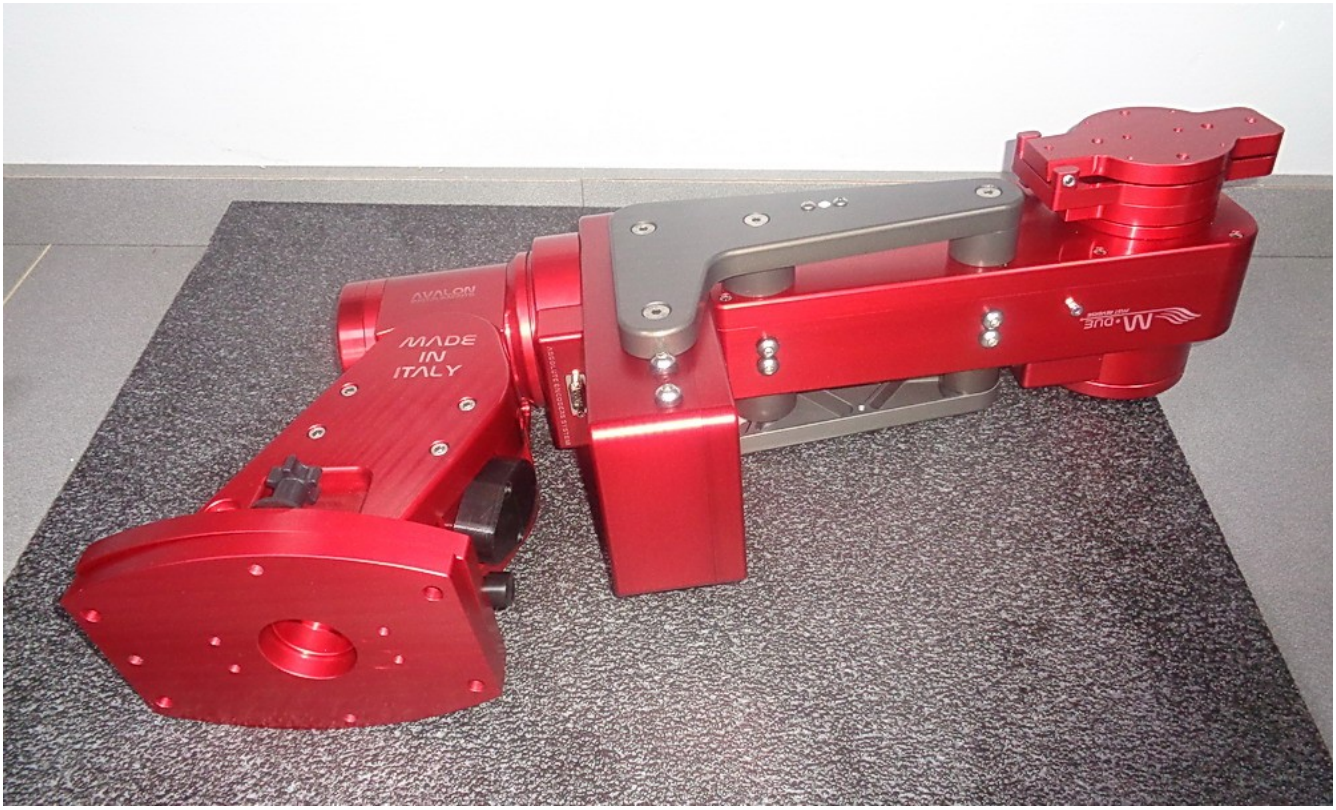
AVALON INSTRUMENTS

M-DUE OBSERVATORY INSTRUCTION SETUP

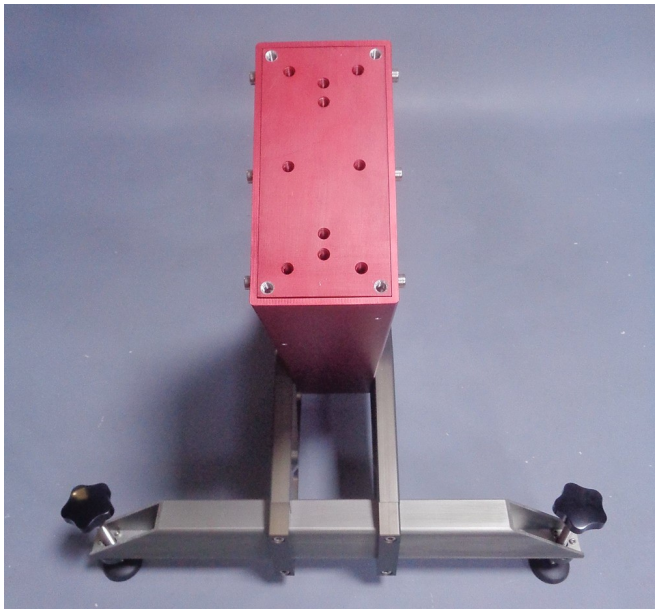
1 - Mount installation on Adjustable Angle Pier

The first operation to be performed is to take out the M-due Observatory from the box, gently leaning the mount on a flat surface, better if provided of anti-scratch foam surface.



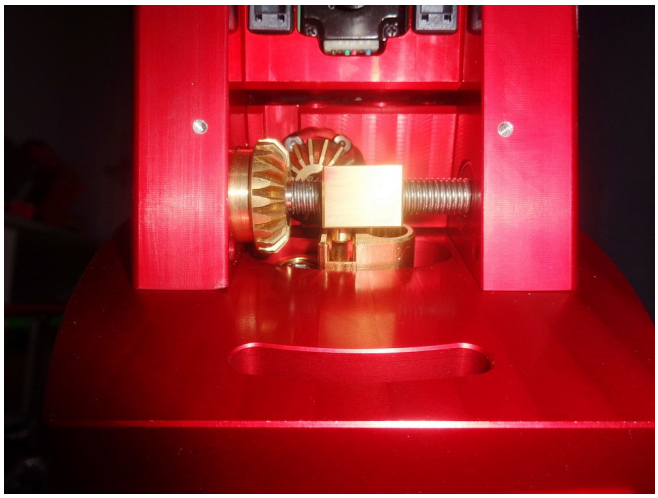
The mount comes provided of the Adjustable Angle Pier attaching flange already assembled, in order to allow a secure shipment.

In order to put the M-due Observatory on the Adjustable Angle Pier, the flange must be disassembled from the mount and attached on the Pier as shown in the pictures below.



The Motorized Polar Alignment kit Azimuth mechanics is divided in two parts that need to work together, one is placed on the mount flange, the other on the Pier attachment flange.

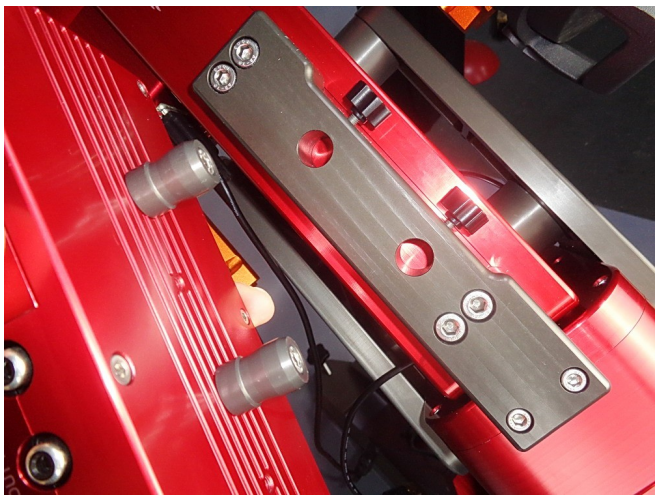
Since it was required to disassemble the base flange to be attached on the Pier, now, when putting the mount on the Pier, it is required to pay attention that the to parts must be reassembled properly, with the azimuth pin that need to slide in the azimuth adjustment brass housing. As shown in the pictures below.

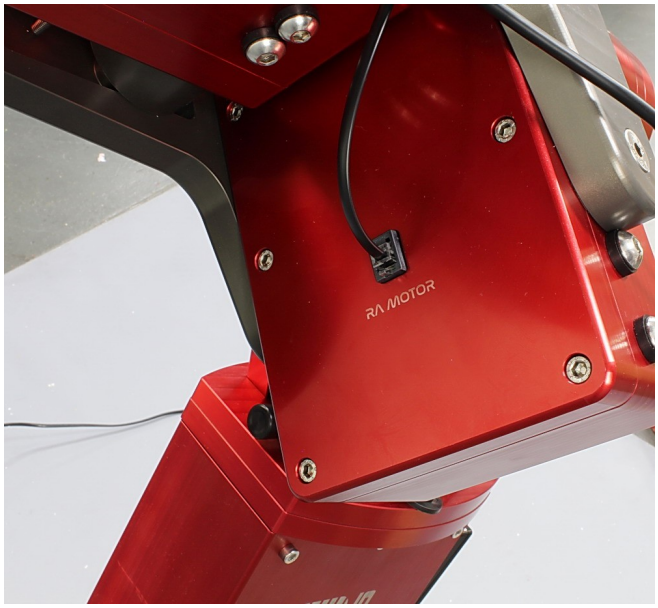
	In order to see the pin slide in the brass housing, is required to take of the protection carter.
	

When the mount will be positioned on the Adjustable Angle Pier, it will be possible to fix it with the three fixing knobs previously unscrewed.

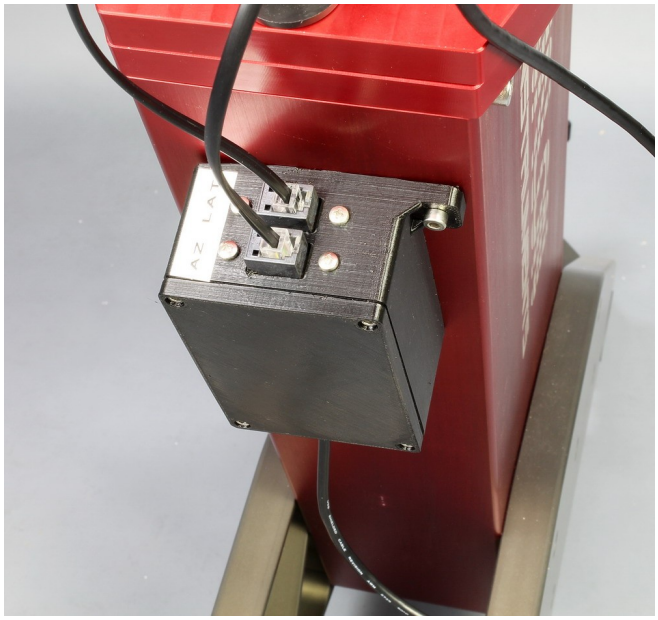
2 – StarGo2 Pro box installation

The M-due Observatory comes provided of the StarGo2 Pro controller. The box can be assembled on the DEC arm lateral side, allowing to keep all the required cables in a compact area avoiding to affect the mount rotation.

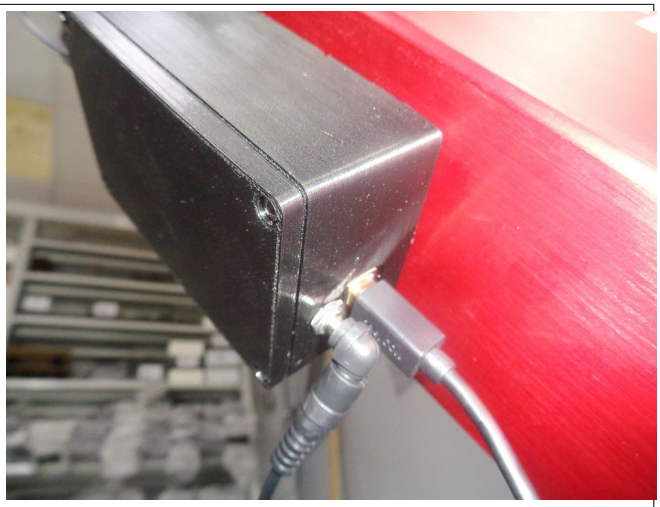
The StarGo2 Pro provided with the M-due Observatory comes with the fixing pins already assembled on the box rear side. To fix the box on the mount body, it will be just required to slide the two aluminium pin inside the adapter holes, and tight the two fixing knob, as shown in the pictures below.	
After the StarGo2 Pro box it will be assembled, it will be possible to connect the Encoder and RA/DEC cables.	

Ra motor connector plug	

Now the mount has been positioned on the Pier, is required to connect the Motorized Polar Alignment Kit with it’s dedicated controller, assembled on the Adjustable Angle Pier, as shown in the pictures below.

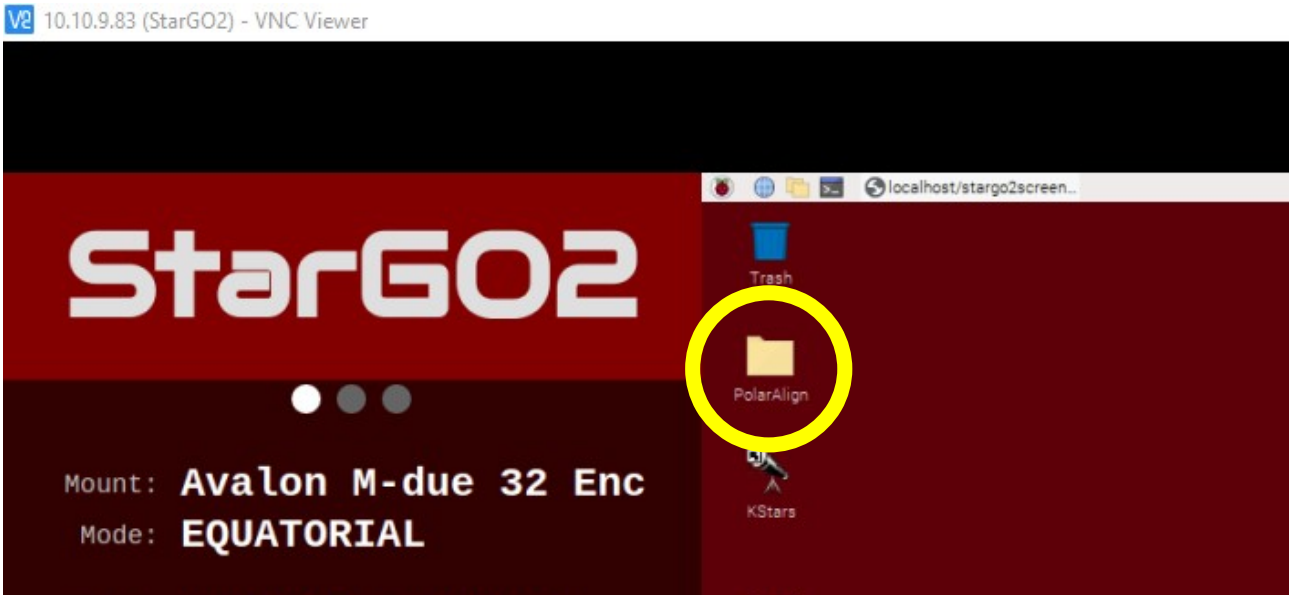
The Motorized Polar Alignment kit plug are placed on the mount base rear side. The LAT plug is placed on the left side, whereas the AZ is on the right side. The corresponding plug are labelled on the controller top.
 

The Motorized Polar Alignment kit controller must be powered with it’s dedicated 12V power supply provided in the package and connected via USB to one of the StarGo2 Pro USB ports available.

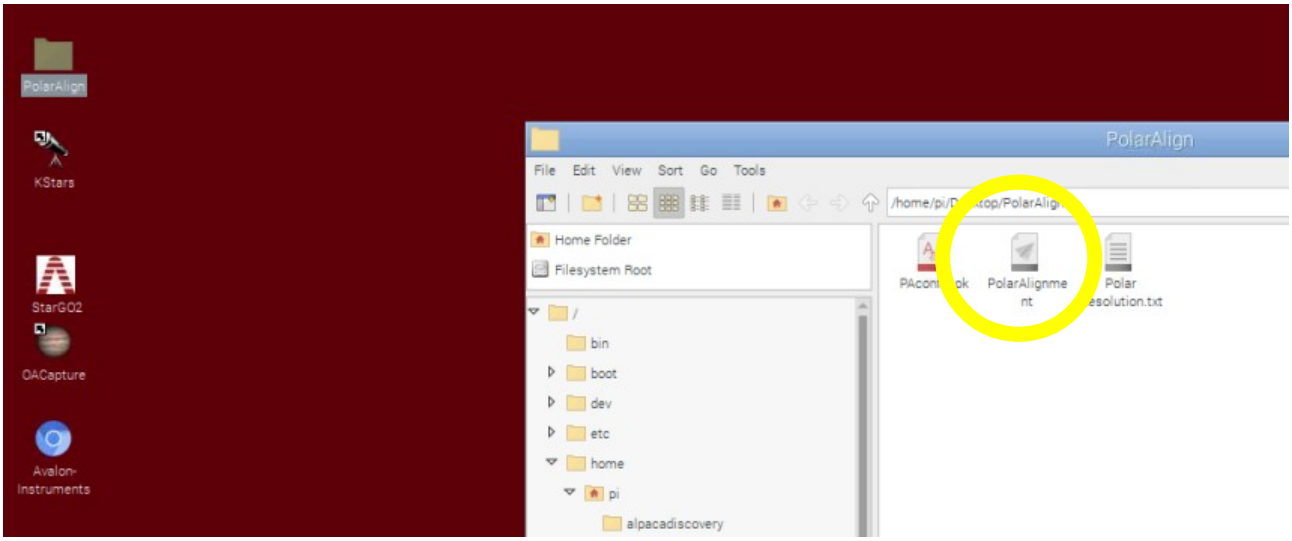


The Motorized Polar Alignment Kit control can be performed with Polar Alignemnt, it's dedicated software, preinstalled inside the StarGo2 Pro Raspberry PC. This mean that is required a Remote Desktop Connection via VNC (see paragraph 2.6.1. How to establish a Remote desktop connection via VNC, pag. 13).

The Software icon launch is located in a folder on the Desktop, the folder name is "PolarAlign".



The icon launch inside the folder is called PolarAlign as well.



By double clicking on the icon, the software window will pop up.

In order to start the motors managment, click on the connect button, when it will turn green and the label change from connect to disconnect, the connection will be established.

When all the cables will be connected, the mount is ready to be used. The starting Home Position for the M-due Observatory is with the RA arm pointed toward west and parallel on the ground.