

**PRINCE GEORGE ASTRONOMICAL SOCIETY
ROYAL ASTRONOMICAL SOCIETY OF CANADA
PRINCE GEORGE CENTRE**

**7365 Tedford Road
Prince George, BC
V2N 6S2**

Robotic Telescope Project (RTP) Minutes

October 27, 2021

Meeting Number: RTP002

Date: October 27, 2021

Location: Zoom Meeting

Chairperson: Malhar Kendurkar

Recording Secretary: Glen Harris

Committee Members present: Gil, Bob

Meeting Called to Order at 8:00 p.m.

1. Old Business

- Costing has been obtained for the following items.

1) Sky Conditions

A) <u>starlight-xpress-oculus-all-sky-camera</u>	\$1100
i) <u>12VDC 1A power supply</u>	\$14
ii) <u>USB extender</u>	\$75
iii) <u>Shipping</u>	\$63
v) Duty	\$100 estimate
vi) <u>Computer</u> for continuous internet link	\$329 CDN
a) <u>Upload control program</u>	\$100
B) <u>Wireless Weather Station</u>	\$725
i) <u>Weatherlink Live</u> software for upload	\$90
ii) <u>Shipping</u>	\$25
iii) Duty	\$100 estimate

2) Slot Control

a) Slot Control Program	Free from Dave Lane
i) Hardware requirements	Free from Dave Lane
b) AC Power connection interface	Undetermined

3) DSLR Camera

a) 4 shooter port focuser software	Undetermined, may not be required
b) Spacer	Undetermined
c) <u>Image acquisition software</u>	Free from Mike
d) <u>Publishing software</u>	Free from Mike
e) <u>Remote camera controller</u>	Free from Canon

4) Infrared Camera for remote telescope monitoring

a) <u>USB extender</u>	\$132 CDN inc GST
b) <u>Shipping</u>	\$75
	Combine with 1)A)iii)

5) Primary Mirror Cover and Control	
A) <u>Officina Stellare 600mm Primary Mirror Shutter</u>	\$3435 Back Order status
See New Business	
6) AC Device Control	
a) Static IP Address (Up to 5)	\$12/month CDN
b) 8 outlet <u>Digital Logger</u>	\$303 Free shipping
i) 2 4 outlet digital loggers	On site
c) <u>Uninterrupted Power Supply 1500VA 900W</u>	\$179 CDN Free shipping
	$\$6030 \text{ USD @ } 1.2277 = \7476 CDN
	<u>\$649</u>
Total Cost Estimate	\$8125

2. New Business

- Slot control drawings received from Dave Lane.

Actionable items:

- Telus fiber should be available in early November. **Glen**
- Copy Glen in emails with Dave Lane **Malhar**
- Update Alcyone dome control update via Teamviewer – Establish time.
 Dave Lane contact **Malhar**
- Mirror cover plans from Dave Lane **Malhar**
- Dome skirting repair work bee email to members. **Malhar**
- DSLR operation. **Bob, Malhar**
 - Spacer required. **Bob, Malhar**
 - DSLR focusing. **Bob, Malhar**
- Polar alignment. **Bob, Malhar**
- Accurate method of parking the telescope. **Bob, Malhar**
 - Sensors **Gil**
- Gaming fund request **Glen**

Outstanding items:

- If shutter plans are provided, build it ourselves. **Who?** The owl said.
- Automatic shutter closure due to weather conditions.

Canvass other remote sites for their solution. **Malhar**

- Shutter motor control.
 - Shutter motor electrical interface. **Bob, Glen**
 - Shutter limit switches. **Glen**
- Remote Telescope Access web page with logon requirement. **Glen & others**
- DSLR image acquisition and link to website. **Glen**
- All Sky weather camera link to website. **Glen**
- Weather station link to website. **Glen**
- Infrared camera link to website. **Glen**
- Telescope use scheduling utility. **Others**
- Flip Mirror operation. **Bob**

7. Date, Time, and Location of the next Robotic Telescope Project committee meeting

- The next committee meeting (RTP003) will be held on Friday November 5, 2021 starting at 7:00 pm using Zoom.

8. Adjournment: Meeting adjourned at 10:15 pm.