1. Here is a typical pan tilt wiring diagram:

100M 4-wire Pass-through Ethernet Cable

GND

RS485 Input for P&T Control

12V DC, 1.5A output

24V DC, 1.5A output

P/T Body

P/T Base

24V DC Input P/T Power

100M 4-wire Pass-through Ethernet Cable

GND

RS485 Input for P&T Control
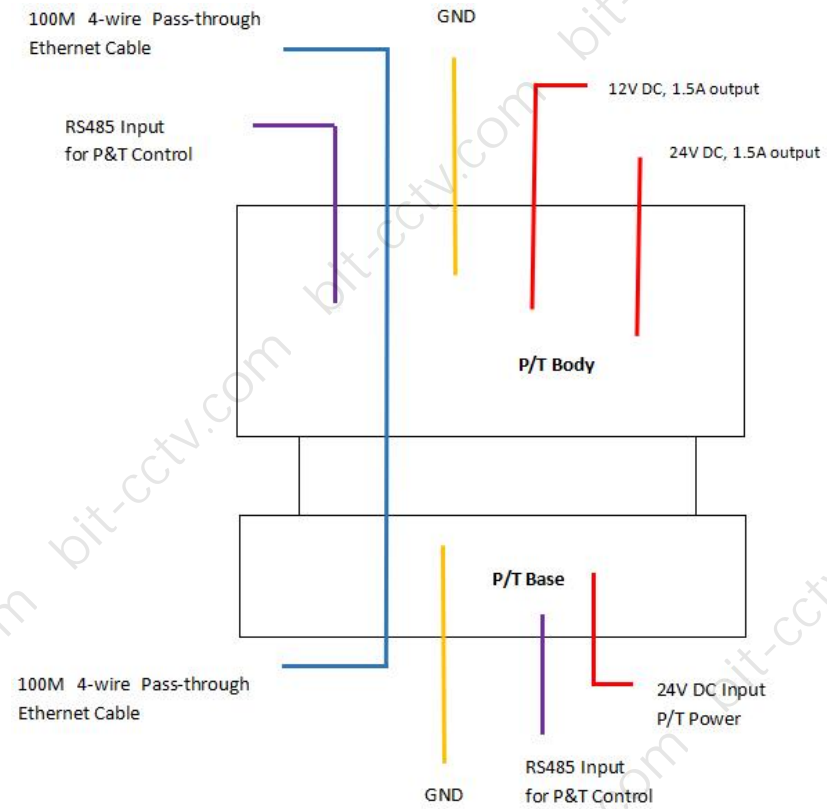
A few pictures for above wiring:

P&T Top Wiring

P&T Base Wiring

Pan Tilt
Top Wiring

RS485 P&T
Control
Input

Pass-through
Ethernet

Grouding

24VDC
Output

12VDC
Output

Pan Tilt
Base Wiring

RS485 P&T
Control
Input

Pass-through
Ethernet

Grounding

24VDC P&T
Input
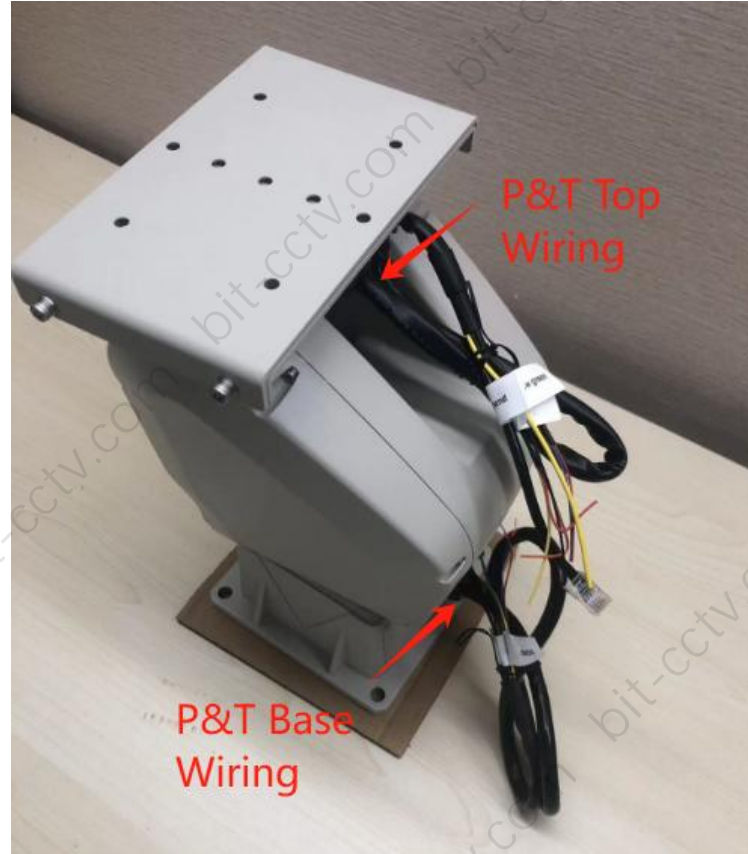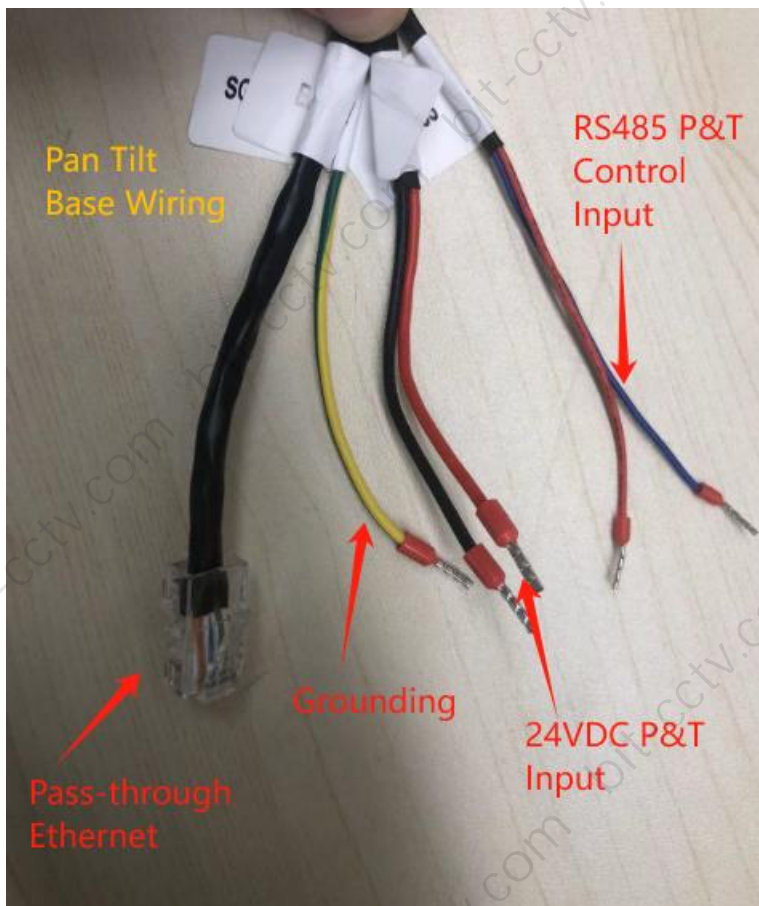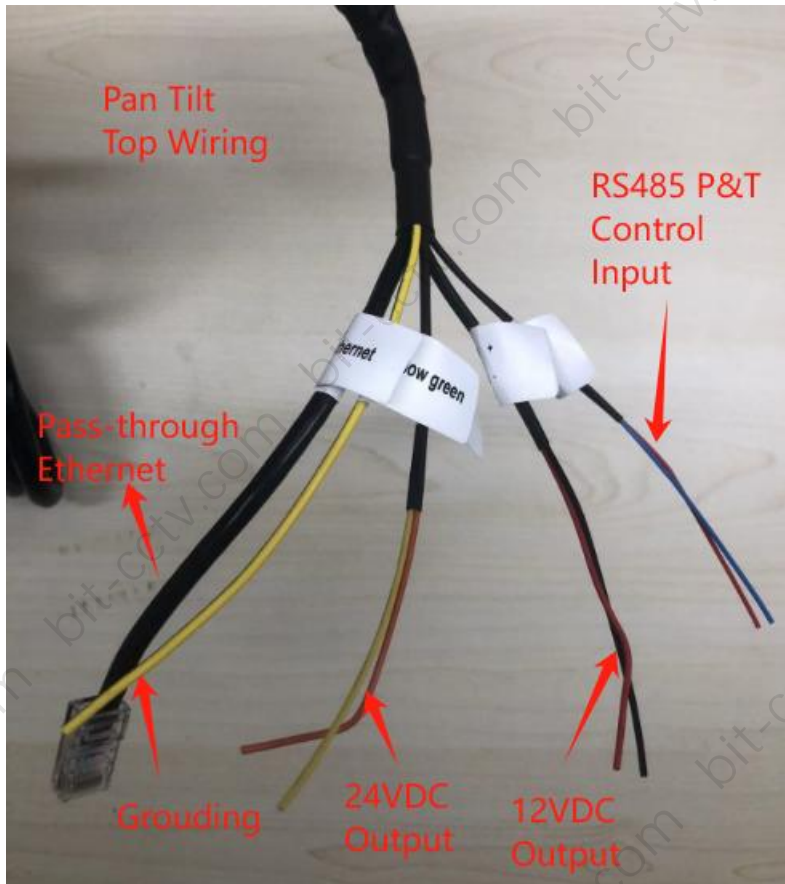
2. How to connect PTZ keyboard controller with pan tilt based on RS485 interface.

Connect RS485A and RS485B from the pan tilt base with the RS485A and RS485B interface at the keyboard for direct pan tilt control.


RS485 at P/T base
Connect with Keyboard

Red RS485A
Blue RS485B

RS485A

RS485B

RS485A+ RS485B

3. How to control pan tilt unit with a software from laptop, windows system:

RS485 at P/T base to connect with laptop for software control

Red RS485A

Blue RS485B

RS485

RS485A

RS485B

RS485A
RS485B

RS485 to USB Convertor

USB to Laptop

USB Input