DayTech LED

5250 Satellite Drive, Unit 7, Mississauga ON L4W 5G5
Tel 905-617-0298
www.daytechled.com

CABINET LIGHTING · 12 / 24 VDC · PLUG-AND-PLAY

Cabinet Lighting Control System

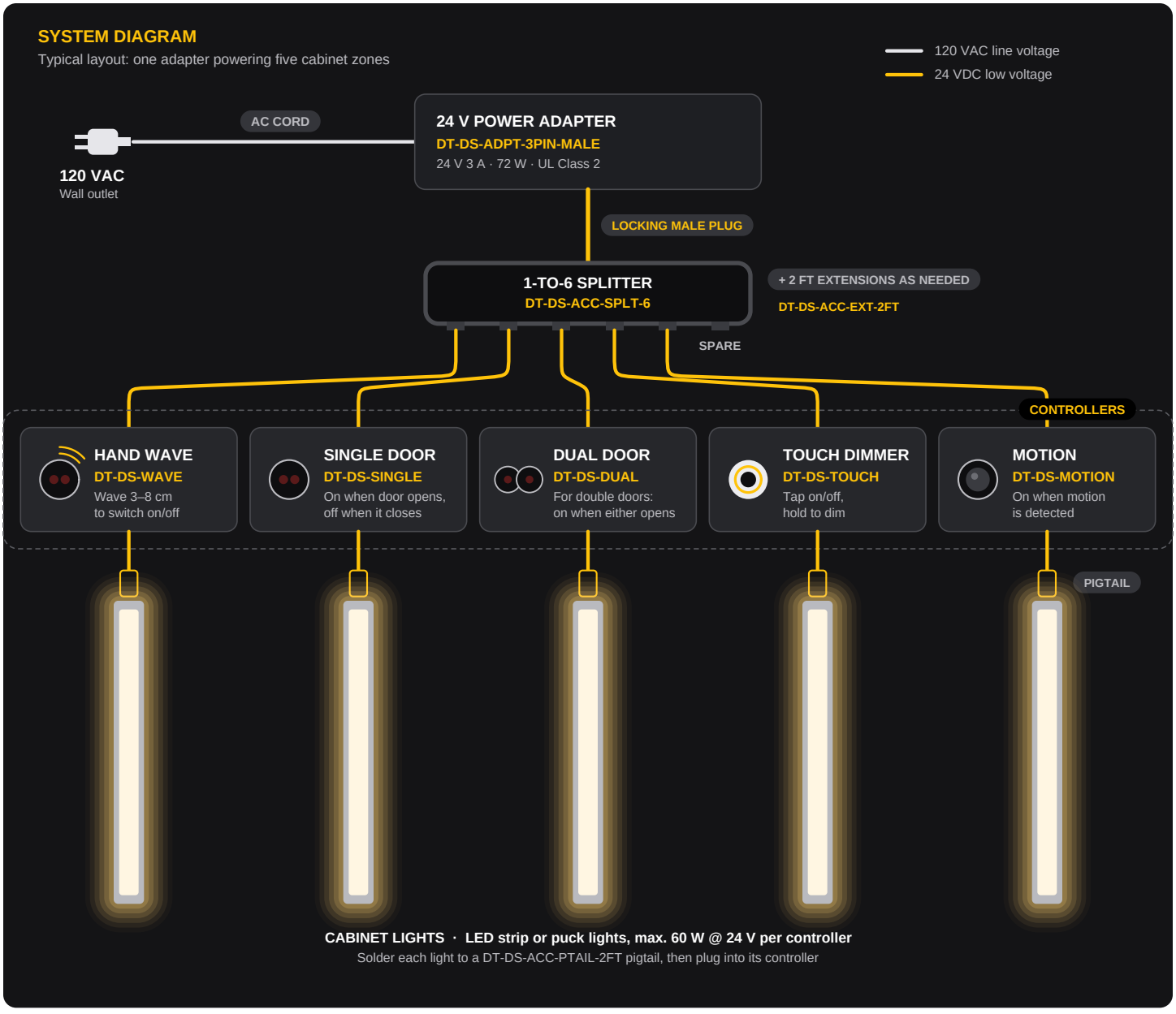
SERIES **DT-DS SERIES**

SYSTEM OVERVIEW

A **plug-and-play** control system for cabinet, closet and furniture lighting. One **24 V power adapter** feeds a **1-to-6 splitter**; each output runs to a **sensor or touch controller**, which switches its own light. Every part uses matching locking connectors, so no splicing is needed except to solder the pigtail to the light.

SYSTEM DIAGRAM

Typical layout: one adapter powering five cabinet zones



12–24 VDC	60 W / 36 W	72 W	1 → 6	22 AWG
CONTROLLER INPUT	MAX LOAD @ 24 V / 12 V	ADAPTER, 24 V 3 A	OUTPUTS PER SPLITTER	PLUG-IN LEADS

Specifications subject to change without notice.

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Products & Ordering

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CONTROLLERS

All controllers: DC 12–24 V input · max. load 60 W @ 24 V, 36 W @ 12 V



Single Door Sensor
DT-DS-SINGLE

Infrared door sensor with in-line controller. Lights turn **on when the door opens** and off when it closes. Mount the sensor head in the cabinet frame facing the door.

QTY



Dual Door Sensor
DT-DS-DUAL

Two sensor heads on one controller for **double-door cabinets**. Lights turn on when **either door** opens and off once both are closed.

QTY



Touch Dimmer Switch
DT-DS-TOUCH

Capacitive touch switch with ring indicator. **Tap** to turn on or off; **touch and hold** to dim up or down.

QTY



Hand Wave Sensor
DT-DS-WAVE

Touch-free switch: **wave a hand within 3–8 cm** of the sensor to turn the lights on or off. Ideal for kitchens and vanities.

QTY

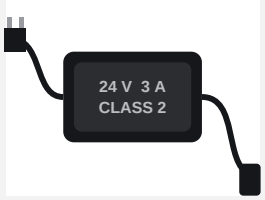


Motion Sensor
DT-DS-MOTION

Detects **body motion** and turns lights on automatically, then off after no motion is detected. Ideal for closets, pantries and toe-kicks.

QTY

POWER & ACCESSORIES



Power Adapter
DT-DS-ADPT-3PIN-MALE

24 V 3 A, UL listed Class 2, 3-pin plug with locking male connector

QTY



1-to-6 Splitter
DT-DS-ACC-SPLT-6

Runs up to six controllers from one adapter

QTY



2 ft Extension
DT-DS-ACC-EXT-2FT

Extends any run by 2 ft, 22 AWG

QTY



2 ft Pigtail
DT-DS-ACC-PTAIL-2FT

Solder to the light; plugs into the controller, 22 AWG

QTY



2 ft Female Lead
DT-DS-ACC-FEMALE-2FT

Female connector to power adapter, 2 ft

QTY

PO # _____ **PROJECT** _____

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Wiring & Installation

SERIES **DT-DS SERIES**

WIRING EXAMPLES

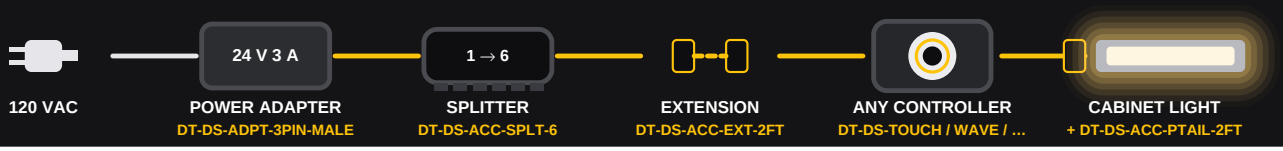
A · SINGLE CABINET

Simplest set-up: the adapter plugs straight into one controller, which switches one light.



B · MULTIPLE CABINETS FROM ONE ADAPTER

Splitter gives up to six independent zones; add 2 ft extensions wherever a lead needs to reach further.



C · DOUBLE-DOOR CABINET

Mount one sensor head behind each door; the light comes on when either door opens.



INSTALLATION

1. **Plan the zones.** One controller per cabinet or group of lights; add up the wattage of the lights on each controller.
2. **Prepare the lights.** Solder each LED strip or fixture to a 2 ft pigtail: red to +, black to –.
3. **Mount the controls.** Fit door sensors in the frame facing the door, touch and wave switches where they are easy to reach, motion sensors with a clear view.
4. **Connect.** Plug light → controller → (extension) → splitter → adapter. Connectors only fit one way.
5. **Power up and test.** Plug the adapter into a 120 VAC outlet and check each zone.

CHOOSING A CONTROLLER

Cabinet with a single door	**Single Door**	DT-DS-SINGLE
Double-door cabinet or wardrobe	**Dual Door**	DT-DS-DUAL
Open shelving, display or bar	**Touch Dimmer**	DT-DS-TOUCH
Kitchen or vanity, hands-free	**Hand Wave**	DT-DS-WAVE
Closet, pantry or walk-in	**Motion**	DT-DS-MOTION

IMPORTANT NOTES

- **Max load per controller:** 60 W at 24 V, 36 W at 12 V.
- **Adapter capacity:** the total of all lights on one DT-DS-ADPT-3PIN-MALE must not exceed 72 W (24 V × 3 A). Allow ~20% headroom: ~58 W.
- **Match voltage:** use 24 V lights with the 24 V adapter.
- **Low voltage:** Class 2 adapter; all controller and light wiring is low voltage. Plug into a standard 120 VAC outlet only.
- **Dry locations:** controllers and connectors are for indoor, dry cabinet interiors.
- **Example:** five cabinets, each with 1 m of 24 V strip at 9.6 W/m = 48 W in total. One adapter and one splitter cover the whole run, and each controller is well under its 60 W limit.

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