

# INSTEIN ONSTEP ESP32 DRIVE

INSTEIN.EU

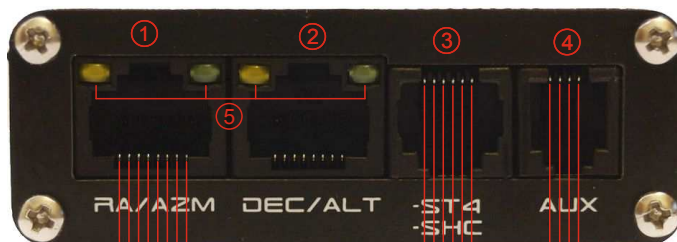
- ⚠ Never connect or disconnect motor cables while the drive is power on, this can damage stepper drivers and/or stepper motors.
- ⚠ Take care to pointing objects during lightday, the sun could cross your eyes through the telescope optics and damage them, including permanent blindness.
- ⚠ Always power on the drive about 10 minutes before expose the system to dew conditions --> perform a enable-disable tracking cycle to maintain drive and motors powered and prevent dew condensation.
- ⚠ Use only flat RJ45 cables from drive to motors, standard round RJ45 cables has crossing wires that can reduce the system performance and trigger a safe stop with some stepper drivers.
- ⚠ Axis limits may not be properly configured, take attention to slews and tracking, mobile parts could hit other ones.



## SIDE PANELS



- ① SMA Bluetooth connector for male antenna output.
- ② SMA WiFi connector for male antenna output.
- ③ Micro USB COM port / flashing port, CP2102.
- ④ Firmware flashing mode switch.
- ⑤ DC Power in, 5,5x2,1mm, 24VDC MAX.
- ⑥ Power switch.
- ⑦ Power status led.



- ① RA / AZM Stepper motor output, 8 pin RJ45.
- ② DEC / ALT Stepper motor output, 8 pin RJ45.
- ③ ST4 Port / Hand Control input, RJ11 6P6C.
- ④ Aux serial port I/O, RJ9 4P4C.
- ⑤ Motor output status leds:
  - OFF: Standby
  - Yellow: Motor energized.
  - Green: Very quick flashing: Axis is tracking.
  - Permanent: Axis is moving / guiding.

