How to use an iPolar to perform polar alignment with the iOS App

5/10/2024

What are needed?

- iMateTM Astronomy Control Box
- iPolar[™] electronic polar scope
- iPad or iPhone (iPad preferred)
- iPolar iOS App from iOS Store
- NoMachine App from iOS store
- 12V DC power source

How to Use?

- 1. Download NoMachine and iPolar App from iOS store.
- 2. Connect the iPolar to the iMate using a USB cable. Connect the DC 12V power to the iMate and turn the power on.
- 3. From your iPad Wi-Fi network list, choose *iMate_XXXXXX*. Enter password *12345678* to connect the iPad to the iMate Wi-Fi network.



4. Launch NoMachine App. Click on iMate icon to start the iMate server.







5. Enter "*imate*" as both Username and Password to Login on to the iMate Server.

ite, Debian GNU/Linux 11 (bul	seye)		NOMACHIN
Type username and password to I	ogin using a system account or request access as a guest user.		
	Solution Login as a system user on this server		
	Username		
	Password		
	Save this password in the connection file		
	Request access as a guest for desktop sharing		
Always login using this n	nethod on this server	Back	ок

 Now the NoMachine will load the software from the iMate. Click on iOptron Applications bar on top left corner. In pull-down menus, select *Education =>iPolarServer*.

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1989 Settings	•	1			
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7. The iMate will connect to iPolar camera. After camera is connected successfully, you should see the following display.



8. Launch the iPolar App.



9. Click on *Connect* to connect the iPolar to the App.

Connect		
Not connected		
Confirm Position 1		
Exposure Time 250 ms		

10. After the App connected to the iPolar successfully, click on *Settings* to bring the Setting screen.



Click on *Use Current Location* to fill the Latitude and Longitude.

Latitude +00.0000 Degree Longitude +000.0000 Degree	RAW image 🔍		Take Dark Frame
	Latitude +00.0000 Longitude +000.0000	Degree Degree	
			De aluta Main

You may perform *Take Dark Frame* here with the iPolar covered.



11. Check the **RAW image** and click **Back to Main**. If the camera is facing to a distant object during daytime, you should see the image on your iPad. Adjust the exposure time to see the image more clearly.

RAW image	Take Dark Frame
Latitude42.4313DegreeLongitude-71.2521Degree	
Use Current Location	Back to Main
Settings Only 0 stars detected, Please adjust pointing of the camera, or increase exposure time to let at least 4 stars to be recognized. Confirm Position 1 Exposure Time 0.1 ms	

12. For polar alignment during the night time, follow the on screen instruction to perform the Polar alignment.