptron cem120 mount. Entered the correct mount cem120, the correct baud rate 9600 came up. But the Asiair refused to connect. After trying different leads and the different ways suggested to connect I still had no luck.
But for some reason I decided to enter the mount as cem70 , the baud rate of 115200 came up. But this seems to work. Is this correct?
Thanks for your attention.

♥ 0   💔 0

> **Support@ZWO**   December 21, 2020 at 7:55 am   Reply
>
> If this seems to work, it is correct.
>
> ♥ 0   💔 0

Richard   December 19, 2020 at 7:16 am   Reply

So I have not been able to connect my ASIAIR pro to my EQ6-r pro through Eqmod USB port nor the hand controller. I check the ports and they both work on their own but they just will not talk to each other. Everything else works fine except connecting to the mount. Any ideas? Already did the star alignment as well.

♥ 0   💔 0

> **Support@ZWO**   December 21, 2020 at 7:17 am   Reply
>
> EQ6-r pro choose serial port, baud rate 115200, and when using EQmod no need to do the alignment.
>
> ♥ 0   💔 0

> **Netsyphon**   December 23, 2020 at 1:13 am   Reply

I am also unable to connect the mount and I am using 115200 baud. Instantly not detected.

♥ 0   💔 0

Support@ZWO   December 23, 2020 at 3:16 am   Reply

Did you choose EQMode Mount as Telescope in "Telescope Settings"?

♥ 0   💔 0

Jeramygonzales23   December 14, 2020 at 9:21 pm   Reply

Hi how do I connect my CGX-L mount to my ASiair pro?

♥ 0   💔 0

Support@ZWO   December 15, 2020 at 3:20 am   Reply

1. Mount->Nexstar hand controller USB mini B port-> ASIAIR USB port.
Choose serial port, baud rate 9600.
2. You can also connect via RJ-RS232 -> USB-RS232.

♥ 0   💔 0

GEORGE   November 6, 2020 at 11:55 pm   Reply

My imaging camera is a DSLR. My guide is an ASI120MC-S. My mount is a Skywatcher Synscan.
I tried to connect via the usb/serial cable and I can connect and see all my devices. However the second I attempt to guide, my longitude gets flipped from W to E and everything goes the wrong way. I upgraded the HC and the ASIAIR V1 to latest firmware. No help. This longitude flip is all over the internet.

Today I ordered an EQMOD cable. The HC wont be there. How do I then align the scope? I dont think plate solving works for a DSLR as the imaging camera. I have a second ZWO camera a ASI224MC. How can I align the mount?

♥ 0   💔 0

sara.liu   November 10, 2020 at 9:57 am   Reply

EQMOD follows the app prompt to ensure power on at position 0.
If the DSLR can be analyzed when shooting in the preview interface, PA can be done. After PA is finished, there is no need to do scope align.
If you have 224 camera, you can also connect 224 camera to the main camera and do the second step above.

♥ 0   💔 0

Brent   October 10, 2020 at 2:18 am   Reply

I'm following option 1 to connect to an iEQ45 with the 8407+ hand controller and selecting iOptron iEQ30/45 & 8407 but no matter what baud I choose it can't connect. Any advice?

♥ 0   💔 0

ZWO.Moson October 10, 2020 at 3:52 am   Reply

Try to use different RS232 cable, and select 8406.

♥ 0   💔 0

Brent October 12, 2020 at 5:24 pm   Reply

Thank you. I didn't have another rs232 cable but was able to connect in a deferent way. I used a serial to USB adapter and plugged this directly into the mount and connected directly to the ASIair pro. With the ioptron hand controller connected to the mount I was able to connect the mount in the app. Preliminary tests seem promising. It did inexplicably disconnect a couple time but I was able to reconnect and was able to slew, goto and guide. Is there any downside in connecting this way?

♥ 0   💔 0

ZWO.Moson October 13, 2020 at 1:50 am   Reply

Sorry we haven't test this, so we do not know if there is any downside in connecting this way.

♥ 0   💔 0

ADRIANA LUJAN AMEZ September 29, 2020 at 8:07 pm   Reply

Hi!
I have the Meade LX70 mount and powered it with the SkyWatcher EQ5 GoTo kit.
I want to know if this set is compatible with AsiAir Pro and how to connect it.

Thank you very much!

♥ 0   💔 0

ZWO.Moson September 30, 2020 at 3:46 am   Reply

Sorry the ASIAIR PRO can not compatible with Meade LX70 mount.

♥ 0   💔 0

Krister September 27, 2020 at 4:06 pm   Reply

Hi – although I understood both ASIAIR and Celestron StarSense are ASCOM compatible, it's seems StarSense camera is not supported in ASIAIR guide scopes. Is this correct or is there any way to connect the 2? Thanks

♥ 0   💔 0

ZWO.Moson September 28, 2020 at 1:55 am   Reply

Yes, the ASIAIR does not compatible with Celestron StarSense camera.

♥ 0   💔 0

Krister   September 27, 2020 at 4:01 pm   Reply

Hi – Is there any documentation available to explain how to connect the ASIAIR to a Celestron Nexstar Evolution Alt Az mount WiFi module? Is it supported or do we need another cable to replace the USB/serial cable that won't work on Celestron scopes? Any help would be appreciated…so far, doesn't look possible. Thanks.

❤ 0   💔 0

ZWO.Moson   September 28, 2020 at 1:48 am   Reply

1. Mount->Nexstar hand controller USB mini B port-> ASIAIR USB port.
Choose serial port, baud rate 9600.
2. You can also connect via RJ-RS232 -> USB-RS232.

❤ 0   💔 0

David   September 23, 2020 at 9:09 pm   Reply

What is the simplest way to connect an Ioptron IEQ30pro to ASIAIR?

Thanks

❤ 0   💔 0

ZWO.Moson   September 24, 2020 at 2:56 am   Reply

You can use RJ-RS232 cable which is the most simplest way.

❤ 1   💔 0

David   September 24, 2020 at 5:37 pm   Reply

Thank you for your quick response. I am also having a problem with the 120mm mini guide scope. No matter what I try I cannot get the ASIAIR PRO to recognize the camera.

❤ 0   💔 0

ZWO.Moson   September 27, 2020 at 2:06 am   Reply

Try different cables, USB ports, and test the camera in ASIStudio. If it still can not work, you can send an image to our support@zwoptical.com

❤ 0   💔 0

Lisa Bromfield   September 7, 2020 at 6:04 am   Reply

Is the ASIAIR compatible with a QHY guide camera?

❤ 0   💔 0

ZWO.Moson   September 8, 2020 at 3:13 am   Reply

Sorry the ASIAIR can not support the third part camera.

❤ 0   💔 0

Dave Bender   August 22, 2020 at 1:39 pm   Reply

Does the asiair pro work with a Meade lx200 acf 12"?

❤ 0   💔 0

ZWO.Moson   August 24, 2020 at 3:35 am   Reply

Yes, the ASIAIR PRO supports Meade LX200 ACF.

❤ 0   💔 0

Jeff   December 10, 2020 at 4:58 am   Reply

How do you cable connect the ASIAIR PRO to the Meade LX200 8" ACF?

❤ 0   💔 0

Support@ZWO   December 10, 2020 at 7:15 am   Reply

1. You can go to Meade Website to find some info
2. supported-mount-connect for your reference

❤ 0   💔 0

Jeff   December 19, 2020 at 5:04 am   Reply

I think you misunderstood. The meade site doesn't know about the ASIAIR. How do I physically cable connect to the LX200 ACF? And how do I cable connect the autoguider? The AutoStar II hand controller does not have any additional ports.

❤ 0   💔 0

Support@ZWO   December 21, 2020 at 6:38 am   Reply

Sorry, we haven't received feedback from users regarding how to connect LX200 ACF. If you find out the method and send to us, we would appreciate it.

❤ 0   💔 2

photon   August 11, 2020 at 7:14 am   Reply

Does ASIair work with Orion's Dobsonian goto mount (e.g. XT10G's AltAz)? Thank you

❤ 0   💔 0

ZWO.Moson　　　　August 13, 2020 at 3:22 am　　Reply

Sorry the ASIAIR does not wrok with XT10G's AltAz.

♥ 0　　　💔 0

Sid　　　　June 7, 2020 at 7:56 pm　　Reply

Can you provide recommended connection diagram for ASIAIR PRO, Celestron CGEM mount, 120mm guide scope, 294 Camera, SkySafari pro, powered hub, Wi-Fi connection. Wi-Fi extender?

♥ 0　　　💔 0

Moson　　　　June 8, 2020 at 3:37 am　　Reply

Sorry we can't provide such a clearly connection diagram. Because the ASIAIR PRO can support large amount mounts and has varies of connection method.

♥ 0　　　💔 0

Bob Miller　　　　June 24, 2020 at 12:02 am　　Reply

Can I use my new iPad running IOS software> It only has one port.

♥ 0　　　💔 0

Katherine Tsai　　　　July 6, 2020 at 11:03 am　　Reply

Yes, you can. You do not need any port to connect ASIAIR PRO, it is connected via WiFi.

♥ 0　　　💔 0

Allen　　　　June 4, 2020 at 12:05 am　　Reply

Will the asi air pro work with a Meade LX200GPS mounted on a wedge?

♥ 0　　　💔 0

Moson　　　　June 4, 2020 at 2:36 am　　Reply

Yes, the ASIAIR PRO support Meade LX200GPS.

♥ 3　　　💔 0

Tony Anthony　　　　December 10, 2020 at 12:02 am　　Reply

Exactly what cables would be needed in order to connect a LX200GPS mount to the ASIair Pro?
Thank you
Tony

♥ 0　　　💔 0

Support@ZWO   December 10, 2020 at 7:13 am   Reply

1. You can go to Meade Website to find some info
2. supported-mount-connectfor your reference

♥ 0   ⚕ 0

davide   May 14, 2020 at 11:56 am   Reply

asi air è compatibility is bresser exos 2 goto? thanks

♥ 0   ⚕ 0

Moson   May 15, 2020 at 1:47 am   Reply

Sorry the ASIAIR PRO does not compatible with bresser exos 2 goto.

♥ 0   ⚕ 0

Julia V.M.   April 25, 2020 at 9:21 am   Reply

Hi guys
just wondering about the AVX Celestron?
Could you please tell me which AVX mount can work great with your Asiair?

thank you so much
Julia

♥ 0   ⚕ 0

Moson   April 26, 2020 at 3:52 am   Reply

The ASIAIR PRO can connect with Celestron Advanced VX mount.

♥ 0   ⚕ 0

Dave   May 28, 2021 at 11:32 pm   Reply

That's great news. I've tried connecting USB 2 to the HC as well as RS232 to an
auxilliary port. Neither worked. So how do you recommend connecting ASIAIR PRO
to an AVX?

♥ 0   ⚕ 0

Support@ZWO   May 31, 2021 at 9:16 am   Reply

Mount->Nexstar hand controller USB mini B port-> ASIAIR USB port.
Choose serial port, baud rate 9600.

♥ 0   ⚕ 0

Emre   February 18, 2020 at 9:22 pm   Reply

Hello ZWO Team!

I wonder if ASIAIR Pro would be capable with Celestron stock Alt-Az mount. I converted it to EQ mount by using a wedge.

Thanks!

♥ 0   💔 0

Katherine Tsai   February 19, 2020 at 4:29 am   Reply

It supports.

♥ 0   💔 0

Alfred   October 24, 2019 at 9:43 am   Reply

Hi team,

I have two japanese old mounts which is Sky Memo R with additional autoguider and a modified Takahashi PD4XY -B control box which are set out as below:

https://page.auctions.yahoo.co.jp/jp/auction/o345084960
https://page.auctions.yahoo.co.jp/jp/auction/x648748992

May i know how should I connect to them and the setup in the App?
Thanks.

Alfred

♥ 1   💔 0

Katherine Tsai   November 14, 2019 at 10:34 am   Reply

These two mounts are two old and may not supported, you may try LX200 in the App.

♥ 1   💔 0

Tai   October 18, 2019 at 12:47 am   Reply

Hi Team

Could you please tell me which Vixn mount can work great with your Asiair

Also, if not yet, which brand mount has Wifi works with Asiar?

Thanks
Tai

♥ 1   💔 0

ZWO ASI Camera   October 22, 2019 at 6:34 am   Reply

Vixen SkySensor 2000PC

♥ 1   💔 0

Erik Mardiste

October 17, 2019 at 10:48 am   Reply

Hi guys just wondering about the skywatcher star adventure, if you can use it on that mount

♥ 1   💔 0

ZWO ASI Camera

November 12, 2019 at 10:37 am   Reply

Yes, the asiair could work with the skywatcher star adventure

♥ 1   💔 0

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