

# Futura Disc

## Installation instructions for FUT Series

**WARNING:** These products may represent a possible shock or fire hazard if improperly installed or attached in any way. Products should be installed in accordance with these instructions, current electrical codes and/or the current National Electric Code (NEC).

**WARNING:** To avoid electrical shock, disconnect or disable power at the source prior to installation or maintenance.

**WARNING:** To avoid electrical shock, use only with 12V DC plug-in power supply or with 12V DC hardwire power supply. Factory warranty will be void if used with a non-recommended power supply, transformer, or driver.

### IMPORTANT SAFETY INSTRUCTIONS

1. The Futura Disc is IP20 rated and intended for indoor use in dry locations only. Do not use in the vicinity of standing water or liquids. Do not submerge in water or liquids.
2. Do not use if there is any damage to the unit or to the power cord's insulation. Inspect periodically.
3. Do not route cords or units through walls, doors, windows or any similar part of a building structure.
4. Do not secure unit or its power cord with staples, nails, or any other sharp objects that may damage fixture.
5. Please read and understand these instructions before beginning installation.

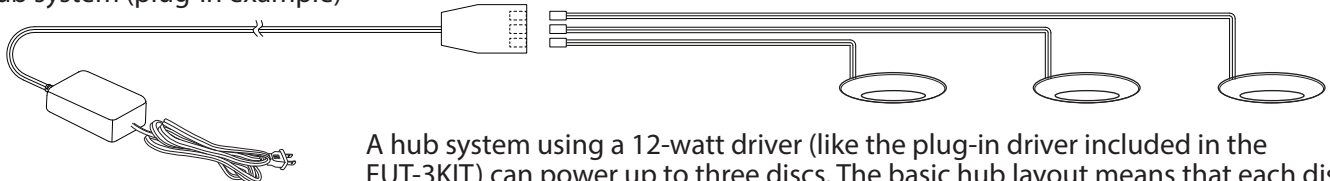
### IMPORTANT

**Risk of shock or fire hazard:** This fixture utilizes a constant voltage design and has a maximum number of discs that can be connected to a power supply, depending upon the power supply's capacity and the type of installation. Do not exceed the capacity of power driver used. Each disc consumes 3.0 watts. For all drivers, a maximum load less than or equal to 80% of its capacity will result in maximum driver life. Do not exceed five discs in a single run.

### PRIOR TO INSTALLATION:

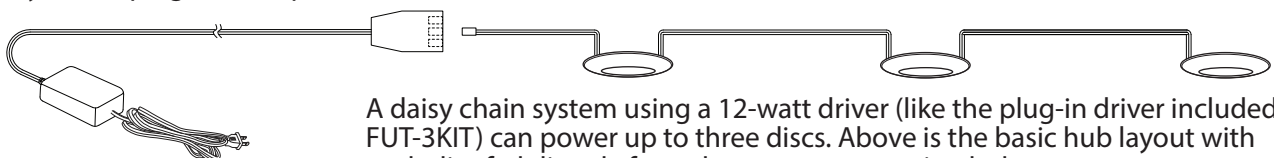
Determine the quantities and locations of Futura Discs that will be needed, whether to use a hub system or daisy chain for power input, or a combination the two. See examples below to determine which type of power supply (plug-in or hardwire) will be best. Note: Futura Discs are designed for surface mount applications only.

#### Hub system (plug-in example)



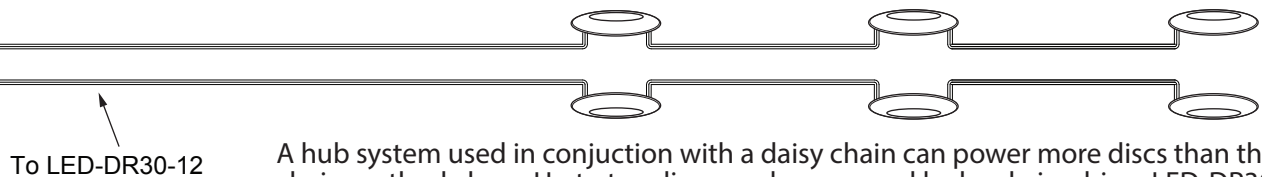
A hub system using a 12-watt driver (like the plug-in driver included in the FUT-3KIT) can power up to three discs. The basic hub layout means that each disc is fed directly from the power connection hub.

#### Daisy chain (plug-in example)



A daisy chain system using a 12-watt driver (like the plug-in driver included in the FUT-3KIT) can power up to three discs. Above is the basic hub layout with each disc fed directly from the power connection hub.

#### Hub system - daisy chain combination (hardwire example)



To LED-DR30-12

A hub system used in conjunction with a daisy chain can power more discs than the daisy chain method alone. Up to ten discs can be powered by hardwire driver LED-DR30-12 but **do not exceed five pucks interconnected (aka "daisy chained") in a single run.**

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# Futura Disc

## Installation instructions for FUT Series Continued from reverse...

### Surface mounting

1. Press and twist the surface ring clockwise to separate the surface ring from the Futura Disc housing. See Figure 1.
2. Determine desired locations for each disc and mark the locations of the mounting holes on the mounting surface, using the mounting screw holes in the housing as a guide. Note: Be sure to leave room for connecting wires and allow for distance to reach the power supply.
3. Using included mounting screws, attach the Futura housing to the mounting surface.
4. Attach connection and power wires where needed. See Figure 2.
5. Align Notch on housing with "Open <--> Close" marking on surface ring (WH and BK discs only) then re-attach the surface ring by pressing firmly against housing and twisting counter-clockwise. See Figure 1.

### POWER CONNECTION:

1. Determine best location for the power connection hub or driver, considering the 72" lead wire length on each disc.
2. Route each of the lead wires from the disc lights to an available port on the hub (for kits) or to the driver or connection block for the bulk discs.
3. For kits, after lead wires are connected to the hub, plug in the power supply to a 120V AC wall outlet (receptacle).
4. For bulk systems using a bulk plug-in power supply (PS-12-12VPI-T), route the lead wire to the terminal block, separate the Red and Black lead wires, then attach them to the terminal block, matching polarity as follows: Red lead wires twisted together, lining up with dashed lead from power supply and Black lead wires twisted together, lining up with Black lead from power supply. See Figure 3.
5. For bulk systems using a hardwire power supply, separate the Red and Black lead wires per step 4 above, then attach them to the power supply matching polarity as follows: Red wires twisted together to the negative terminal and Black wires twisted together to the positive terminal. Connect supply power to the hardwire power supply per its instructions.

See [www.americanlighting.com](http://www.americanlighting.com) for availability of dimming hardwire power supplies.

### WARNING! Risk of shock.

1. Combining bulk disc lights that consume 3.0 watts each will need a driver with a capacity able to handle the attached load. For sets of up to ten disc lights, use LED-DR30-12. This is the maximum number of discs that can be connected to one power supply. Do not exceed the maximum.
2. Do not attempt to remove or change the LEDs in these fixtures.
3. Do not route wires through walls, floors or ceilings.
4. Route cords so they will not be pinched or damaged.
5. Do not alter plugs or connectors.
6. Not intended for recessed installation inside enclosed cabinetry (cabinetry that is not open at the top), ceilings, or soffits.

### ADDITIONAL SAFETY MEASURES:

1. Use only insulated staples or plastic ties to secure cords.
2. LEDs are bright! Do not look directly at lighted fixture.
3. Keep lamp away from curtains, draperies and similar flammable materials.
4. For indoor use only.

### IMPORTANT SAFETY INSTRUCTIONS:

The plug-in power supplies have a polarized plug (one blade is wider than the other) as a feature to reduce the risk of electric shock. This plug will fit in a polarized outlet only one way. If the plug does not fit fully in the outlet, reverse the plug. If it still does not fit, contact a qualified electrician. Never use with an extension cord unless plug can be fully inserted. Do not alter the plug.

