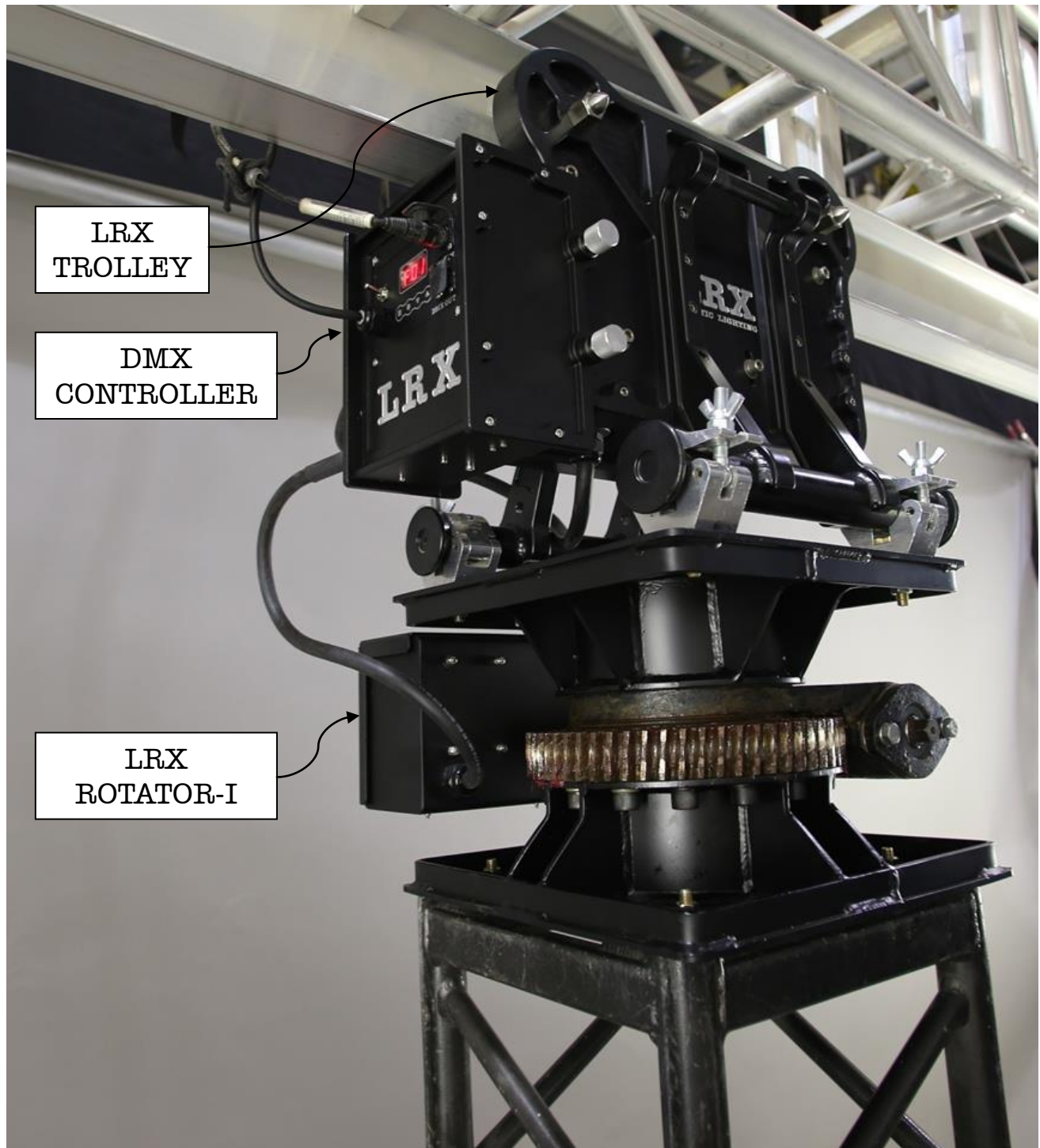


LRX™ Rotator



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SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

LRX™ Rotator

2



WARNING

READ EQUIPMENT MANUFACTURES
MANUAL BEFORE USING THIS PRODUCT

SAFETY INSTRUCTIONS

- User must be authorized, qualified and certified in jurisdiction of use.
- It is the user's responsibility and obligation to determine and comply with all applicable laws and regulations.
- Do not operate if unit appears damaged.
- Always use approved safety cables secured to a point capable of supporting the total weight of the load.
- Rotator weight: 225 pounds
- Maximum load capacity is 2,000 pounds, evenly distributed.
- Load limit is not to be exceeded.
- Prior to operation a daily inspection and log are required.
- In case of malfunction disconnect all power supplies, discontinue use, notify supplier.
- Area under fixture must be cordoned off at all times and kept clear of all personnel.
- Do not connect or disconnect under load.
- Ensure power supply is off when connecting to DMX controller.
- Never operate with any covers removed.
- No personal within range of motion of the rotator during operation.
- Observe pinch points.
- Safe electrical and working practices must be observed.
- If using a power trolley with this fixture please refer to "LRX Power Trolley" manual. The installation, operation and servicing of rotator to be carried out by only authorized and qualified personnel certified in jurisdiction of use.
- No user serviceable parts.
- Unsure about anything or if you have questions, stop and contact LRX LLC service representative before use.
- For the latest version of this manual please visit "lrx-lighting.com"

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2

LRX™ Rotator



DANGER

- Dangerous voltages are present when power is supplied to the unit.
- Disconnect all power supplies before installation or removal of unit.
- Ensure all power supplies are off when connecting or disconnecting any cabling.
- Power must be removed when not in use and when data signal is removed.
- Ensure unit meets all local codes prior to operation.
- Safety power lockout procedures must be followed.
- Safe electrical and working practices must be observed.



WARNING

- This unit has rotating parts with pinch points.
- Unit may move without warning.
- No personal within range of motion
- Never operate with any covers missing.

ROTATOR ADDRESSING

Addressing is performed at the keypad ON the DMX controller.

The fixture can be programmed to operate in DMX mode or FIXTURE mode (for use with the hand controller). Because each LRX fixture requires sixteen DMX channels for operation, FIXTURE mode is merely a convenient way of skipping DMX channels in 16 channel increments, beginning with DMX channel #001. Additionally, fixture mode provides power to a connected hand controller, which is also designed to work in 16 channel increments.

DMX Connector pin out: (also see important note below)

- Pin 1 = ground
- Pin 2 = Data negative
- Pin 3 = Data positive
- Pin 4 = 12VDC negative
- Pin 5 = 12 VDC positive

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LRX™ Rotator



When the LRX rotator is in FIXTURE mode, pins 4 & 5 on the DMX IN connector become energized to 12VDC to supply power to the hand controller. No power is supplied to pins 4 & 5 when in DMX mode. Ensure that rotator is in the correct mode prior to connecting DMX lines. Always connect the hand controller to the unit with the power off. Damage could result if attempting to connect the hand controller to the LRX rotator while the power is on.

The mode (square icon) on the left is used to toggle between DMX mode and FIXTURE mode. FIXTURE mode is designated by a capital 'F' in the left-most digit, with the remaining two digits indicating the fixture number. E.g. F01=fixture#1, etc. DMX mode is shown as a three digit number from 001 to 512. Once the mode is selected the fixture number or DMX address can be increased or decreased using the up/down arrows on right side of the switch assembly. When the correct FIXTURE/address has been selected, the store (round icon) button second from the left is pressed and held (until the display stops flashing) to store that address. *It is important to note that the LRX fixture will not begin responding to a newly selected FIXTURE/DMX address until it has been stored by pressing and holding the store (round icon) button.* If the display is flashing, this is a warning that the displayed FIXTURE/DMX address does not match the address that fixture is currently responding to. Saving the displayed address tells the fixture to begin listening and responding to the new address. If the address is not stored within five seconds it will return to the previous set

The LRX fixture always writes the last saved address and mode to non-volatile memory, such that in the event of a power interruption, the fixture will power up with the mode and address it was using before the power interrupt.

Pressing and holding the mode button will provide access to the hour meter. Once in hour meter mode press the up icon to display bulb hours, indicated as a scrolling number. It will show as a blank digit followed by three digits then a decimal place and two more digits (i.e. _120.59). The bulb hours can be reset by pressing and holding the store button until the meter zeros, about five seconds.

To display fixture hours, press the down icon. Fixture hours will be displayed as a scrolling number with an "F" prefix. This can't be reset by the user.

LRX™ Rotator

DMX CHANNEL ALLOCATION

When using the LRX with a lighting console or other device that offers discrete control over the DMX channels, they are used by the fixture as follows:

Where N= base channel of fixture. [LRX DMX address shown on display]:

N + (0-9)	= motor control (depends on MODE)
N+10	= GEL fan ON/OFF (OFF<127<=ON)
N+11	= lamp control (unimplemented)
N+12	= motor control MODE: N+12<127 = BUMP MODE N+12>=127 = FADER MODE
N+13	= reserved (future use)
N+14	= reserved (future use)
N+15	= reserved (future use)

If (MODE = BUMP): (n+12<128)

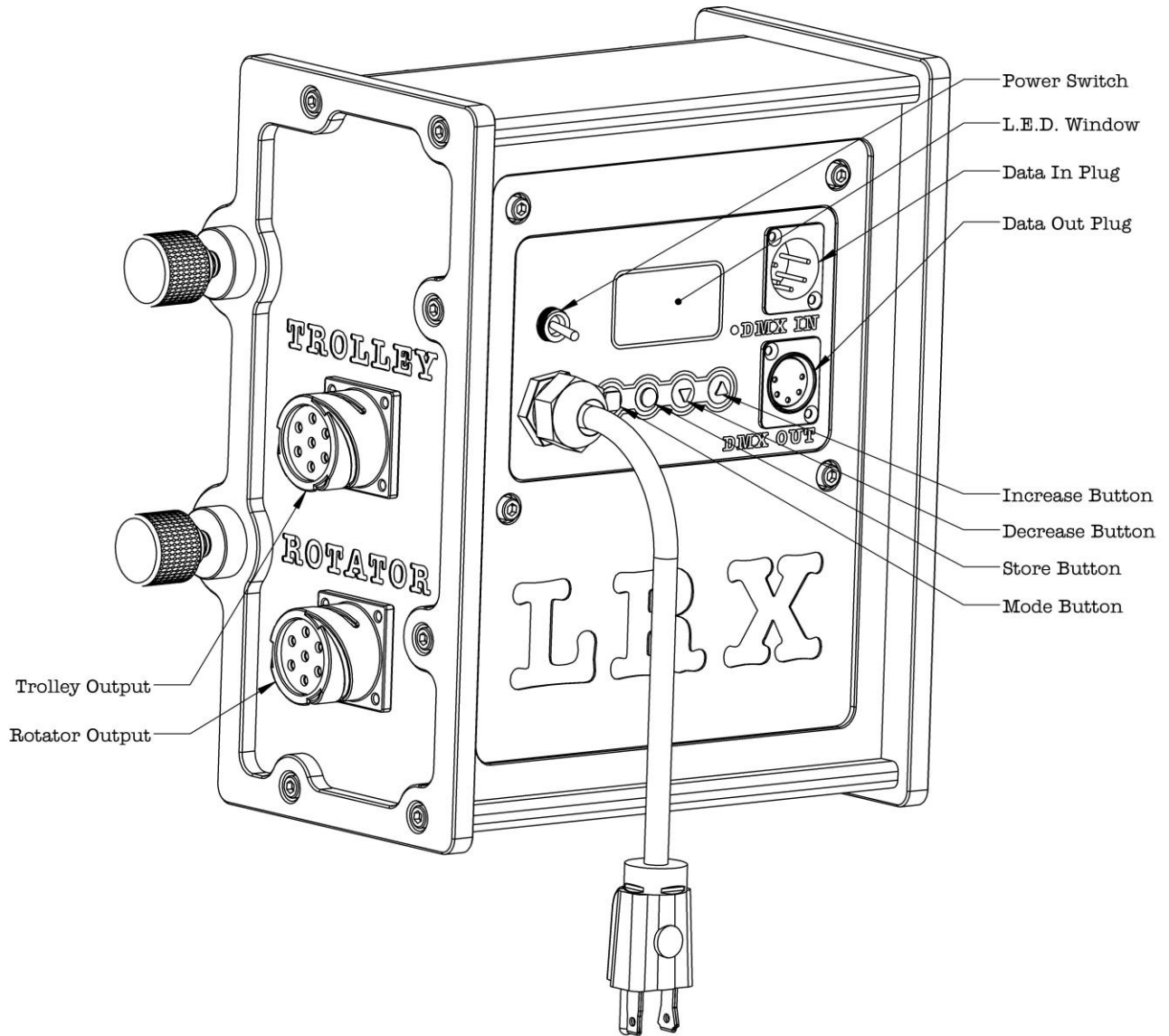
(N+0 > 127)	= pan left
(N+1 > 127)	= pan right
(N+2 > 127)	= tilt up - (NOT USED)
(N+3 > 127)	= tilt down- (NOT USED)
(N+4 > 127)	= spot- (NOT USED)
(N+5 > 127)	= flood- (NOT USED)
(N+6 > 127)	= trolley left
(N+7 > 127)	= trolley right
(N + 8, 9)	= reserved (future use)

If (MODE=FADER): (n+12>=128)

(N+0 < 64)	= pan left
(N+0 > 127)	= pan right
(N+1 < 64)	= tilt up- (NOT USED)
(N+1 > 127)	= tilt down- (NOT USED)
(N+2 < 64)	= spot- (NOT USED)
(N+2 > 127)	= flood- (NOT USED)
(N+3 < 64)	= trolley left
(N+3 > 127)	= trolley right
(N+4 thru 9)	= reserved (future use); each motor above is stopped when the fader is in the middle of its range (DMX value 64-127)

LRX™ Rotator

DMX CONTROLLER



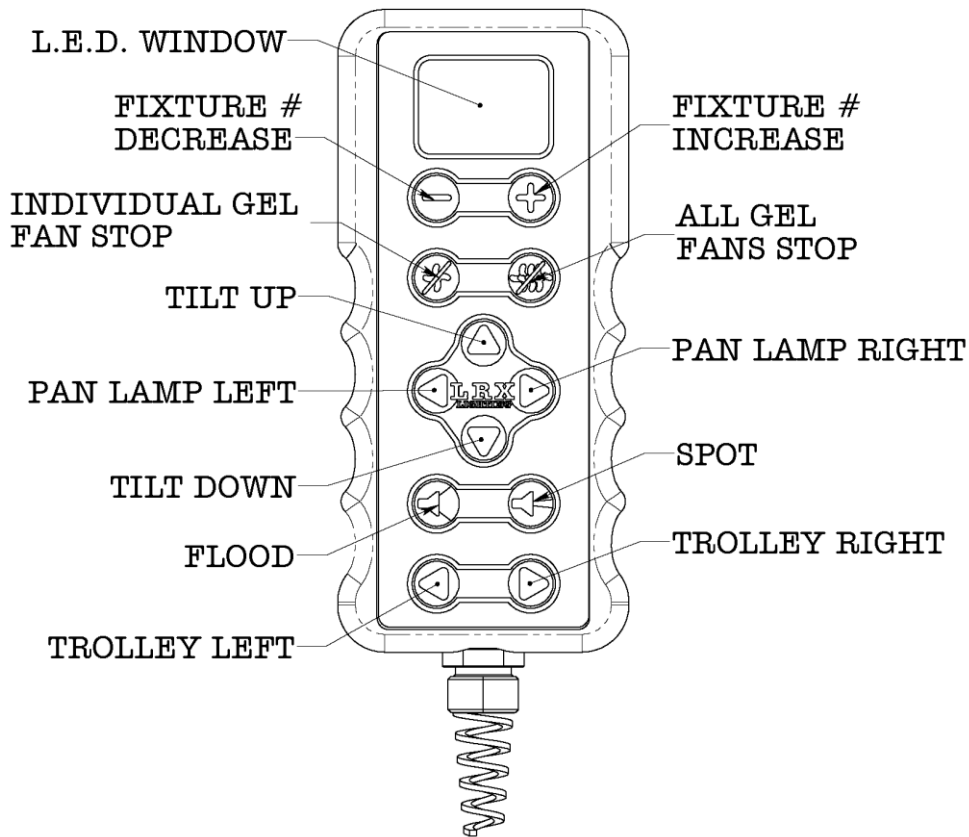
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HAND CONTROLLER

The hand controller will allow fixture selection,(up to 32 fixtures), control of tilt - up/down, pan - left/right and flood/spot functions and will also shut off individual gel cooling fans or all gel cooling fans connected to that controller.

All switches act as momentary type with the exception of the individual gel fan switch which will stop the gel fan indefinitely for the fixture indicated on the display, this will cause the LED display to flash when that fixture number is shown, and when that fixture number is not shown the display will show the decimal places to indicate that a fixture not shown has the gel fan turned off.



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HANDLING OF ROTATOR



- Heavy lift, minimum two persons, the weight is approximately 225 pounds.
- Handling unit creates a number of potential pinch points.
- If there are any concerns regarding handling please contact your supervisor.

INSTALLATION

- Rotator weight: 225 pounds
- Installation must be designed and approved to safely carry all anticipated loads and must be mounted to a structure capable of supporting the total load being applied.
- Maximum load capacity of rotator is 2,000 pounds, evenly distributed.
- Load limit is not to be exceeded.
- It is the user's responsibility and obligation to determine and comply with all applicable laws and regulations.
- The installation, operation and servicing of this unit to be carried out by only authorized and qualified personnel.
- If there are any concerns please contact your supervisor.

LRX ROTATOR SPECIFICATIONS

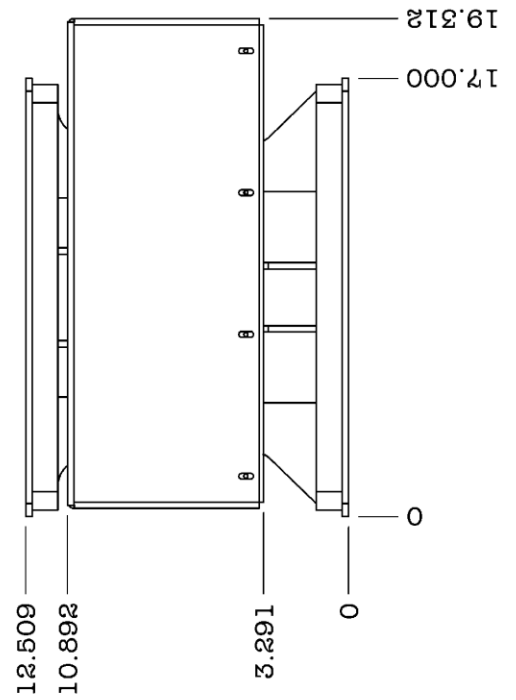
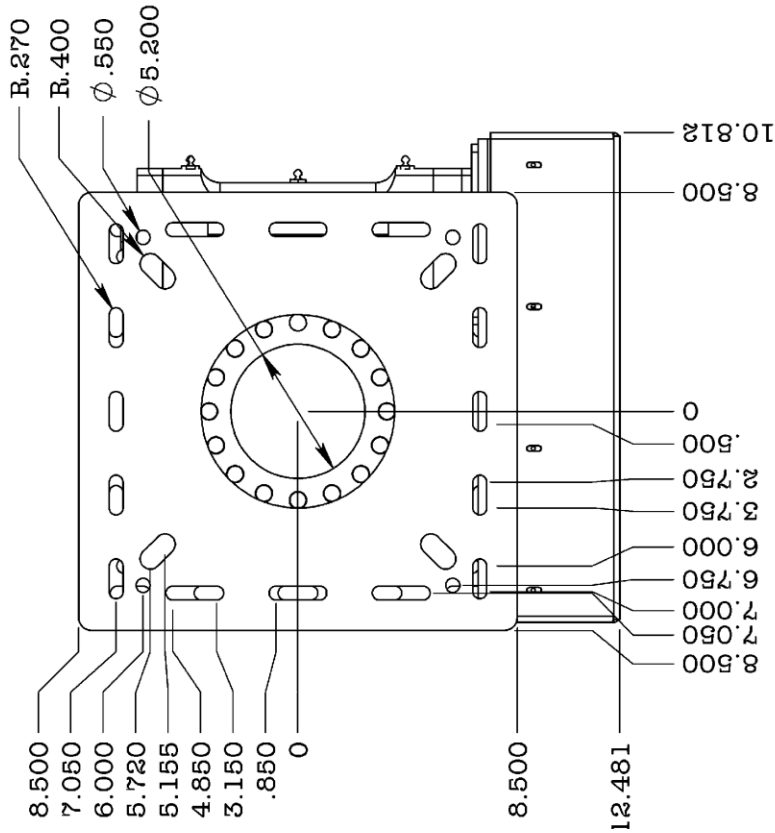
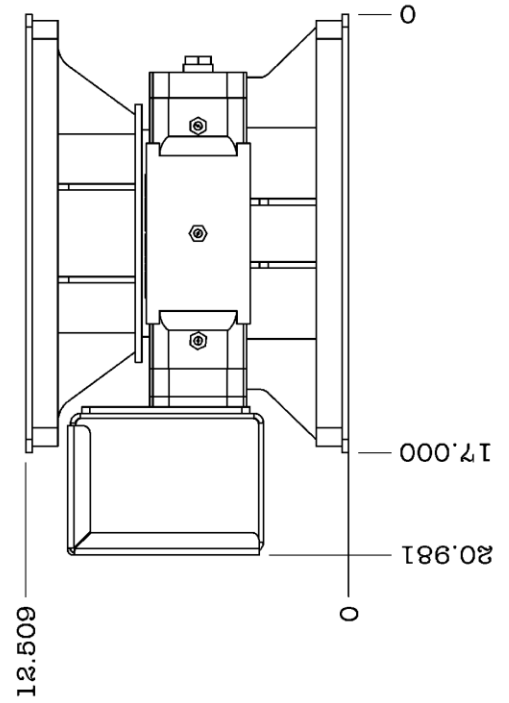
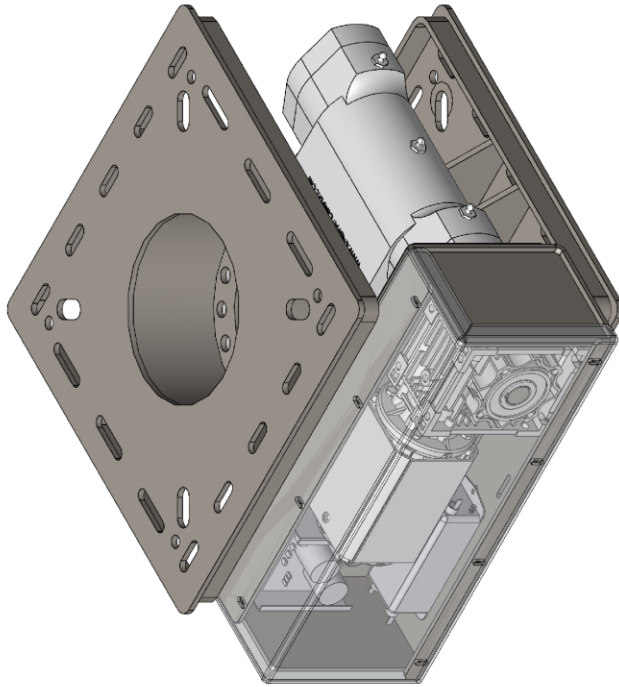
Control power: Volts – 120 VAC
 Hertz – 50 - 60
 Amps – 2.0

Physical:

- Weight - 225 pounds
- Capacity: 2,000 pounds
- RPM: 0 to 1.2 approximate (variable thru speed potentiometer).

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TROUBLE SHOOTING GUIDE

NO DISPLAY DMX CONTROLLER

- Ensure 120vac power to fixture is live and on a non-dimmed line.
- Remove head extension cable and inspect contact pins damage.
- Remove DMX connectors and inspect contact pins for damage and signs of corrosion
- Inspect 120 volt U ground supply wire for cuts or mechanical damage
- Inspect U ground plug contacts.
- Power switch is on (up position)
- Disconnect all power sources and remove cover.
- Check ribbon cable from main board to display board.
- Check all cable connectors are securely plugged into boards and that all wires are properly screwed into connectors.

ROTATOR DOESN'T RESPOND

- Ensure DMX controller displays the F prefix and that the numbers match the hand controller and DMX indicator must be lit.
- *It is important to note that the LRX fixture will not begin responding to a newly selected FIXTURE/DMX address until it has been stored by pressing and holding the store (round icon) button.* If the display is flashing, this is a warning that the displayed FIXTURE/DMX address does not match the address that the fixture is currently responding to.
- Plug LRX fixture controller directly into the fixture without any extension cables and test.
- If rotation axis does not respond when connected to an LRX DMX Controller, switch the rotator plug to trolley output and test. Test function using trolley buttons.
- If rotator now works, the problem will be in the DMX controller.
- If problem remains, switch hand controller and see if problem remains.
- If problem persists refer for service.