



CRE-2110 Elite Curve Straight Rail Stairlift **Technical Specifications**

Rev 3: 07-30-2013
ILS-00905

MODEL NUMBER: CRE-2110 and CRE-2110C
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
CSA B613 Private Residence Lifts
ANSI/ASME: CSA B44.1/ASME-A17.5 Elevator and Escalator Electrical Equipment

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

RATED LOAD: 400 lb (181 kg) maximum

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: 120VAC/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, and electro-mechanical motor brake

CALL/SEND CONTROL: 2.4GHz RF wireless control with interference suppression; momentary switching requiring a user to continuously hold button to control unit

ARMREST CONTROL: 3-position momentary rocker switch requiring user to continuously hold rocker switch to control unit; switch mounted under 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 the length of rail

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

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

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LENGTH OF TRACK: custom lengths to 50' (15 m)

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

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 16 lb (7.25 kg) per foot (meter) 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-degree 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

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
- 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)

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