

PG-xH14-DIS (PG-9H14-DIS and PG-2H14-DIS Pistol Grip Remotes)

Features

- ✓ License-Free Operation
- ✓ PG-9H14-DIS 900 MHz@10 mW RF Power
- ✓ PG-2H14-DIS 2.4G Hz@100 mW RF Power
- ✓ Direct Sequence Spread Spectrum Technology (DSSS)
- ✓ Comfortable Weatherproof Pistol Grip Design
- ✓ Four Character LED Display ✓ Four Status/Diagnostic LEDs
- ✓ 4 "AA" Cell Battery Power ✓ Dedicated M-Stop
- ✓ Glove-Accessible Switches ✓ Four Handle-Embedded Magnets
- ✓ Umbilical Connection Option ✓ J1939 CAN Capable



The SmaRT™ PG-xH14-DIS pistol grip remotes are designed for traditional and non-traditional mobile applications. Capable of activating digital and trigger-control-pulse-width-modulated proportional outputs of SmaRT base units, the PG-xH14-DIS provides single-handed operation in a comfortable layout. Using Direct Sequence Spread Spectrum (DSSS) wireless technology at 900 MHz or 2.4 GHz, the SmaRT pistol grip remote provides a robust link with SmaRT base units in congested radio environments. The four character LED display provides positive feedback of base unit activity and aids in PWM use and calibration. SmaRT remotes feature seamless association to SmaRT base units without the need to open unit enclosures. The umbilical option allows a PG-xH14-DIS remote to directly connect to base units.

The rugged weatherproof Pistol Grip enclosure allows the unit to operate worry free in harsh weather conditions. Four powerful handle-embedded magnets allow the remote to be securely attached to ferrous surfaces to prevent misplacing the unit while not in use or to provide a stable working platform when desired.

Specifications

Power

V_{in}	+3.0 VDC nominal
Batteries	Four AA Alkaline
Battery Life	≅175 to 200 hours
Low V Power Down	1.9 VDC
Auto-Power Down	10 minutes of inactivity (default)

Radio

Frequency	906–924 MHz; 2405–2480 MHz
RF Power	10 mW @ 900 MHz; 100 mW @ 2 GHz
License	License Free
Modulation	DSSS
Antenna	Internal

Environment

Operating Temp	–20° C to 55° C (–4° F to 131° F)
Storage Temp	–40° C to 55° C (–40° F to 131° F)
Humidity	0 to 100%

Control Functions

Switches	Six toggles, one pushbutton, up to 12 Functions One trigger proportional controller One oversized stop
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LED Indicators and Display

TX (Green)

Blinking	Transmitting messages
Steady	Switch active

RX (Amber)

Blinking	Receiving messages
Steady	Output of interest active
8 Blinks	One for each channel scan before association is made (1.6 sec. total)

Error (Red)

Steady	Error detected; switch conflict
Flashing	Switch conflict, switch held by user when turned on

Display

Four character

Battery (Amber)

Flashing	Low battery indication
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Enclosure

Dimensions	mm: 230.59 x 133.93 x 146.92 inch: 9.08 x 5.27 x 5.78
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Weight	1.22 kg (2.7 lbs)
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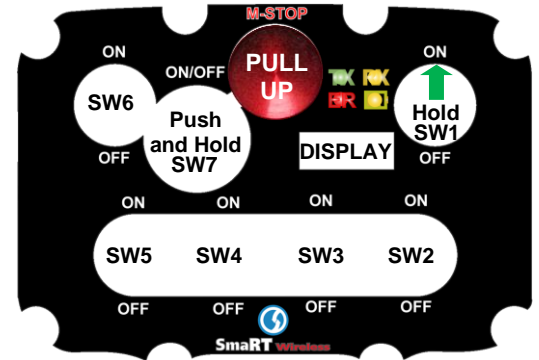
Durability	High Impact Polymer
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Associate Mode

All Cervis systems are associated (communications are pre-set) at the factory. However, a SmaRT PG-xH14-DIS can be associated to a SmaRT base unit in the field when desired.

To associate there must be a clear line-of-sight between the handheld and the base unit, and both units must be OFF (powered down). Do not operate the trigger while associating.

1. Stand near to the base unit with the pistol-grip remote OFF and power removed from the base unit (disconnect the source power OFF).
2. Release the STOP button on the handheld by pulling up.
3. Push and hold the SW7 (pushbutton) and then immediately push and hold SW1 UP. All four LEDs light solid.
4. Observe the LEDs. When TX begins to blink, power up the base unit (reconnect the source power) while continuing to hold SW1 and the SW7. When all four LEDs light solid, release SW1 and the SW7.



A successful association is indicated when LEDs TX and RX are rapidly blinking indicating the handheld and base unit are transmitting and receiving messages.

PG-xH14-DIS Family

All PG-xH14-DIS handheld remotes have an LED 4-character display, one proportional control trigger, six 3-position toggle switches, a pushbutton switch, a dedicated M-Stop, four handle-embedded magnets, and use four “AA” cell batteries for power. The following table defines various features applicable to the models listed.

Model Name	Freq.	RF Power	Umbilical	Display
PG-2H14-DIS	2.4 GHz	100 mW	No	Yes
PG-2H14-DIS-UMB	2.4 GHz	100 mW	Yes	Yes
<i>Custom Configurations by Request</i>				