

LIFT

**Cableless control system
for industrial lifting applications**



LIFT handhelds

The LIFT series brings AUTEC's well know reliability to a compact and advantageous form factor that is the perfect choice for most types of overhead cranes, jibs, hoists, and winches. Operators will appreciate the efficiency and ergonomics of the LIFT, and the new "MY LIFT AUTEC" App will help reduce installation and maintenance times, and maximize machine availability.

Models and battery options

The LIFT is available with 4, 6, or 8 dual-depression buttons (the T4/T6/T8 respectively). In each case, the lowest button on the right side is dedicated to the START function, and may optionally be used to sound the machine horn. All models have 4 x LEDs which can display the currently-selected hoist(s) in dual-hoist cranes, or other machine information. Models are available with "consumer" single-use or "professional" rechargeable batteries:

- the T4C/T6C/T8C models utilize "consumer" standard internal batteries (3 x AAA);
- the T4B/T6B/T8B models are supplied with "professional" 2 x swappable Li-Ion batteries and a battery charger.



Main features

- Latest Bluetooth® technology
- License free operation worldwide
- GSS/EMS/ATS performance up to PL d / SIL2; cat. 3 (according to EN ISO 13849-1 and EN IEC 62745:2017)
- Access is restricted to authorized users using either a PIN code or a contactless T-Key
- Multi-function commands (latching, momentary, switch "1, 1+2, 2","1/2")
- Work area 75 meters (246 ft)
- Protection degree IP65/Type 4
- Display of machine status with 4 LEDs (Data Feedback)
- 3x1.5 V AAA "consumer" batteries (~90 h autonomy) or "professional" external Li-Ion battery (~40 h autonomy, rechargeable)
- Customizable labeling: whole panel or pushbuttons symbols kit

Radio communication

Communication between the machine and the cableless control system is over Bluetooth®, and proprietary AUTECH technology is used to further secure the connection against intrusion. Each LIFT system is uniquely coded to ensure only the matching portable station can be used to control the machine, as required by Machinery Directive 2006/42/EC and EN IEC 60204-1. The LIFT cableless control system operates on the 2.4 GHz band, which is generally available worldwide and which supports a large number of devices operating simultaneously in an area. The Frequency-Hopping Spread Spectrum (FHSS) techniques used by the LIFT will automatically select the cleanest radio channels from those available, and continually and rapidly hop between them in a pseudo-random pattern that differs for each system. The resulting communication link is designed to resist against external interference, and also creates negligible interference to other devices.



“MY LIFT AUTECH” configuration software

The LIFT system can be configured by authorized OEMs or users with a smartphone App called “MY LIFT AUTECH”.

Among the configurable features are:

- pairing of a replacement portable station (in the event of loss or damage of the existing unit);
- setting of the PIN code used for access control;
- setting of the auto-shutdown time (when the portable station is unused for a period of time).

“MY LIFT AUTECH” is free, available for both Android and iOS, and requires online registration.

GSS function

General Safe Stop and AuTomatic Stop are essential parts of the system. GSS and ATS are safety functions compliant to EN IEC 62745:2017, the new international standard for cableless control systems. An operator using a LIFT handheld can choose the best location from which to do so, while always having the GSS available to take the machine to a safe state if the STOP mushroom is pressed. All LIFT models have a dual-redundant and monitored GSS circuit and robust STOP mushroom with positive breaking contacts (compliant to IEC 60947-5-5). The connection between the portable station and base station is maintained and continuously monitored by the ATS function.

International approvals

LIFT series reached:

- the approvals in Europe, USA, Canada, Australia and China.
- the approval by Bluetooth SIG (Special Interest Group), the standards organization that oversees the development of Bluetooth standards and the licensing of the Bluetooth technologies and trademarks to manufacturers.
- the certification by Underwriters Laboratories Inc. (cULus listed), which assessed its suitability according to US and Canadian safety regulations.

T-Key

As an alternative to the PIN code, use of the LIFT handheld can be restricted to authorized operators using a contactless hardware key in the bottom of the portable station (the T-Key). The cableless control system is disabled if the T-Key is removed.

Base station ACRH11

The highly compact base station operates with a wide variety of input voltages, and has 11 on-board power relays, and provision for one expansion board that can provide additional outputs or other features. The semi-transparent cover protects the integrated high-intensity flashing lamp which operates when the remote control is in use.

The main strenght points of this base station are IP65/Type 4 protection degree, the expansion board, the external antenna and the buzzer options available.

Power supply

24-230 VAC

Rated load of GSS contacts

5 A (250 VAC)

Commands rated current

5 A (250 VAC)

Connecting interfaces

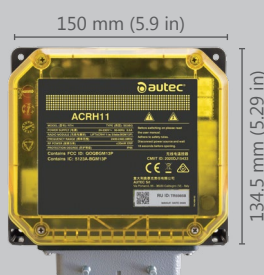
cable gland / 16 or 24 pin plug

Max dimensions

150x134.5x60 mm (5.9x5.29x2.36 in)

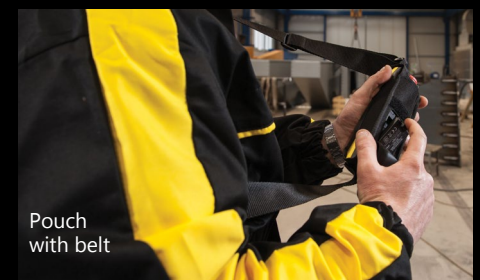
Weight

1 kg (2.2 lb)



Connection with cable gland or 16 or 24 pin plug

Standard accessories



Pouch with belt

Battery charger (for Li-Ion battery version only)






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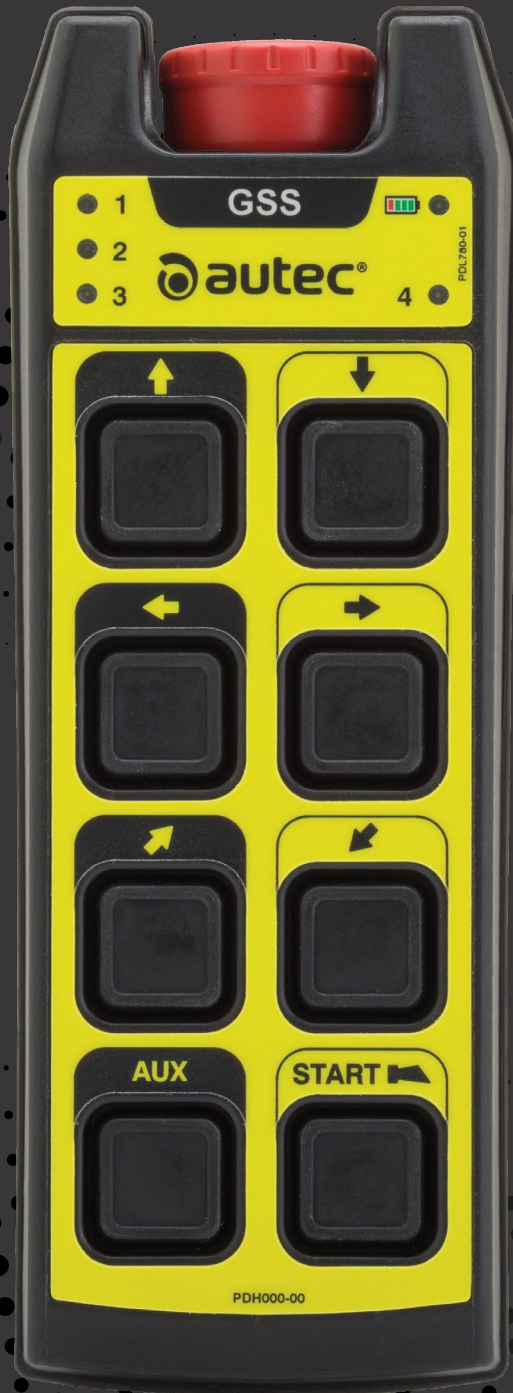
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 **Made in Italy**

Cert. UNI EN ISO 9001:2015 No. 50 100 2877 Design, manufacture and service of remote control systems for safety industrial application.

This documentation includes general descriptions and/or technical features of the Autec products within. This documentation is not intended to be used as a substitute for, nor is it sufficient for, assessing whether these products are suitable for the user's specific applications. The owner, facility-operator, user and system integrator are responsible for carrying out correct and complete fitness and risk analysis to evaluate and test the specific products and systems with regard to the particular application or use thereof. Neither Autec nor any of its affiliates or subsidiaries shall be responsible or liable for the misuse of the information contained herein.



LIFT

Cableless control system for mobile applications



LIFT handhelds

The LIFT series brings AUTEC's well know reliability to a compact and advantageous form factor that is the perfect choice for the control of mobile applications such as tippers, mobile vehicles and trolleys. Operators will appreciate the efficiency and ergonomics of the LIFT, and the new "MY LIFT AUTEC" App will help reduce installation and maintenance times, and maximize machine availability.

Models and battery options

The LIFT is available with 4, 6, or 8 dual-depression buttons (the T4/T6/T8 respectively). In each case, the lowest button on the right side is dedicated to the START function, and may optionally be used to sound the machine horn. All models have 4 x LEDs which can display the machine information.

Models are available with "consumer" single-use or "professional" rechargeable batteries:

- the T4C/T6C/T8C models utilize "consumer" standard internal batteries (3 x AAA);
- the T4B/T6B/T8B models are supplied with "professional" 2 x swappable Li-Ion batteries and a battery charger.



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- Work area 75 meters (246 ft)
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Base station DCRV12

This highly compact base station operates with 12-24 VDC input voltage, has 12 outputs (4 relays, 8 MOSFET) and an optional expansion board that can provide additional outputs or other features.

The main strenght points of this base station are IP65/Type 4 protection degree, the expansion board and the external antenna options available.

Power supply

12-24 VDC

Rated load of GSS contacts

5 A (30 VDC)

Commands/MOSFET rated current

5 A (30 VDC)

Connecting interfaces

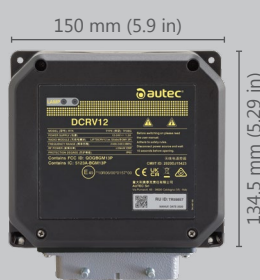
cable gland / 16 or 24 pin plug

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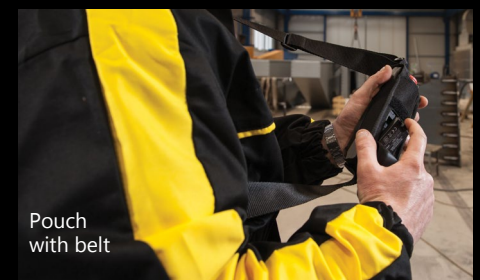
Weight

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Standard accessories



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Battery charger (for Li-Ion battery version only)






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