

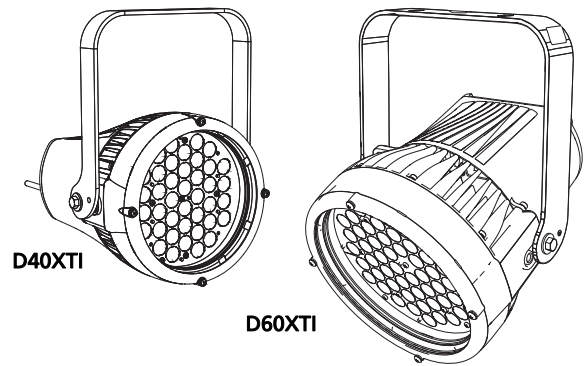
ETC Installation Guide

Desire Series D40/D60 XTI

Overview

The Desire D40XTI and D60XTI fixtures are designed for permanent installation indoors or outdoors. They feature an IP66 rating, a rugged die-cast enclosure, stainless steel mounting yoke, and noiseless fan-free operation.

The Desire XTI fixtures can be pipe mounted with a C-clamp, pole mounted, wall mounted, or installed to a permanent base. Mounting accessories are available. Contact ETC Customer Service for assistance (see contact information at bottom of page).



CAUTION: *Do not attempt to install or use a fixture until you read and understand the installation instructions and safety labels.*



WARNING: RISK OF ELECTRIC SHOCK! This device should only be installed by a qualified installer or electrician. Follow all local codes for installation.

AVERTISSEMENT : RISQUE DE DÉCHARGE ÉLECTRIQUE! Cet appareil ne doit être installé que par un installateur qualifié ou un électricien. Suivez tous les codes locaux pour l'installation.

Specifications

Environment

Operates in ambient temperatures of -20°C to 40°C.



WARNING:

- Risk of eye injury. Do not stare directly into the light.
- Do not mount the fixture on or near a flammable surface.

AVERTISSEMENT :

- Risque de lésion oculaire. Ne fixez pas directement la lumière.
- Ne pas installer le projecteur sur ou à côté d'une surface inflammable.



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Control

The Desire XTI fixtures have a 1.8 m (6 ft) bare-end Cat5 data cable with braided shield for connection to a DMX/RDM control network.

A separate termination board is included for the termination of control wiring. Install the termination board into a voltage-separated junction box (junction box provided by others). Use the termination board for the following terminations:

- Connection of the Desire XTI data cable to the provided connector. The braided shield connects to the termination board strain relief for ground.
- Connection of DMX/RDM input from the control source using Belden 9729 (or equivalent) cable or Cat5 (or equivalent) cable.
- Connection of DMX/RDM thru to the next DMX device using either Belden 9729 (or equivalent) cable or Cat5 (or equivalent) cable. Order a termination kit (ETC part number 4100A1022) for this connection. You can daisy-chain up to 32 DMX/RDM devices on a data run.

Electrical



WARNING: RISK OF ELECTRIC SHOCK! Power must be off when you perform this procedure.

AVERTISSEMENT : RISQUE DE DÉCHARGE ÉLECTRIQUE! L'alimentation doit être éteinte avant d'exécuter cette procédure.

The Desire XTI fixture has a 1.8 m (6 ft) bare-end waterproof mains power input cable and should be terminated in a voltage-separated junction box (provided by others).

The universal power supply accepts 100–240 VAC 50/60 Hz.



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- CAUTION:**
- *Do not use a fixture for any voltage for which it is not rated. Do not exceed the specified voltage and current input for any fixture. Connecting the fixture to a voltage outside the acceptable range may damage the unit and will void the factory warranty.*
 - *The fixture must be grounded.*
 - *The installation requires an application-appropriate electrical junction box with cord grips (ETC recommends a voltage-separated junction box). The junction box must not interfere with fixture focusing.*
 - *Do not open the fixture housing. The fixture is factory pre-wired.*
 - *The fixture must be connected to a non-dimmable power source. Dimming the unit will damage the fixture and void the factory warranty.*
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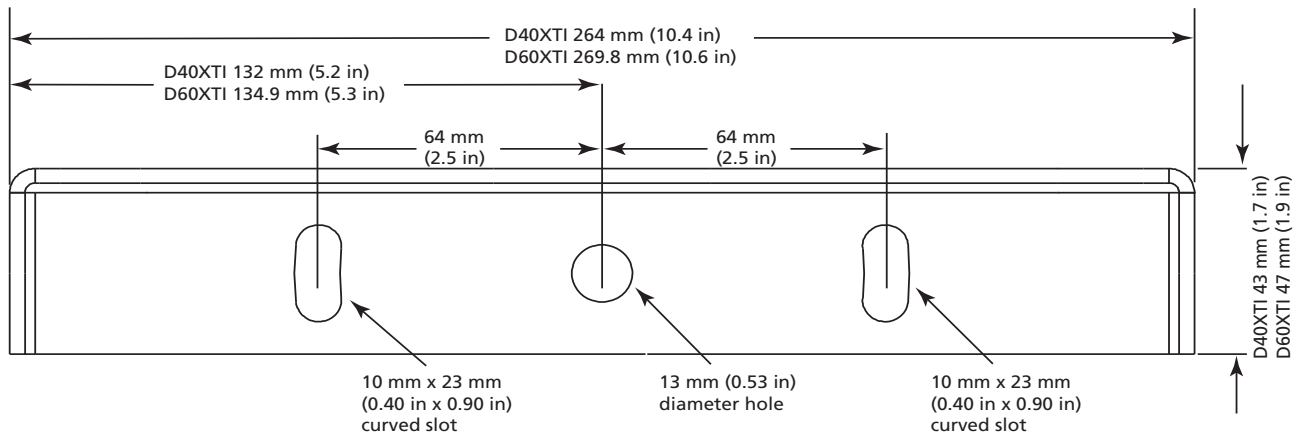
Mounting

Desire XTI fixtures can be installed on a pipe with a C-clamp or a suitable rigid permanent base with secure mounting hardware. The installation base may include a poured concrete pad, factory-supplied pole-top or wall-mount brackets, or other attachments that meet the following weight and wind-load requirements:

	Weight	Wind Load*
D40XTI	7.5 kg (16 lb)	0.75 (EPA)
D60XTI	10.52 kg (24.7 lb)	0.95 (EPA)

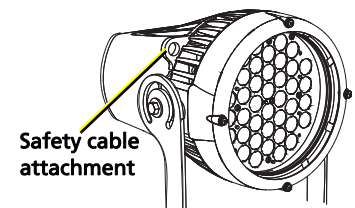
* The EPA number is obtained by estimating Cd (wind drag coefficient) and multiplying it with the projected area of the object. Wind drag coefficients were obtained from AASHTO Sixth Edition 2013.

The mounting hole locations are the same for both the D40XTI and D60XTI yokes, but the overall dimensions are slightly different. Use the measured template below for ground (surface) mounting. Use application-appropriate mounting hardware (bolts, nuts, and washers), such as hot-dipped zinc or galvanized stainless steel for wet locations. Mounting hardware is not provided.



Safety Cable

The safety cable should be attached to the fixture housing and wrapped around the hanging or mounting structure. An attachment loop is provided on the fixture housing. Leave as little slack as possible in the safety cable to avoid the cable catching the yoke of the fixture.



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Installation



WARNING: Failure to follow these warnings may result in serious injury or death.

- Do not use this fixture with a damaged power lead. If the power lead (cord set) is damaged, it must be replaced.
- Do not expose the interior of the fixture to moisture.
- Do not stand in water while installing or servicing the fixture.

AVERTISSEMENT : Ne pas respecter ces avertissements peut entraîner des blessures graves ou la mort.

- Ne pas utiliser ce projecteur avec un cordon d'alimentation endommagé. Si le cordon d'alimentation (câble) est abîmé, il doit être remplacé.
- N'exposez pas l'intérieur du luminaire à l'humidité.
- Évitez d'avoir les pieds dans l'eau lors de l'installation ou de l'entretien de l'appareil.

1. Prepare the installation location, conforming to the [Mounting](#) specification on [page 3](#). When using a Desire XTI mounting accessory, see the installation instructions provided with the accessory.
2. Hang or mount the fixture. Use the center hole in the yoke when frequent focusing adjustments are necessary. Use all three mounting holes when installing the fixture in permanent/fixed locations. The elongated holes allow for small focus adjustments as needed.



WARNING: RISK OF DEATH BY ELECTRIC SHOCK! Before installing input power, make sure the upstream source of power is off or isolated. Follow appropriate Lockout/Tagout procedures as described in NFPA Standard 70E.

AVERTISSEMENT : RISQUE DE MORT PAR ÉLECTROCUTION! Avant d'installer l'alimentation d'entrée, assurez-vous que la source d'alimentation en amont est éteinte ou isolée. Suivez les procédures de verrouillage/étiquetage appropriées prescrites par la norme NFPA 70E.

3. Terminate the power input leads. See [Electrical](#) on [page 2](#).

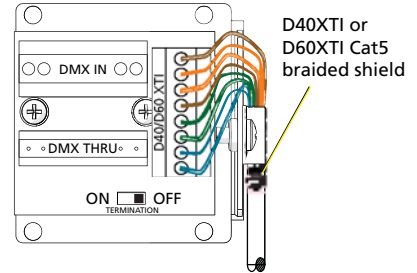
Mains	Europe	North America
Line	Brown	Black
Neutral	Blue	White
Ground (Earth)	Green/Yellow	Green

4. Install the termination board into a voltage-separated junction box. The termination board is provided with double-sided tape for easy installation. See [Control](#) on [page 2](#).

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5. Terminate DMX/RDM input cable from the Desire XTI fixture to the termination board.
 - a. Cut the Desire XTI DMX/RDM input cable (if necessary), allowing enough slack for positioning the fixture, terminations, and future service needs.
 - b. Route the cable through the strain relief of the voltage-separated junction box (provided by others).
 - c. Follow the DMX termination kit instructions provided with the product to terminate the control wiring.
 - d. Replace the connector to the termination board.
 - e. Loosen and remove the strain relief clamp screw on the termination board, and feed the Cat5 cable and braided shield under the strain relief clamp.
 - f. Replace the strain relief clamp screw and tighten.
6. Terminate DMX/RDM input from the control source to the termination board. This connection could be Belden 9729 or Category 5, and it could be made by termination in a junction box or by a permanent XLR style connector. See [Control](#) on [page 2](#) for information regarding cable specification.
 - a. Follow the DMX termination kit instructions provided with the product to terminate the control wiring.
 - b. Install the connector with wires terminated to the DMX IN receptacle on the termination board.
7. Optionally, terminate DMX/RDM thru to the next device in the DMX data run. Up to 32 DMX/RDM devices can be daisy-chained together per data run. See [Control](#) on [page 2](#).
 - a. Follow the instructions provided with the termination kit to terminate the control wiring. Termination kits are ordered separately (see [Control](#) on [page 2](#)).
 - b. Install the connector with wires terminated to the DMX THRU receptacle on the termination board.
8. Terminate the DMX data signal for the last DMX device in the data run by setting the termination switch on the termination board to ON. All other devices in the data run maintain the factory default termination setting OFF.



Note: Removing a fixture from the middle of a data run will eliminate DMX/RDM for the subsequent fixtures. To allow DMX to continue down the data run, replace the fixture with a Bypass Plug. To purchase a Bypass Plug, contact an ETC dealer and request part number 7410K4013. Or, for instructions on building your own Bypass Plug, visit etcconnect.com/DesireDMXBypass.

Initial Power Up

When power is first applied, all emitters come on at full. This look will stay active until turned off by an RDM device or until a preset is programmed. Once a preset is programmed this factory default is no longer available.

You can control and configure the Desire XTI over a DMX/RDM control network, or directly from a connected computer running Concert software. To control the Desire XTI directly from a PC, you will need a Gadget II Interface or a DMX/RDM gateway.