iOptron iPolar iOS App User Guide

iOptron iPolar iOS App

Contents

What are needed?

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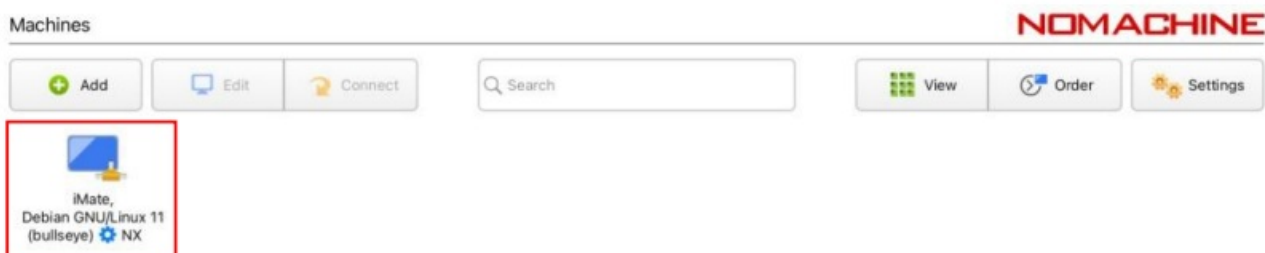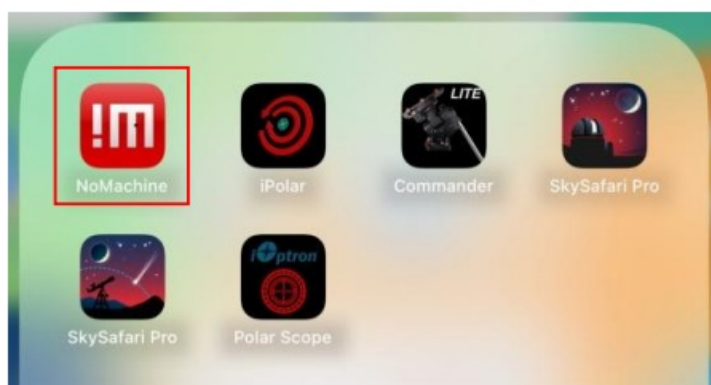- NoMachine App from iOS store
- 12V DC power source

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.

Type username and password to login using a system account or request access as a guest user.

✓ Login as a system user on this server

Username   imate

Password   ●●●●●

⬤ Save this password in the connection file

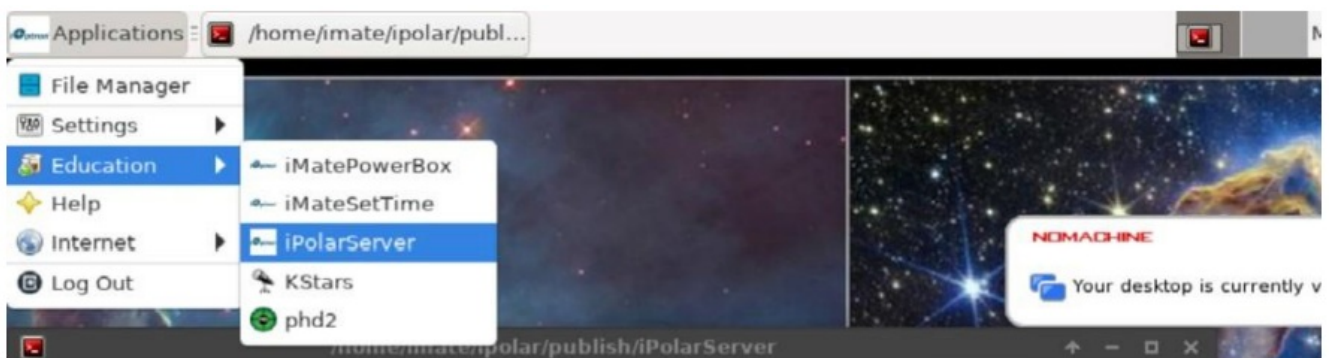◯ Request access as a guest for desktop sharing

◯ Always login using this method on this server   Back   OK

6. 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 =>iPolar Server**.

Applications ⬛ /home/imate/ipolar/publ...

File Manager
Settings   ▶
Education   ▶   iMatePowerBox
Help   iMateSetTime
Internet   ▶   iPolarServer
Log Out   KStars
                         phd2

NOMACHINE
Your desktop is currently v
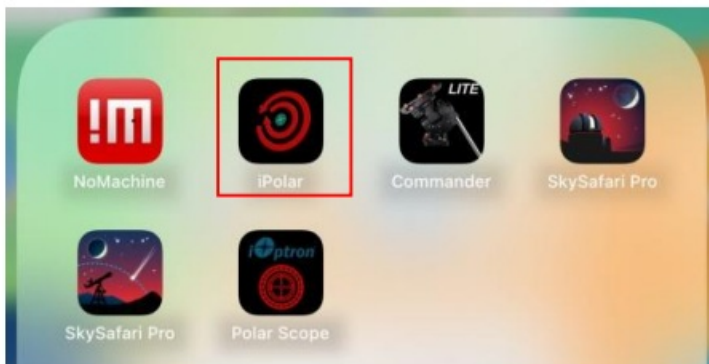
/home/imate/ipolar/publish/iPolarServer

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

```
/home/imate/ipolar/publish/iPolarServer
/home/imate/ipolar/publish/iPolarServer 80x24
iPolar server 1.09 running under Linux
Connecting to camera ....
Found iPolar on camera 1
Local IP: 172.24.1.1
Server ready. Waiting for a connection...
[ WARN:0@10.431] global /home/orangepi/ioptron/emgucv/opencv/modules/videoio/src
/cap_v4l.cpp (1013) tryIoctl VIDEOIO(V4L2:/dev/video1): select() timeout.
Houston, we have a problem! No data received from camera!
Camera disconnected.
Connecting to camera ....
Found iPolar on camera 1
Camera connected
Camera initialized
Current Exposure Index:6
```
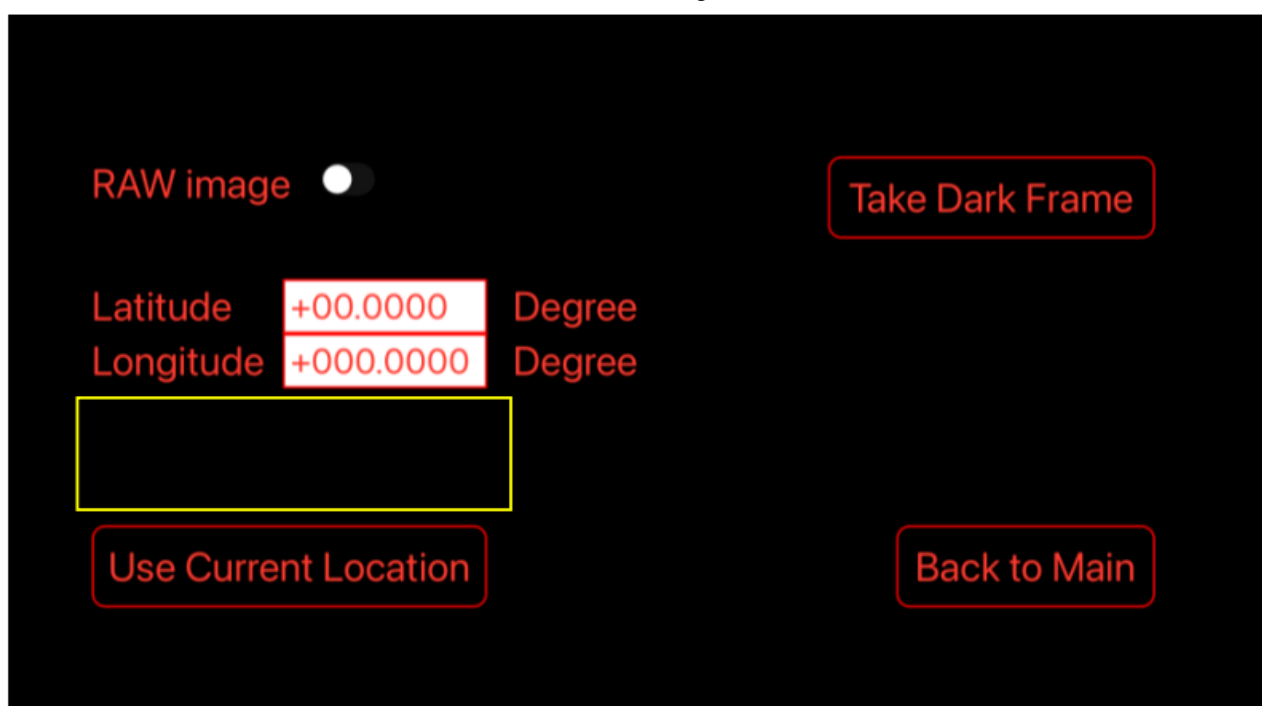
8. Launch the iPolar App.

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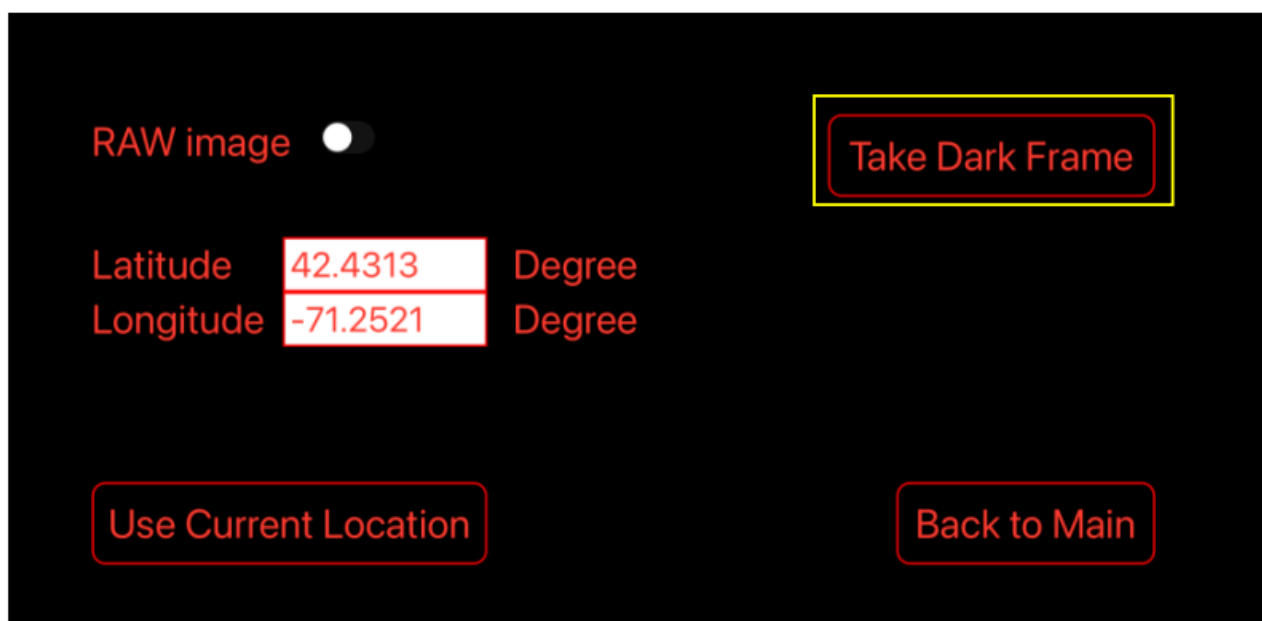

10. After the App connected to the iPolar successfully, click on Settings to bring the Setting screen.

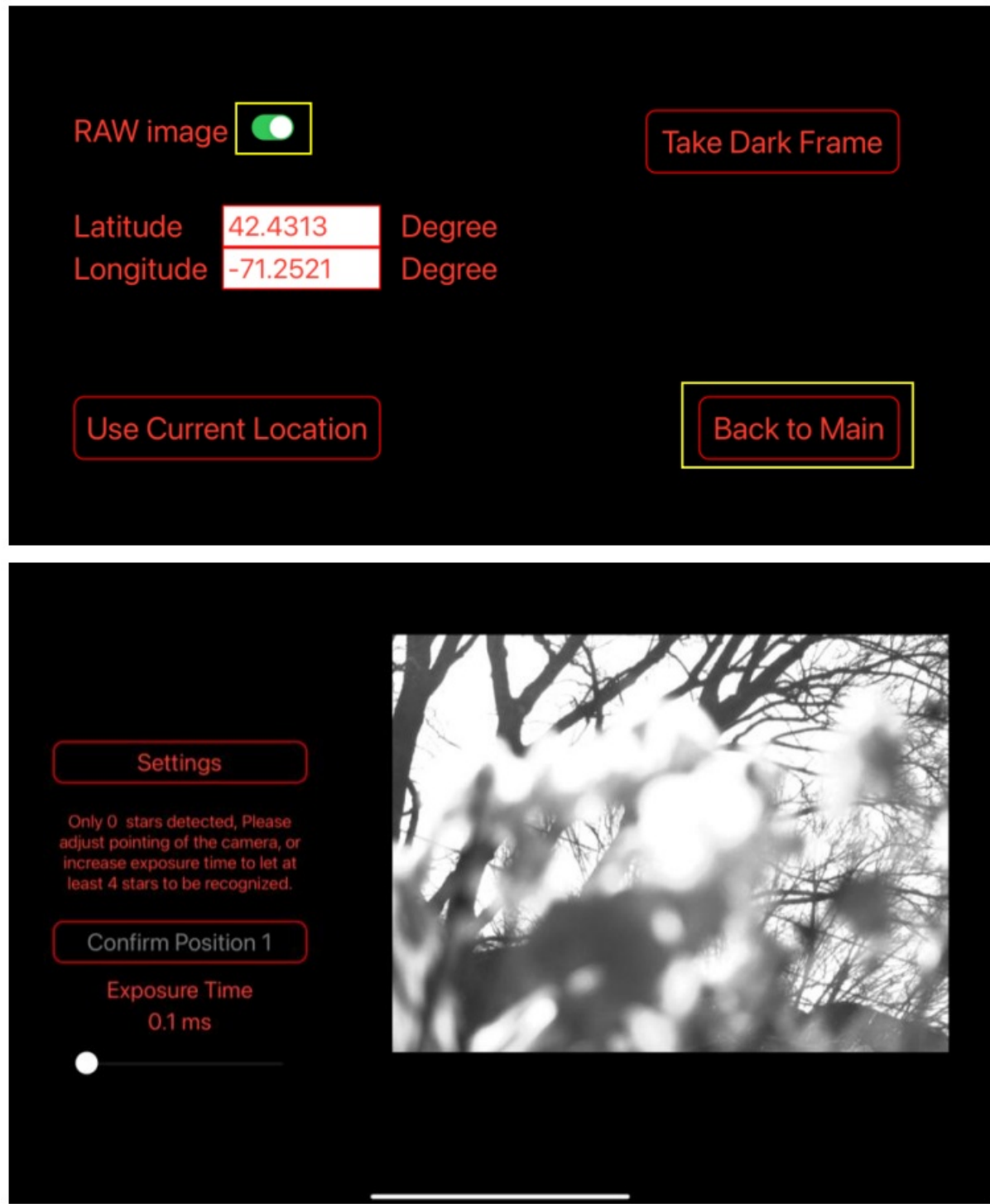Click on **Use Current Location** to fill the Latitude and Longitude.

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.

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

Documents / Resources

	iOptron iPolar iOS App [pdf] User Guide HAE29B, 3339, iPolar iOS App, iOS App, App

References

- **User Manual**