

Preparations for ASCOM driver install

1. If a program below version 3.0.0 is installed,
be sure to uninstall the old version of the ASCOM driver for TitanTCS from the control panel.
2. Download and unzip the ASCOM driver for TitanTCS.
https://drive.google.com/drive/folders/1_BjB_LxA97z9CrsWz_TQp3jLq_8yq58i
Filename : Titan-ASCOM-20190808.exe
3. If you have an older ASCOM driver for TitanTCS, uninstall it.
4. This program requires .net 4.5 or higher.
If you use an **older operating system such as Win7**, you can download it from Microsoft.

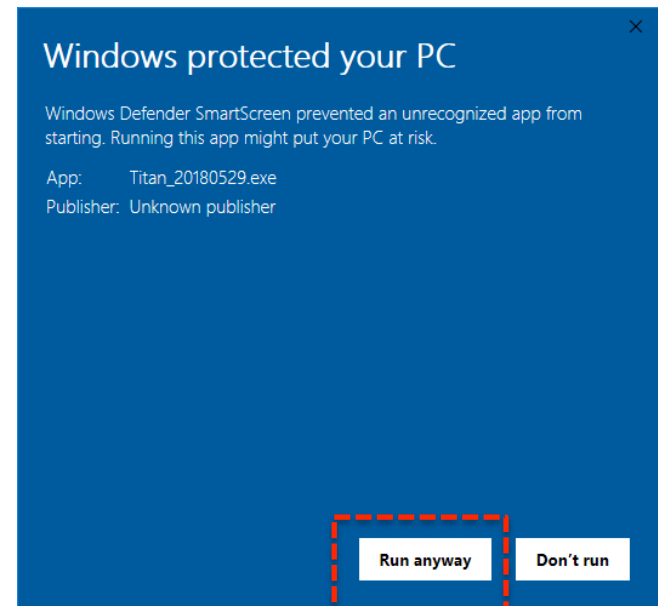
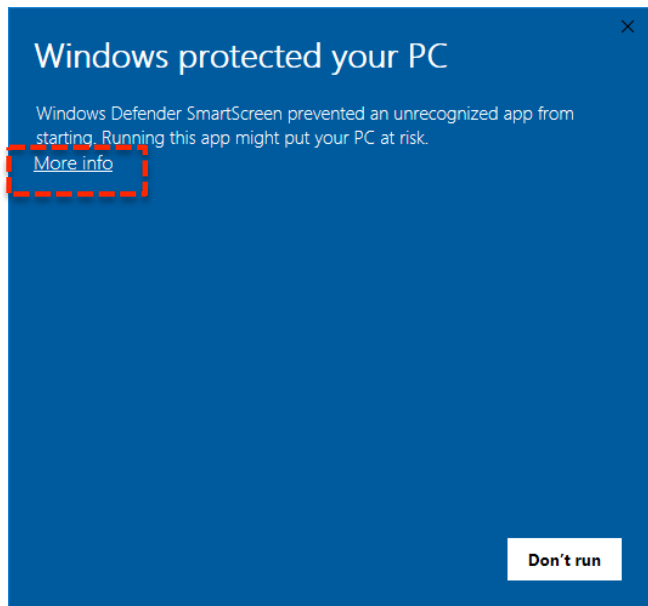
filename : NDP452-KB2901907-x86-x64-AllOS-ENU.exe

from the Microsoft.

<https://www.microsoft.com/en-us/download/details.aspx?id=42642>

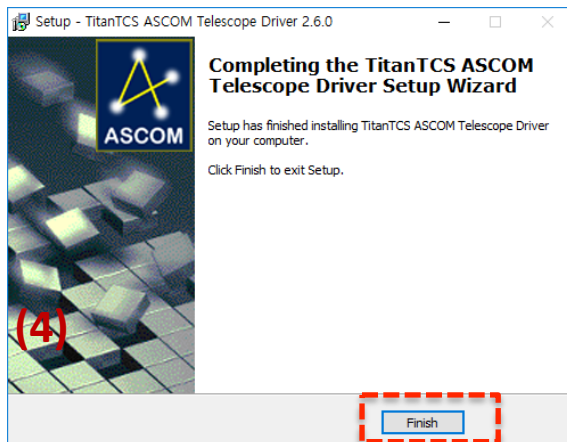
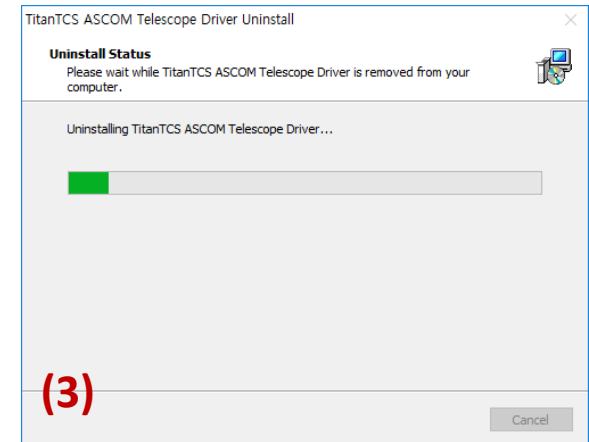
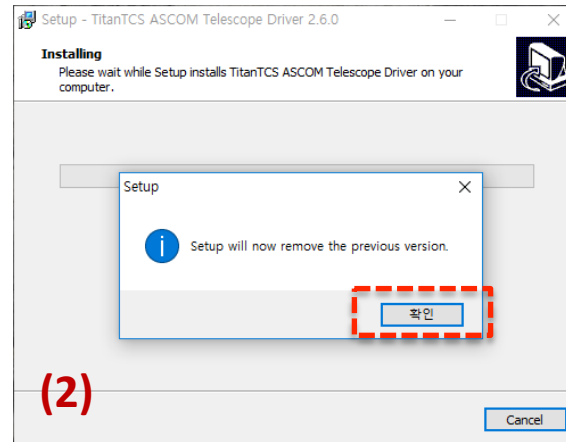
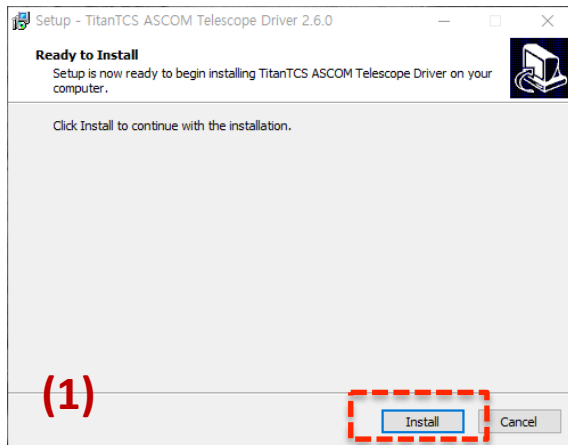
Download from internet & Install 1/2

1. Download and extract the Firmware Update program from the homepage.
https://drive.google.com/drive/folders/1_BjB_LxA97z9CrSWz_TQp3jLq_8yq58i
Filename : Titan-ASCOM-3.1.2.exe
2. Run the downloaded file to install the ASCOM driver for TitanTCS.
3. If the installation is successful, you will see "HOBYM TitanTCS" in the ASCOM Telescope Driver list.
4. If you are using Windows 10, the following screen may appear.
Select "More Info", [Run anyway] to continue the installation.



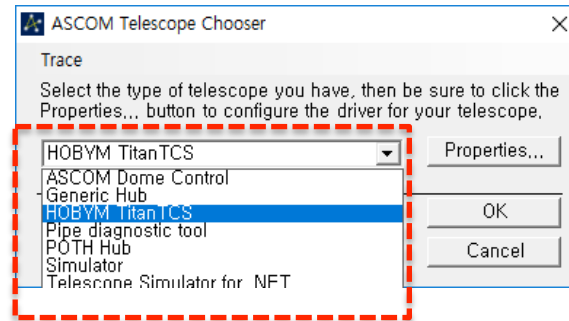
Download from internet & Install 2/2

Follow the steps below to continue the installation.

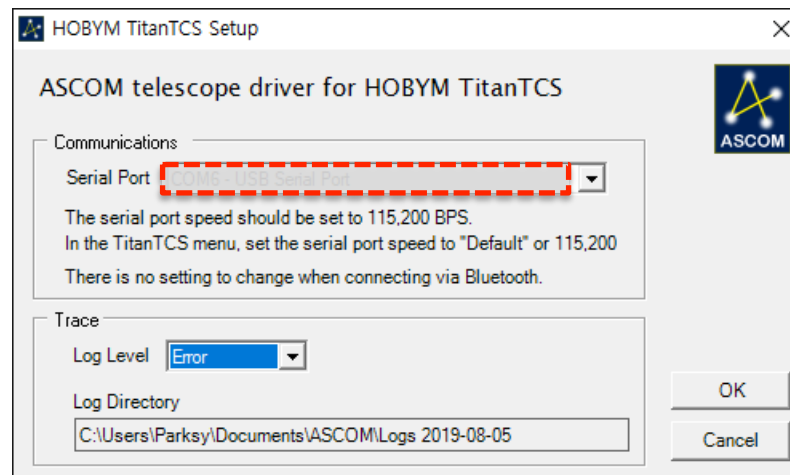


ASCOM telescope driver for TitanTCS

Select “HOBYM TitanTCS” for telescope driver



Select the serial port connected to TitanTCS.



ASCOM telescope driver for TitanTCS

Telescope control window

HOBYM TitanTCS - COM6

Telescope
R A DEC
16:19:26.1 16*42:04.8
☐ Sync ☐ Flip
N E Stop W S
Speed 50 % ☐ 1/10

Location
Degree,minute,second
Latitude 37 33 59 North
Longitude 126 59 59 East
Time zone 9 Hours
Read Set Location

PEC
☐ Enable
☐ Disable
PEC Training
Start Stop

Park Telescope
☒ Parking at current location
☐ Move to saved point, park
Park Unpark
Save current location as a parking spot

Date & Time
Local 2019 / 08 / 05 15 : 54 : 40
UTC 2019 / 08 / 05 06 : 54 : 40
Time zone 9 Hrs Y M D
Set Time

Camera
Focus
Shutter
Release
☐ F/S Swap
Disconnect

Sleep Timer
Name User 0
R A 12:16:51
H A 00:00:00
DEC 00:00:00
0 minutes Set
Idle 05:59:55 Sleep
F/W 3.0.0 2019/08/05

Connected : Serial A
Message Settings Refresh!

ASCOM telescope driver for TitanTCS

Telescope control

Telescope

RA DEC

16:19:26.1 16*42:04.8

☐ Sync ☐ Flip

N

E Stop W

S

Speed 50 % ☐ 1/10

RA / DEC current coordinates

Flip Status (Read only)

Unchecked :

The telescope is on the west side of the peer.
The telescope is facing east.

Checked :

The telescope is on the west side of the peer.
The telescope is facing east.

Mount slewing control

Speed of slewing speed

Sync current position & Sync Status

Click the button to sync to the current position.

ASCOM telescope driver for TitanTCS

Park control

The screenshot shows the 'Park Telescope' control panel. It includes two radio buttons for selecting the park location, two buttons for 'Park' and 'Unpark' commands, a button to 'Save current location as a parking spot', and a table for saving the current coordinates. Red arrows point from the interface elements to descriptive text on the right.

Park Telescope	
<input type="radio"/>	Parking at current location
<input checked="" type="radio"/>	Move to saved point, park
Park	Unpark
Save current location as a parking spot	
Name	ASCOM
R A	16:19:41
H A	-03:47:47
DEC	16:42:03

Location of park position

Park / Unpark Command

Save park position

Information of saved park position

ASCOM telescope driver for

Site information control

Location

Degree,minute,second

Latitude North

Longitude East

Time zone Hours

Location of current site
Set Location & time zone to TCS

Time zone
-12 ~ + 12

Read information from TCS

ASCOM telescope driver for TitanTCS

Date & time

Date & Time

Local	2018 / 11 / 24 23 : 59 : 41		
UTC	2018 / 11 / 24 14 : 59 : 41		
Time zone	9	Hrs	Y M D ▾

Set Time

☒ Refresh (RA, DEC, Time)

Time from Computer
(not TCS)

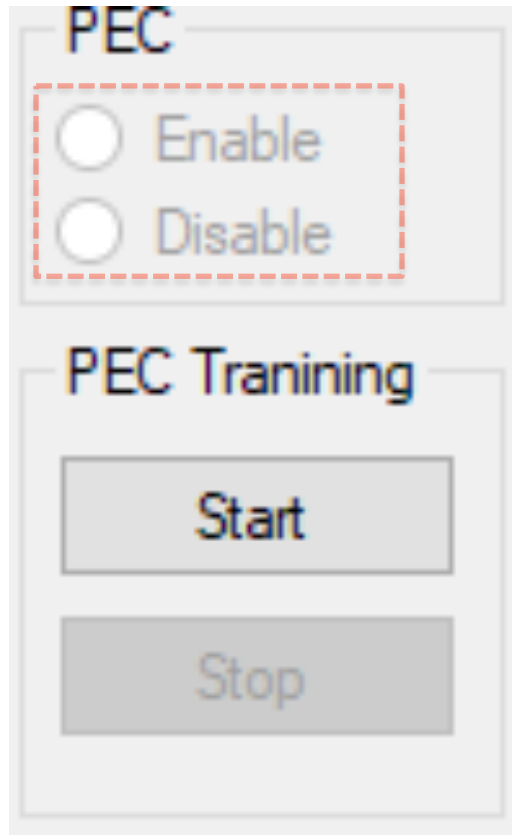
Display format of date

Set computer time & time zone to TCS

Refresh date & time from computer

ASCOM telescope driver for TitanTCS

PEC / PEC training



The image shows a software interface with two main sections. The top section is titled 'PEC' and contains two radio buttons: 'Enable' and 'Disable'. A red dashed rectangle highlights these two options. The bottom section is titled 'PEC Training' and contains two buttons: 'Start' and 'Stop'.

→ Enable /Disable PEC.
This button is grayed if PEC data is not valid.

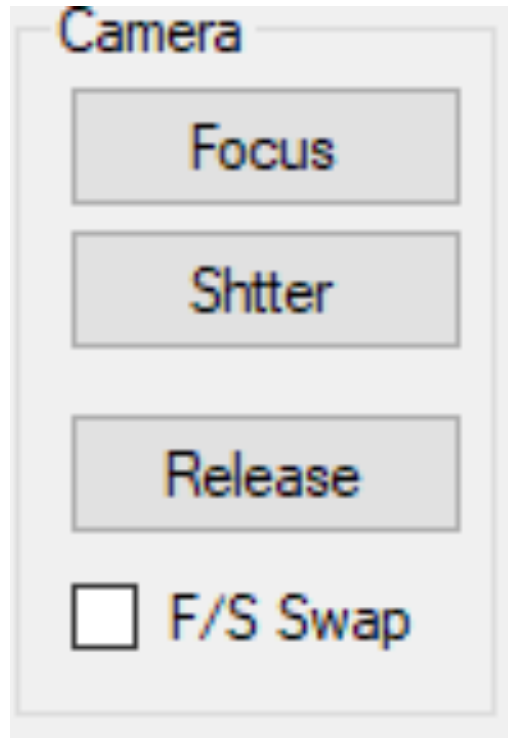
PEC training start

PEC training stop or cancel.

If the PEC learning progresses more than 100%,
the trained result will be saved when you stop.
If it is below 100%, the PEC information will be erased.

ASCOM telescope driver for TitanTCS

Camera release control window



Send focus signal to Camera

Send shutter signal to Camera

Erase shutter & focus signal

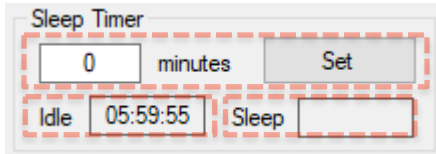
F/S Swap (Focus / Shutter Swap)

Depending on the release cable, the Focus / Shutter wiring may have changed.

Focus and Shutter signals are interchanged and output

ASCOM telescope driver for TitanTCS

Sleep & Idle timer window



The screenshot shows a window titled "Sleep Timer". It contains two rows of controls. The top row has a text input field with the value "0", the label "minutes", and a "Set" button. The bottom row has the label "Idle", a text input field with the value "05:59:55", the label "Sleep", and an empty text input field. Red dashed boxes highlight the top row and the bottom row. Red arrows point from these boxes to explanatory text on the right.

Set the sleep timer in minutes.

Displays the value of the current sleep timer.

Displays the value of the current idle timer.