

# Pronto4 Safety Direct

## Wireless E-stop and Handheld Controller

P/N: KA232-01

**D**esigned by Kairos Autonomi specifically for use with the Pronto4 system, the Safety Direct provides wireless E-stop and control capability for enhancing Pronto4 operations.



The Safety Direct Wireless E-stop and Handheld Controller

### SAFETY DIRECT AT A GLANCE

- A multi-level, wireless E-stop for optionally unmanned and autonomous vehicles
- Handheld transmitter controls independent Run, Pause and Stop modes
- Enables direct, local tele-operation control of the vehicle from a safe distance
- Provides visual, vibratory and audible feedback
- Delivers safety and operational status from the Pronto4
- Battery, comms and usage status of the Safety Direct
- Power on / off, Pause, E-stop, 4 axis control, battery charging, Ethernet, 802.15.4, 802.11, USB
- Hardened enclosure enables ruggedized use
- E-stop modes of Run, Pause and Stop
- Available in a variety of frequencies
- Carrying handle doubles as an antenna
- LCD backlit for night ops, full sunlight visibility
- Attaches and releases local control of all equipped Pronto4s in range
- Enhanced versions available, 9 DOF sensor, GPS, JAUS, etc.

### AVAILABLE FREQUENCIES

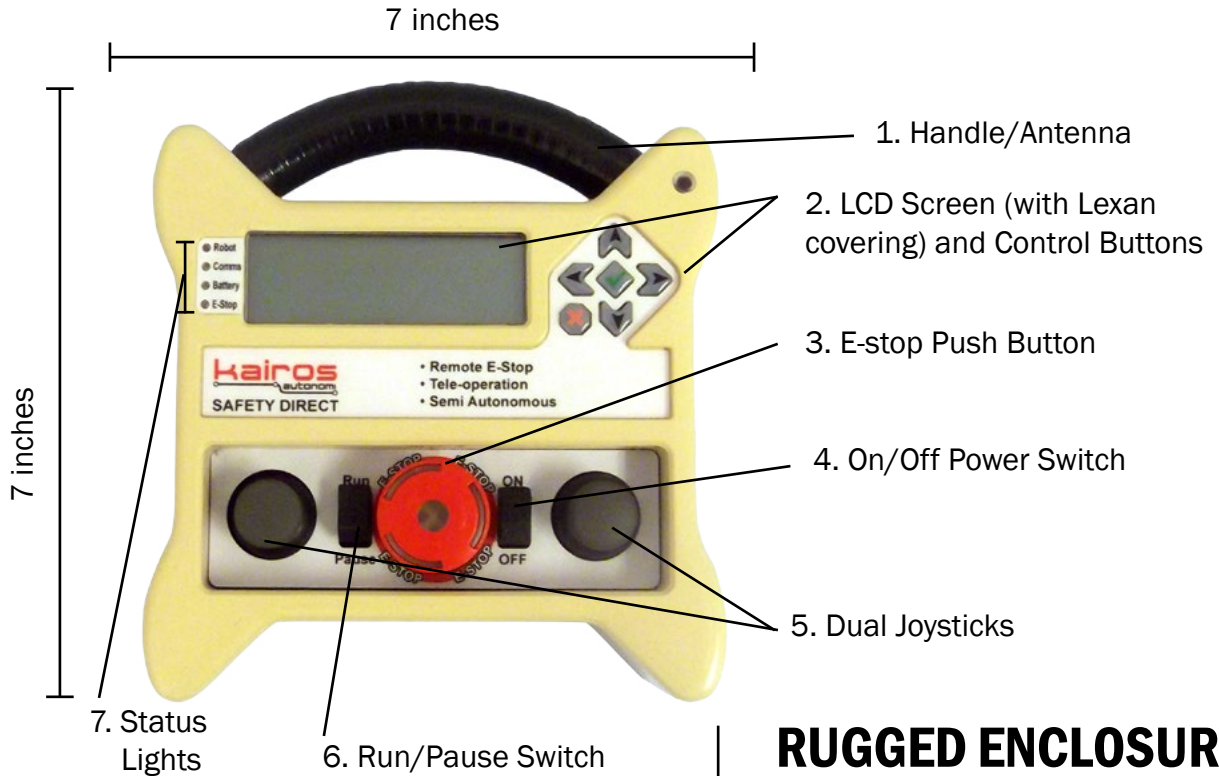
Frequency	Power	Range
866-869 MHz	250mW	1 mile LOS
902-928 MHz	1 W	2 miles LOS
2.4 GHz	200 mW	2 miles LOS

ISO 9001:2008 REGISTERED  
GSA SCHEDULE GS-07F-0226U

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# SAFETY DIRECT SPECIFICATIONS & FEATURES



## E-STOP MODES

The Safety Direct has three E-stop modes: a RUN mode, a PAUSE mode, and a DISABLE mode. Run and pause can be controlled at will, remotely causing the vehicle to start and stop operations. Disable is very similar to an E-stop actuation and requires that it be reset at the vehicle and NOT at the remote control location.

The vehicle responds to the E-stop outputs as follows:

- E-stop RUN mode enables the vehicle for movement.
- E-stop PAUSE mode brings the motion of the vehicle to a prompt stop, with brakes applied to hold the vehicle even on a slope. The vehicle should be ready to resume forward motion when the E-stop re-enters RUN mode.
- E-stop DISABLE mode brings the vehicle to a prompt stop and shuts down all propulsion systems while actively applying and maintaining the brakes.



## RUGGED ENCLOSURE



The Safety Direct enclosure can withstand being run over by large vehicles. Pictured above, the enclosure is underneath a commercial Hummer (6500 lbs.).

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