

CRE-2110 TECHNICAL SPECIFICATIONS

MODEL NUMBER: CRE-2110**RATED LOAD:** 400 lb (181 kg) maximum**ETL-Intertek C-US Listed:** Control Number: 4004689**PERFORMANCE STANDARDS:**

ANSI/ASME: A18.1-1999 (Sec. 4 or 7) Safety Standards for Platform Lifts and Stairway Chairlifts

ANSI/ASME: A18.1-2003 (Sec. 4 or 7) Safety Standards for Platform Lifts and Stairway Chairlifts

ANSI/ASME: A18.1-2005 (Sec. 4 or 7) Safety Standards for Platform Lifts and Stairway Chairlifts

ANSI/ASME: A18.1-2008 (Sec. 4 or 7) Safety Standards for Platform Lifts and Stairway Chairlifts

ANSI/ASME: A18.1-2011 (Sec. 4 or 7) Safety Standards for Platform Lifts and Stairway Chairlifts

ANSI/ASME: A18.1-2014 (Sec. 4 or 7) Safety Standards for Platform Lifts and Stairway Chairlifts

ANSI/ASME: CSA B44.1/ASME-A17.5-2019 Elevator and Escalator Electrical Equipment

MODEL NUMBER: CRE-2110C, CRE-2110OS**RATED LOAD:** 400 lb (181 kg) maximum**ETL-Intertek C-US Listed:** Control Number: 4004689**PERFORMANCE STANDARDS:**

ANSI/ASME: A18.1-1999 (Sec. 4 or 7) Safety Standards for Platform Lifts and Stairway Chairlifts

ANSI/ASME: A18.1-2003 (Sec. 4 or 7) Safety Standards for Platform Lifts and Stairway Chairlifts

ANSI/ASME: A18.1-2005 (Sec. 4 or 7) Safety Standards for Platform Lifts and Stairway Chairlifts

ANSI/ASME: A18.1-2008 (Sec. 4 or 7) Safety Standards for Platform Lifts and Stairway Chairlifts

ANSI/ASME: A18.1-2011 (Sec. 4 or 7) Safety Standards for Platform Lifts and Stairway Chairlifts

ANSI/ASME: A18.1-2014 (Sec. 4 or 7) Safety Standards for Platform Lifts and Stairway Chairlifts

ANSI/ASME: A18.1-2017 (Sec. 4 or 7) Safety Standards for Platform Lifts and Stairway Chairlifts

ANSI/ASME: A18.1-2020 (Sec. 4 or 7) Safety Standards for Platform Lifts and Stairway Chairlifts

ANSI/ASME: CSA B44.1/ASME-A17.5-2019 Elevator and Escalator Electrical Equipment

MODEL NUMBER: CRE-2110CAN**RATED LOAD:** 400 lb (181 kg) maximum**ETL-Intertek C-US Listed:** Control Number: 104663929**PERFORMANCE STANDARDS:**

CSA B355: 2019 Platform lifts and stair lifts for barrier-free access

ANSI/ASME: CSA B44.1/ASME-A17.5-2019 Elevator and Escalator Electrical Equipment

MODEL NUMBER: CRE-2110G**RATED LOAD:** 420 lb (190 kg) maximum**APPLICATIONS:** straight staircases, straight with top and bottom overruns and straight with intermediate landing; variety of flat, spiral, and custom staircase configurations on both inside and outside of staircase**NUMBER OF PASSENGERS:** 1**POWER SOURCE:** 24VDC comprised of 2 each 7AH 12 volt sealed maintenance-free lead acid batteries; On/Off power switch to prevent battery drain over lengthy storage periods**CHARGER:** 105-230VAC/1.5A, 24VDC/2A continuous monitoring, full primary cut off**DRIVE:** 24VDC direct-drive gear-motor, 2 pole rated .68 HP, 58:1 right-angle self-locking worm gear box, 41.5 RPM on the output shaft of the gear box**FINAL DRIVE:** integrated 8dp gear rack on rail with a spur gear on the gearbox output shaft**MOTOR CONTROLLER:** custom 24VDC PWM controller with acceleration ramping**BRAKING:** dynamic motor braking through motor controller, self-locking worm gear box, electro-mechanical motor brake, and overspeed brake (CRE-2110C, CRE-2110G, CRE-2110OS, CRE-2110CAN).

CALL/SEND CONTROL:

1. 2.4GHz RF wireless control with interference suppression; momentary switching requiring a user to continuously hold button to control unit (CRE-2110C, CRE-2110G, CRE-2110CAN)
2. Infrared wireless control that utilizes a 900MHz RF wireless control intermediary; momentary switching requiring a user to continuously hold button to control unit (CRE-2110, CRE-2110OS)

ARMREST CONTROL: 3-position momentary armrest switch requiring user to continuously hold to control unit; switch mounted in armrest; optional keyed control

SUPPORTS: clamps anchored to stair tread; normal rail position is 2 1/2" (63.5 mm) above step nose; number of clamps dependent on length of rail

ANGLE: from 0° to 45° standard, custom to 50°

SPEED: maximum top speed is 25 ft/min (0.13 m/s); actual speed varies depending on rider weight and angle of incline

LENGTH OF TRACK: custom lengths to 60 feet (18 m) Maximum. (Application specific parameters apply for other lengths)

TRACK CONSTRUCTION: 5/16" (8 mm) mild steel welded shape, covered gear rack welded to rail; joint with welded side clamp blocks at each rail joint

TRACK LOCATION: track designed to contour of stairway and can fit to within 7" - 8" (178–203 mm) of wall or obstruction.

TRACK EXTENSION: standard track extension is approximately 6.5" (165 mm) past top step nose and 18" - 20" (457–508 mm) past bottom step nose

FOOTREST: folding footrest with safety sensor panel and handle actuator

SEAT: padded, folding and swivel with stops at 45° (bottom), 0° (forward), 60° (top), and 90° (top); multiple-position seat height adjustment

ARMRESTS: fixed to seat frame; armrest may be individually rotated toward seat back for smaller profile when not in use and to facilitate transfers; armrests have 4" (102 mm) width adjustment

SAFETY EQUIPMENT:

1. seat swivel switch allowing operation only when chair is in center position
2. carriage and footrest safety switches
3. retractable seat positioning belt
4. charging light (green) on carriage; charging light (amber) at each end of rail
5. 30A manual reset breaker on motor control circuit
6. 5A fuse on control circuits
7. final end stop bumper at each end of rail
8. final limit switch
9. full diagnostic user interface PC board
10. Emergency manual carriage drive feature (CRE-2110G, CRE-2110CAN)
11. E-Stop switch and Alarm. (CRE-2110CAN ONLY)
12. Barrier armrest switch (CRE-2110G, CRE-2110CAN)

BATTERY CAPACITY/POWER OUTAGE:

cycles: variable depending on angle, length of run, ambient temperature and rider weight batteries: between 28 and 36 hours if power is disconnected

WEIGHT OF UNIT:

100 lb (45 kg) carriage and drive, 50 lb (23 kg) seat and footrest, and 17.5 lb/ft (26 kg/m) rail weight

TESTING PERFORMED:

1. battery charger UL tested and listed to standard UL1012
2. self-locking gear box statically tested with 3200 lb (1451 kg) (8 times rated load) on a 45° rail for 5 minutes with no carriage movement; test was performed at manufacturer's location.
3. repetitive tests performed to determine power outage cycling
4. electrical discharge to ground testing
5. overspeed brake freefall locking distance (CRE-2110C, CRE-2110OS, CRE-2110CAN)



OPTIONS:

1. keyed call/send controls
2. keyed controls on chair arm
3. commercial package with overspeed safety brake and keyed controls on chair arm (CRE-2110C, CRE-2110CAN)
4. power swivel seat at top landing (up to 90° of rotation)
5. power folding footrest
6. mid park and charge
7. larger seat
8. larger footrest (manual and powered)
9. overspeed safety brake (CRE-2110C, CRE-2110G, CRE-2110OS, CRE-2110CAN)