

DIMENSIONS[™]

D3200 Architectural Lighting Control System Specification Guide for Specifiers & Designers



Customizable,
Integrated,
Networkable
Dimming and
Scene Control
System

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D3200 Highlights

- 6 internally-driven dimming loads
- Controls up to 186 zones
- Allows 32 scenes per group (per single configuration)
- Links up to 31 D3206/8's
- LCD with Wizards for easy setup
- Astronomical Clock
- Learning IR Receiver
- Optional PC Interface
- Dims incandescent, magnetic low voltage, and Advance Mark X fluorescent
- 100 devices including accessories on LCnet
- 1650ft LCnet run
- 30ft drops

Additional D3208 Features

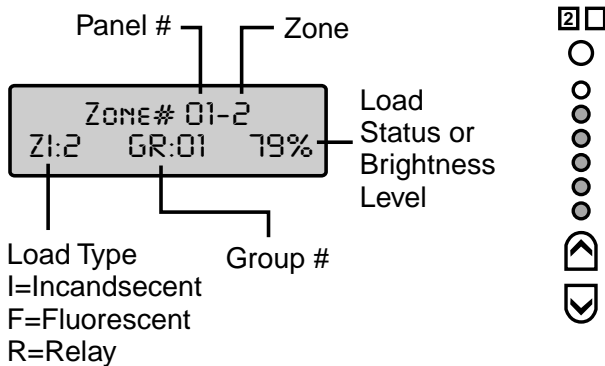
- Scheduled Scene Changes (no extra device required)
- Combine/Separate 8 partitions / 256 configurations (no extra device required)
- Controls up to 62 more zones (248 total)
- Easy front-panel access to 2 auxiliary LCnet dimming or switching loads

Both D3206/8 Units in Figure 1 (see page 2) provide eight scene buttons, and an Off and Max button. LED's indicate which scene is active and its current zone brightness levels. Either D3206/8 can be used to program the lighting system during installation. A series of intuitive Wizards (menus) will walk the installer through basic system setup, and can also be used to customize settings. Customization includes fade rates, minimum light levels, and scheduled scene changes (D3208 only) based on regular intervals, specific dates, dawn/dusk triggers via built-in astronomical clock, or even irregular schedules that give the appearance of occupancy during actual vacancy. The NE505 is especially useful where there is a second entranceway. Ganging units together allows users to select as many as 32 scenes from a single configuration.

ABOUT ZONES

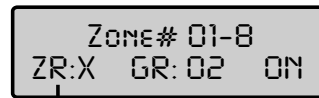
A zone is one or more loads controlled together. Every load wired to a D3206 or D3208 is associated with a zone number. Each D3206/8 Controller may be hardwired to up to six zones. Zone numbers range from 1 to 6 but each load is also associated with the D3206/8's panel number or address. In a system with multiple D3200's, this differentiates it from all other zones with the same number.

This is what D3206/8 Controller 1 in Group 1 would display while adjusting Zone 2, an incandescent load.



D3206/8's can also control auxiliary dimming and non-dimming LCnet loads that have not been directly wired to any D3206/8. The D3208 features two extra zone rows reserved for these auxiliary zones (for example, network dimmers and motor relays).

This is what a D3206/8 Controller would display when you have just switched on a non-dimming load that is wired to the LCnet and is part of Group 2.

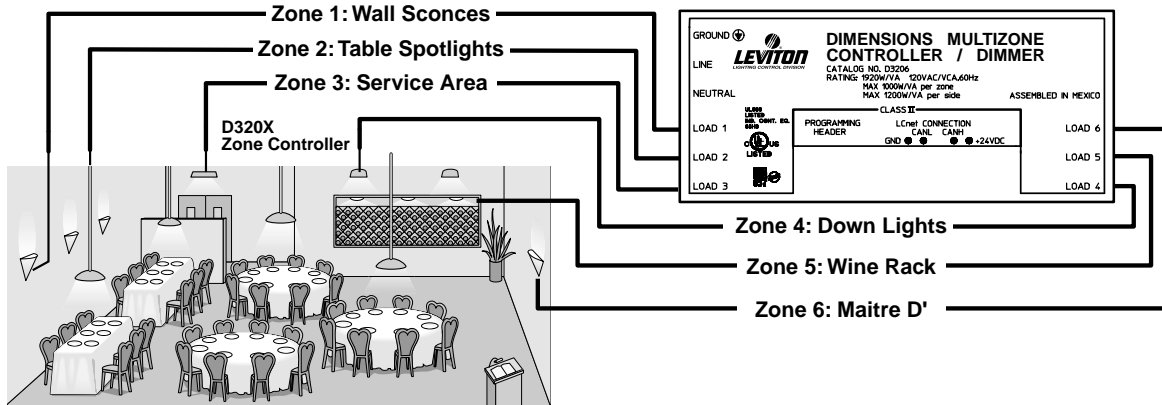


NOTE: A zone can be excluded from a scene so that switching to that scene will have no effect on a specific zone.



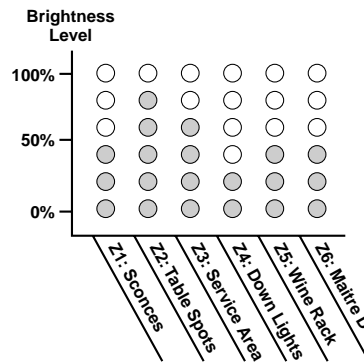
SCENE SCENARIOS

This illustration depicts a room in a restaurant with six different types of lighting. This same room is used as the basis for the scene scenarios that follow.



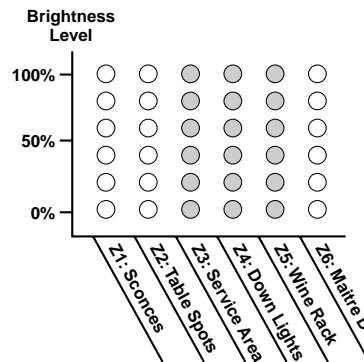
DINNER
10/15/01 5:30pm

Combining a number of lighting elements creates an ideal dining ambiance. Wall sconces are dimmed to give the impression of candlelight. Down lighting is kept dim so the space is not too bright, although individual tables are well lit with overhead spotlights so customers have enough light to eat their meals.



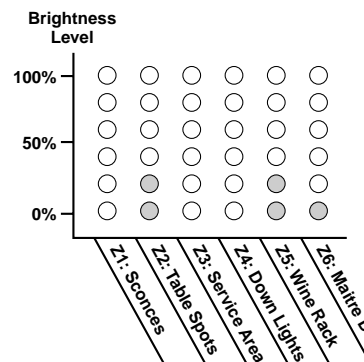
CLEANUP
10/15/01 11:19pm

General lighting is maximized to facilitate cleanup. The wine rack is fully lit to ease restocking. Table spotlights and wall sconces are turned off to preserve lamp life.



AFTER HRS
10/16/01 12:03am

A night light effect is accomplished by using table spots at low levels. The wine rack, which consumes relatively little electricity, is left on at a similarly low level.



Partitioning

Incorporating a D3208 into the D3200 System enables you to adjust lighting based on room partitioning. To understand how Dimensions handles partitioning you must first understand what Leviton refers to as Groups and Configurations.

GROUP

A group is a collection of zones (in its most basic form: consecutive zones assigned to a single D3206/8) that is assigned a group number. A maximum of 32 groups may be programmed to a D3206/8 Unit. Note: A single zone set (for example, zones 1 to 6 hardwired directly to a single D3206/8) may be assigned to more than one group, corresponding to different configurations.

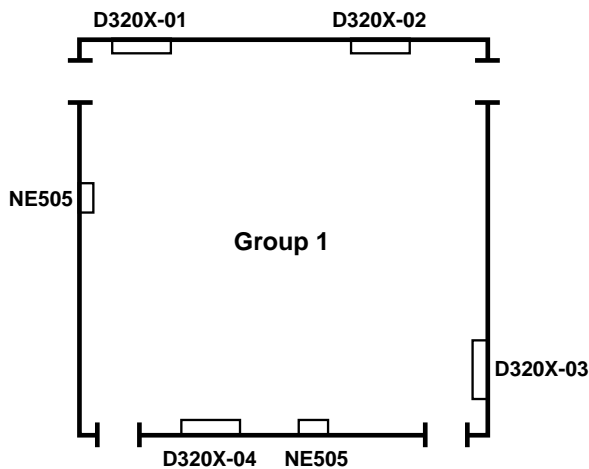
CONFIGURATION

To create a configuration, you assign a group number to each device so that every device within a single group works together. This is ideally suited to areas with partitions that change how a space is configured. The examples below illustrate four configurations for a space with a removable partition. In this case, additional configurations are possible beyond the four shown here.

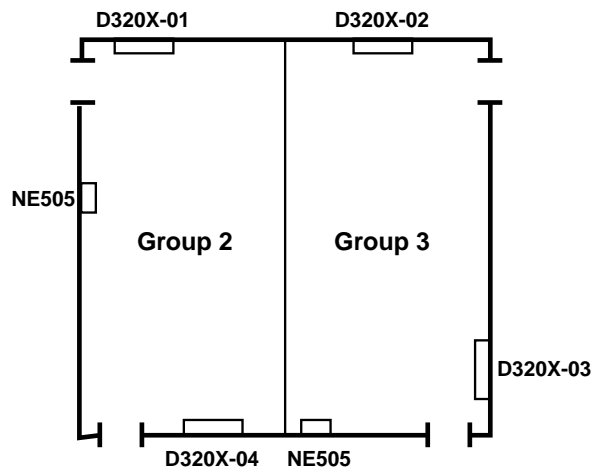
Please note that when you set one D3208 to a specific configuration, all other Zone Controllers on the same LCnet will automatically revert to that configuration, as will all NE505 Scene Controllers.

NOTE: There can be eight partitions, which may yield as many as 256 configurations.

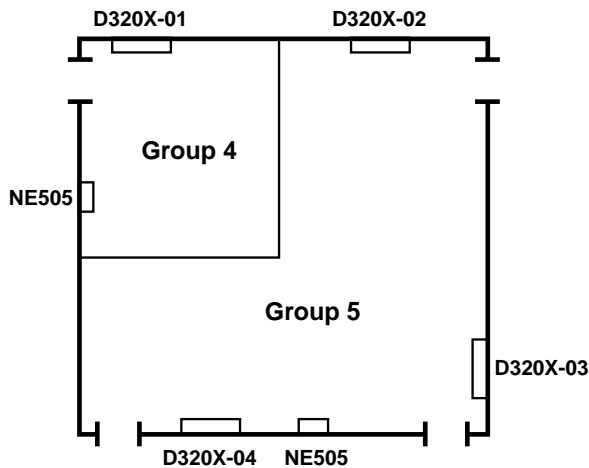
CONFIGURATION 1



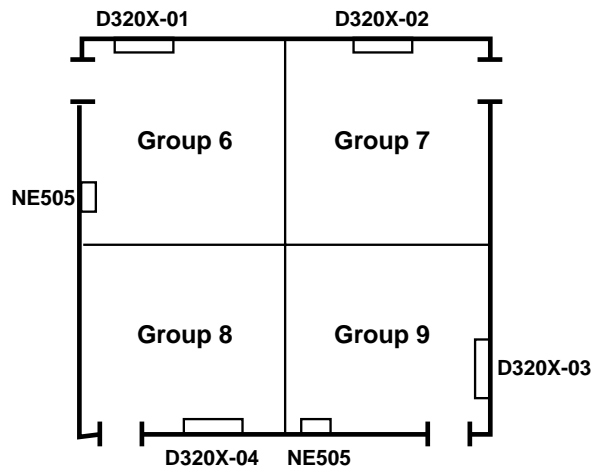
CONFIGURATION 2



CONFIGURATION 3



CONFIGURATION 4



Interacting with Dimensions D3200

D3206/8 CONTROLLER LCD WINDOW

You can interact with every feature the system has to offer using the D3208 Controller/Dimmer, and most with the D3206. Both units feature function buttons that allow you to navigate through Wizards used for system programming and operations.

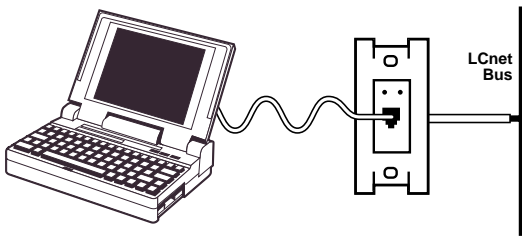
USE ▲,▼ OR SEL
<SCENE WIZARD>

The D3200 Architectural Lighting Control System provides a number of other options for interfacing with the system to varying degrees.

D3200 SETUP SOFTWARE

This software simplifies programming and basic system setup. Intended for installer and facility administrator use, it can be used to program scheduled scene changes, store scene names, and define numerous other customizable options.

The NE100 Smart Jack connects a PC to the LCnet system for programming and setup.



HANDHELD REMOTE CONTROL

You can use a Leviton NE210 Remote Control or any other standard handheld remote to make scene selections from The D3200 System. Either remote must be programmed to every D3206/8's or NE505 with which you need it to work. Once this is done, selecting a scene number will change the scene according to the current configuration. Access for up to 32 scenes at one time can be programmed into a standard remote control if it has enough buttons to accommodate those scenes. The NE210 features eight scene selections.

No matter which type of remote is chosen, it must be pointed at a D3206, D3208 or NE505 in order to operate. The capability of the remote will vary based on the device to which it is pointed. Pointed at a D3206/8's, it will be able to group dim/brighten, brighten to maximum, and turn loads off. Either handheld remote will be limited in its scene capability when pointed at an NE505, which can only access four scenes at one time.








NOTE: Handheld remotes are intended for scene control. They cannot interact with Dimensions Wizards for system programming, selecting groups or configurations, or adjusting individual zones.

WALL-MOUNTED SCENE CONTROLLER

The NE505 is a convenient way to provide scene recall in multiple locations. The NE505 recalls four consecutive scenes from the D3206/8 unit, and up to eight NE505's may be ganged together for access to additional scenes

D3200 Components

Check with your Leviton representative for availability of additional scene controllers or other D3200 components.

D3200 COMPONENT	GENERAL USE	COLOR	SIZE
D3206 Controller/Dimmer 	<ul style="list-style-type: none"> - Dimming/scene control for each 6 (max) zones of lighting within a specific area or application - 186 zone maximum 	Ships with all White frame/cover. Face is black with gray and translucent buttons. Color Kits ¹ for frame/cover in Ivory/Ivory, Almond/Almond, White/Smoke, Gray/Gray, and Black/Black.	4.73 x 8.80 x 2.65in. 12.0 x 22.4 x 6.7cm
D3208 Controller/Dimmer 	<ul style="list-style-type: none"> - Same as D3206 PLUS - Combine/separate for partitioning - Scheduled scene changes - 2 auxiliary zones on front panel - 62 more zones (248 max) 	Same as D3206	Same as D3206
NE505 Scene Controller 	<ul style="list-style-type: none"> - For 4-scene recall via a wall controller - When an additional IR receiver (for use with a remote control) is needed 	Ships in all White switch/wallplate with Ivory switch option. ²	4.71 x 1.76 x 1.36in. 12.0 x 4.5 x 3.5cm
NE210 IR Remote Control 	To adjust lighting without walking to a wall controller ³	Black	6.79 x 2.0 x .84in. 17.2 x 5.1 x 2.1cm
NE600 Terminator Block 	Terminates the LCnet run if the total wire length, including taps, is longer than 10ft	White	2.25 x 2.02 x .81in. 5.7 x 5.10 x 2.1cm
Power Extender – DPSPE-112 ⁴ DPSPE-212 ⁵ 	Extends D3206/8 power capacity to 2000W/VA per zone	Metallic	5.0x 5.43 x 1.0in. 12.7 x 13.8 x 2.5cm
NE100 SmartJack 	To enable D3206/8 Setup Software to operate	Ships White with a matching White Decora wallplate, and an optional Ivory jack color kit. ¹	4.41 x 1.76 x 1.69in. 11.2 x 4.5 x 4.3cm
D3200 Setup Software	Installed on a PC or laptop for performing installation, customization, uploading, and backup	NA	NA

1. Separate purchase 2. Matching Ivory wallplate must be ordered separately 3. 40ft IR range

4. Or compatible Leviton power extenders: drives, incandescent, magnetic low voltage, Advance Mark X™ fluorescent ballasts.

5. Or compatible Leviton power extenders: drives 0-10VDC, Advance Mark VII™, OSRAM Sylvania Quicktronic Helios, High Lume™, Eco 10™ ballasts.

Software can be downloaded from www.leviton.com/D3200

Specifications

LOAD WIRING CONSIDERATIONS

The following load types are compatible with D3206 and D3208 Zone Controllers:

- Incandescent
- Tungsten
- Magnetic Low Voltage Transformer
- Advance Mark X Electronic Fluorescent
- Neon
- Cold Cathode

LOAD CAPACITY: A single zone can accommodate up to 1000W/VA. A single D3206/8 can handle up to 1920W/VA total (no more than 1200W/VA per side). If the anticipated load for the zone or unit exceeds the maximum allowable, a power extender may be used.

CONTROL WIRING CONSIDERATIONS

TYPE: Cat-5 wiring is recommended for the Leviton Control Network (LCnet) bus.

WIRE LENGTHS: The total wire length from the beginning to the end of the LCnet wire should not exceed 500 meters (1640 feet). The tap measured from the splice into the LCnet to the wire's entry into the device should be no longer than 9 meters (29.5 feet).

NODE LIMIT: A single D3200 LCnet can have up to 100 devices attached to it. Additional LCnet bus(es) must be installed for installations requiring more than 100 devices.

TERMINATION: The LCnet bus must be terminated with two Terminator Blocks if the LCnet run, as well as the length of all the wires running off the splices, is greater than 10 feet. There is no need to install Terminator Blocks if the total is less than 10 feet.

INPUT CURRENT RESTRICTIONS: Certain D3200 components must be wired into the LCnet bus as well as to a power source (most likely a nearby zone controller). Both D3206/8 models can safely accommodate up to 150mA draw. The chart below presents the input current of each of power-consuming D3206/8 component as well as the maximum number of any single peripheral component that may have its power wires connected to a single Zone Controller—when no other peripherals are attached. A simple formula will ensure that you do not assign too many components to any one Zone Controller.

Peripheral Catalog No.	Input Current (in mA)	Maximum Quantity
NE505	25	6
NE100	40	3

$$\begin{aligned}
 & \text{Peripheral A Input Current} \times \text{Number of Peripheral A's} \\
 & \quad \text{attached to single Zone Controller} \\
 & \quad \quad \quad + \\
 & \text{Peripheral B Input Current} \times \text{Number of Peripheral B's} \\
 & \quad \text{attached to single Zone Controller} \\
 & \quad \quad \quad + \\
 & \text{Same formula for any other attached Peripheral} \\
 \hline
 & \leq 150
 \end{aligned}$$

D320X MOUNTING CONSIDERATIONS

Use a 5-gang, 2.5in.-deep switch box with a 4-gang raised cover.

SOFTWARE REQUIREMENTS

Operating System: Windows 95/98/NT4.0/2000. See Website, www.leviton.com/D3200, for latest OS compatibility.

Hardware Requirements: CD-ROM drive

Limited 2-Year Warranty

This warranty gives you specific rights, and you may also have other rights, which vary in different states and countries. Leviton warrants to the original consumer purchaser that this product is free of defects in materials and workmanship for 2 years from the purchase date. Leviton's only obligation is to correct such defects by repair or replacement, at its option, if within such 2 years the product is returned prepaid, with proof of purchase date, and a description of the problem to the Leviton Manufacturing Co., Inc., ATTN: Quality Assurance Department, 59-25 Little Neck Pkwy., Little Neck, NY 11362-2591. This warranty does not cover labor for removal or reinstallation of the product and is void on any product installed improperly or in an improper environment, overloaded, misused, opened, abused, or altered in any manner. There are no implied warranties of any kind, but if implied warranties are required by the applicable jurisdiction, Leviton limits the duration of any implied warranty of fitness for use

or merchantability to 2 years. Leviton is not liable for incidental or consequential damages, including without limitation, loss of equipment use and lost sales or profits for breach of any warranty on this product. Some jurisdictions may not allow exclusion of or limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above exclusions or limitations may not even apply to you.

Additional Information

For information tailored to help you create project specifications, please refer to Leviton's SpecRight AIA Specifications found on www.leviton.com/D3200. For additional product information on individual components including dimensional drawings and mounting instructions, see that component's Product Specifications sheet.



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