

PROGRAMMING FUNCTIONS

A-LEVEL FUNCTIONS

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B-LEVEL FUNCTIONS

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- 23 Special Switch Tracking Mode
- 29 Occupancy Expiration of Manual Off
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- 31 High End Trim
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NOTE:

Additional settings can be configured via **SensorView** software.

A-LEVEL PROGRAMMING INSTRUCTIONS

PLEASE READ ALL 4 STEPS BEFORE PROGRAMMING

1. Enter A-Level programming mode by pressing button the number of times as the desired function number from *A-Level Detailed Function Tables* below (e.g., press 5 times for function 5, *Switch Tracking Channel*).
2. The selected function's current setting is indicated via LED flashes (e.g., 2 flashes for *Switch Tracking - Channel 2*). To change, proceed to step 3 before it repeats 3 times.
3. While the sensor flashes back current setting, press the button the number of times for the new desired setting as indicated in the detailed table (e.g., press 3 times for *Switch Tracking - Channel 3*). Sensor flashes new setting as confirmation.
4. Programming mode exits automatically when setting sequence flashes back 3 times without interruption.

A-LEVEL DETAILED FUNCTION TABLES

2 = Lumen Compensation

1 Disabled (n100)	2 Enabled (n80)
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3 = Idle Time Until Dim

1 30 sec	3 5 min	5 10 min	7 15 min	9 20 min
2 2.5 min	4 7.5* min	6 12.5 min	8 17.5 min	

5 = Switch Tracking Channel

1 - 16 (e.g., 1 = Channel 1*; 2 = Channel 2; etc.)
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6 = Follow Photocell Mode

1 Disable*	2 Enabled (Neg)	3 Enabled (Pos/Neg)
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7 = Secondary Zone Dimming Offset

1 -100%	5 -60%	9 -20%	13 20%	17 60%	21 100%
2 -90%	6 -50%	10 -10%	14 30%	18 70%	
3 -80%	7 -40%	11 0% *	15 40%	19 80%	
4 -70%	8 -30%	12 10%	16 50%	20 90%	

*Indicates Factory Default

8 = WallPod Dimming Adjustments

1 Permanent*	2 Temporary	3 Photocell Temp. Override
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9 = Restore Factory Defaults

1 Maintain Current*	2 Restore Defaults
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19 = Dimming Rate

1 5 min	2 15 sec	3 5 sec*	4 2 sec	5 Instant
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23 = Occupied Bright Level

1 1%	3 20%	5 40%	7 60%	9 80%	11 100%*
2 10%	4 30%	6 50%	8 70%	10 90%	

24 = Unoccupied Dim Level

1 1%*	3 20%	5 40%	7 60%	9 80%	11 100%
2 10%	4 30%	6 50%	8 70%	10 90%	

B-LEVEL PROGRAMMING INSTRUCTIONS

PLEASE READ ALL 4 STEPS BEFORE PROGRAMMING

1. Enter B-Level programming mode by holding down button until status LED flashes rapidly, release, hold down until rapid flash again, release, then immediately enter programming function as described in step 2.
2. Enter a programming function by pressing button the number of times as the desired function number from the *B-Level Detailed Function Tables* below (e.g., press twice for function 2, *Semi-Auto Grace Period*).
3. Status LED will flash back the selected function's current setting (e.g., 3 flashes for 15 sec). To change setting, proceed to step 3 before flash back sequence repeats 3 times. To exit the current function or to change to a different function, wait for sequence to repeat 3 times and return to step 1.
4. Press button the number of times indicated in the particular function's detailed table for the new desired setting (e.g., press 1 time for 0 sec). As confirmation of setting change, status LED flashes back the new setting 3 times before exiting.

*Indicates Factory Default

B-LEVEL DETAILED FUNCTION TABLES

1 = Name Unit w/ Number

1 1	3 3	5 5	7 7	9 9
2 2	4 4	6 6	8 8	10 Unassigned*

2 = Manual On (Semi-Auto) Grace Period

1 0 sec	3 15 sec*
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3 = Predictive Exit Time

1 5 sec	3 7 sec	5 9 sec	7 15 sec	9 30 sec
2 6 sec	4 8 sec	6 10 sec*	8 20 sec	

4 = Predictive Grace Time

1 0 sec	3 10 sec	5 30 sec	7 50 sec
2 5 sec*	4 20 sec	6 40 sec	8 60 sec

11 = Occupancy Tracking

1 Disable	2 Enable*
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12 = Occupancy Tracking Channel

1 - 16 (e.g., 1 = Channel 1*; 2 = Channel 2; etc.)
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13 = Photocell Tracking

1 Disable	2 Enable*
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14 = Photocell Tracking Channel

1 - 16 (e.g., 1 = Channel 1*; 2 = Channel 2; etc.)
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15 = Switch Tracking

1 Disable	2 Enable*
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*Indicates Factory Default

17 = Forced Override

1 Disabled (not forced)*	2 Override On	3 Override Off
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18 = Special Operating Mode

1 Normal*	5 Predictive Off
2 Manual On	6 Manual to Override On
3 Auto to Override On	7 Manual to Normal
4 Manual to Full Auto	

22 = Maintain Dim Level When Vacant

1 No*	2 Yes
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23 = Special Switch Tracking Mode

1 Disable*	2 Ignore Offs	3 Ignore Ons	4 Ignore Ons & Offs
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29 = Occupancy Expiration of Manual Off

1 Disabled*	2 Enabled
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30 = Timed Expiration of Manual Off

1 Disabled*	2 Enabled
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31 = High End Trim**

1 0.7V	3 2V	5 4V	7 6V	9 8V	11 10V
2 1V	4 3V	6 5V	8 7V	10 9V	

32 = Low End Trim**

1 0.7V	3 2V	5 4V	7 6V	9 8V	11 10V
2 1V	4 3V	6 5V	8 7V	10 9V	

*Indicates factory default unless dependent on model number.

** Setting precision of 0.1V is available via SensorView. Device status LED blinks out current value rounded to nearest selection above.



PROGRAMMING INSTRUCTIONS for nLIGHT ENABLED DIGITAL LUMINAIRES

nLight Device Series:

nIO LED(G)

nEIO LED(G)

nIO EZ

nEPS 60 IO EZ

nPS 80 EZ

Technical Support: 1.800.535.2465

A-LEVEL FUNCTION DEFINITIONS

- 2 LUMEN COMPENSATION**
An algorithm that tracks the LED luminaire's runtime and manages its light output to maintain constant lumen output over the system life.
- 3 IDLE TIME UNTIL DIM**
The length of time after last detected occupancy that the luminaire will reduce lighting level to *Unoccupied Dim Level* setting.
- 5 SWITCH TRACKING CHANNEL**
The channel on which the luminaire receives switch information.
- 6 FOLLOW PHOTOCCELL MODE**
Directs the luminaire relative to a dimming photocell in its zone.
- 7 SECONDARY ZONE DIMMING OFFSET**
Percentage difference of unit's dimming level from its connected zone's primary dimming level (Function 6 must be enabled).
- 8 WALLPOD DIMMING ADJUSTMENTS**
Defines whether user dimming adjustments are maintained after lights are cycled, whether they revert to preset levels, or whether they temporarily disable a connected dimming photocell (until lights cycle).
- 9 RESTORE FACTORY DEFAULTS**
Returns all functions to original settings.
- 19 DIMMING RATE**
The elapsed time over which changes to dimming levels initiated via global or local profile scenes are implemented. Note: dimming level changes initiated via global or local preset scenes are always immediate.
- 23 OCCUPIED BRIGHT LEVEL**
The percentage of the controllable dimming range up to which lights will rise when occupancy is detected or the luminaire is overridden on. Adjusting the dim level using a WallPod changes this setting. When set at 100%, light level will match *High End Trim* level. See function B31.
- 24 UNOCCUPIED DIM LEVEL**
The percentage of controllable dimming range to which lights manually or automatically dim to, once the *Idle Time Until Dim* timer expires. When set at 1%, light level will match *Low End Trim* level. See function B32.

B-LEVEL FUNCTION DEFINITIONS

- 1 NAME UNIT w/ NUMBER**
Applies a number to the default name visible in SensorView (useful during commissioning)
- 2 MANUAL ON (SEMI-AUTO) GRACE PERIOD**
When in Manual On (Semi-Auto) mode (Function B-18), the time period after lights are automatically turned off that they can be reactivated with movement
- 3 PREDICTIVE EXIT TIME** (valid for *Predictive Off* mode only)
The time period after manually switching lights off for the occupant to leave the space
- 4 PREDICTIVE GRACE TIME** (valid for *Predictive Off* mode only)
The time period after the Predictive Exit Time that the sensor rescans the room for remaining occupants
- 11 OCCUPANCY TRACKING**
Indicates whether luminaire will react to occupancy information
- 12 OCCUPANCY TRACKING CHANNEL**
The channel on which luminaire receives occupancy information
- 13 PHOTOCCELL TRACKING**
Indicates whether luminaire will react to photocell information
- 14 PHOTOCCELL TRACKING CHANNEL**
The channel on which luminaire receives photocell information
- 15 SWITCH TRACKING**
Indicates whether luminaire will react to switch information
- 17 FORCED OVERRIDE**
Indicates whether luminaire is forced to max level or off

B-LEVEL FUNCTION DEFINITIONS (cont.)

- 18 SPECIAL OPERATING MODE**
Unique defined behaviors of luminaire:
- NORMAL**
Operating Mode where occupancy sensors are capable of turning lights both on/off
- SEMI-AUTO (MANUAL ON)**
Special Mode that requires the occupant to manually turn the lights on, while having them turn off automatically by a sensor
- AUTO TO OVERRIDE ON**
Special Mode where lights are turned on initially by occupant detection but remain in the *Override On* state
- MANUAL ON TO FULL AUTO**
Special Mode that initially requires the occupant to manually turn on the lights, after which the sensor assumes full on/off control
- PREDICTIVE OFF**
When lights are switched off, sensor determines whether occupants remain or left the room, so as to leave the lights in either the *Override Off* or *Auto On* state
- MANUAL TO TIMED OVERRIDE ON**
Special Mode where lights are initially turned on manually but remain in the *Override On* state for a pre-determined period (*Timed Override Delay*)
- MANUAL TO NORMAL**
Special Mode where lights are initially turned on manually but remain in the *Normal State* (enabling auto-dimming) for a pre-determined period (*Timed Override Delay*)
- 22 MAINTAIN DIM LEVEL WHEN VACANT**
Prevents lights from turning fully off once in unoccupied state

B-LEVEL FUNCTION DEFINITIONS (cont.)

- 23 SPECIAL SWITCH TRACKING MODE**
Defines unique behavior related to how luminaire responds to particular switch information.
- 29 OCCUPANCY EXPIRATION of MANUAL OFF**
When enabled, operation of device will revert from a push-button triggered override off state to Normal mode once the *Occupancy Time Delay* (adjustable via SensorView or push-button) expires. Not used with Manual On operating modes.
- 30 TIMED EXPIRATION of MANUAL OFF**
When enabled, operation of device will revert from a push-button triggered override off state to Normal mode once the *Timed Override Delay* (adjustable via SensorView) expires. Not used with Manual On operating modes.
- 31 HIGH END TRIM**
Maximum voltage level of the device's dimming output. Commonly used for task tuning where absolute light level is not to be increased via a Wallpod or scene. When output is at high end trim, the reported control percentage will be 100%. Corresponding lumen output % is dependent on ballast/driver capabilities. *Raising setting above factory default is not recommended as default is optimized to driver control range.*
- 32 LOW END TRIM**
Minimum voltage level of the device's active dimming range. Level can not be reduced via a WallPod or scene. Note, voltage level may go below this level when device is given an OFF command (for example when controlling LED drivers with sleep mode). When output is at low end trim, the reported control percentage will be 1%. Corresponding lumen output % is dependent on ballast/driver capabilities. *Lowering setting below factory default is not recommended as default is optimized to driver control range.*