

LIMITED 2 YEAR WARRANTY AND EXCLUSIONS

Leviton warrants to the original consumer purchaser and not for the benefit of anyone else that this product at the time of its sale by Leviton is free of defects in materials and workmanship under normal and proper use for two years from the purchase date. Leviton's only obligation is to correct such defects by repair or replacement, at its option, if within such two year period the product is returned prepaid, with proof of purchase date, and a description of the problem to **Leviton Manufacturing Co., Inc., Att: Quality Assurance Department, 59-25 Little Neck Parkway, Little Neck, New York 11362-2591 (In Canada send to Leviton Mfg. of Canada Ltd., 165 Hymus Blvd., Point Claire, (Quebec), Canada H9R 1E9)**. This warranty excludes and there is disclaimed liability for labor for removal of this product or reinstallation. This warranty is void if this product is installed improperly or in an improper environment, overloaded, misused, opened, abused, or altered in any manner, or is not used under normal operating conditions or not in accordance with any labels or instructions. There are no other or implied warranties of any kind, including merchantability and fitness for a particular purpose, but if any implied warranty is required by the applicable jurisdiction, the duration of any such implied warranty, including merchantability and fitness for a particular purpose, is limited to two years. Leviton is not liable for incidental, indirect, special, or consequential damages, including without limitation, damage to, or loss of use of, any equipment, lost sales or profits or delay or failure to perform this warranty obligation. The remedies provided herein are the exclusive remedies under this warranty, whether based on contract, tort or otherwise.

For Technical Assistance Call:
1-800-824-3005 (U.S.A. Only)
1 800 405-5320 (Canada Only)
www.leviton.com



DHC Toscana Lighting Appliance Deluxe Controller / Programmer

Cat. No. HCCPG

Users Manual



DI-000-HCCPG-00A



<u>STATE/CITY</u>	<u>LONG</u>	<u>LAT</u>	<u>STATE/CITY</u>	<u>LONG</u>	<u>LAT</u>
VERMONT			Waukesha	43° N	88° W
Barre	44° N	73° W	Wausau AP	45° N	90° W
Burlington AP (S)	44° N	73° W			
Rutland	44° N	73° W	WYOMING		
VIRGINIA			Casper AP	43° N	106° W
Charlottesville	38° N	79° W	Cheyenne	41° N	105° W
Danville AP	37° N	79° W	Cody AP	45° N	109° W
Fredericksburg	38° N	77° W	Evanston	41° N	111° W
Harrisonburg	38° N	79° W	Lander AP (S)	43° N	109° W
Lynchburg AP	37° N	79° W	Laramie AP (S)	41° N	106° W
Norfolk AP	37° N	76° W	Newcastle	44° N	104° W
Petersburg	37° N	78° W	Rawlins	42° N	107° W
Richmond AP	37° N	77° W	Rock Springs AP	42° N	109° W
Roanoke AP	37° N	80° W	Sheridan AP	45° N	107° W
Staunton	38° N	79° W	Torrington	42° N	104° W
Winchester	39° N	78° W			
WASHINGTON					
Aberdeen	47° N	124° W			
Bellingham AP	49° N	123° W			
Bremerton	48° N	123° W			
Ellensburg AP	47° N	121° W			
Everett, Paine AFB	48° N	122° W			
Kennewick	46° N	119° W			
Longview	46° N	123° W			
Moses Lake, Larson AFB	47° N	119° W			
Olympia AP	47° N	123° W			
Port Angeles	48° N	123° W			
Seattle-Boeing Field	48° N	122° W			
Seattle Co (S)	48° N	122° W			
Seattle-Tacoma AP (S)	47° N	122° W			
Spokane AP (S)	48° N	118° W			
Tacoma, McChord AFB	47° N	122° W			
Walla Walla AP	46° N	118° W			
Wenatchee	47° N	120° W			
Yakima AP	47° N	121° W			
WEST VIRGINIA					
Beckley	38° N	81° W			
Bluefield AP	37° N	81° W			
Charleston AP	38° N	82° W			
Clarksburg	39° N	80° W			
Elkins AP	39° N	80° W			
Huntington Co	38° N	82° W			
Martinsburg AP	39° N	78° W			
Morgantown AP	40° N	80° W			
Parkersburg Co	39° N	82° W			
Wheeling	40° N	81° W			
WISCONSIN					
Appleton	44° N	88° W			
Ashland	47° N	91° W			
Beloit	42° N	89° W			
Eau Claire AP	45° N	91° W			
Fond Du Lac	44° N	88° W			
Green Bay AP	44° N	88° W			
La Crosse AP	44° N	91° W			
Madison AP (S)	43° N	89° W			
Manitowoc	44° N	87° W			
Marinette	45° N	88° W			
Milwaukee AP	43° N	88° W			
Racine	43° N	88° W			
Sheboygan	44° N	88° W			
Stevens Point	44° N	90° W			

Table of Contents

<u>STATE/CITY</u>	<u>LONG</u>	<u>LAT</u>	<u>STATE/CITY</u>	<u>LONG</u>	<u>LAT</u>
PENNSYLVANIA			Nashville AP (S)	36° N	87° W
Allentown AP	41° N	75° W	Tullahoma	35° N	86° W
Altoona Co	40° N	78° W	TEXAS		
Butler	41° N	80° W	Abilene AP	32° N	100° W
Chambersburg	40° N	78° W	Alice AP	28° N	98° W
Erie AP	42° N	80° W	Amarillo AP	35° N	101° W
Harrisburg AP	40° N	77° W	Austin AP	30° N	98° W
Johnstown	40° N	79° W	Bay City	29° N	96° W
Lancaster	40° N	76° W	Beaumont	30° N	94° W
Meadville	42° N	80° W	Beeville	28° N	98° W
New Castle	41° N	80° W	Big Spring AP (S)	32° N	101° W
Philadelphia AP	40° N	75° W	Brownsville AP (S)	26° N	97° W
Pittsburgh AP	40° N	80° W	Brownwood	32° N	99° W
Pittsburgh Co	40° N	80° W	Bryan AP	31° N	97° W
Reading Co	40° N	76° W	Corpus Christi AP	28° N	97° W
Scranton/Wilkes-Barre	41° N	76° W	Corsicana	32° N	96° W
State College (S)	41° N	78° W	Dallas AP	33° N	97° W
Sunbury	41° N	77° W	Del Rio, Laughlin AFB	29° N	101° W
Uniontown	40° N	80° W	Denton	33° N	97° W
Warren	42° N	79° W	Eagle Pass	29° N	101° W
West Chester	40° N	76° W	El Paso AP (S)	32° N	106° W
Williamsport AP	41° N	77° W	Fort Worth AP (S)	33° N	97° W
York	40° N	77° W	Galveston AP	29° N	95° W
RHODE ISLAND			Greenville	33° N	96° W
Newport (S)	41° N	71° W	Harlingen	26° N	98° W
Providence AP	42° N	71° W	Houston AP	30° N	95° W
SOUTH CAROLINA			Houston Co	30° N	95° W
Anderson	34° N	83° W	Huntsville	31° N	96° W
Charleston AFB (S)	33° N	80° W	Killeen, Robert Gray AAF	31° N	98° W
Charleston Co	33° N	80° W	Lamesa	33° N	102° W
Columbia AP	34° N	81° W	Laredo AFB	28° N	99° W
Florence AP	35° N	80° W	Longview	32° N	95° W
Georgetown	33° N	79° W	Lubbock AP	34° N	102° W
Greenville AP	35° N	82° W	Lufkin AP	31° N	95° W
Greenwood	35° N	82° W	Mcallen	26° N	98° W
Orangeburg	33° N	81° W	Midland AP (S)	32° N	102° W
Rock Hill	35° N	81° W	Mineral Wells AP	33° N	98° W
Spartanburg AP	35° N	82° W	Palestine Co	32° N	96° W
Sumter, Shaw AFB	34° N	80° W	Pampa	36° N	101° W
SOUTH DAKOTA			Pecos	31° N	103° W
Aberdeen AP	45° N	98° W	Plainview	34° N	102° W
Brookings	44° N	97° W	Port Arthur AP	30° N	94° W
Huron AP	44° N	98° W	Goodfellow AFB	31° N	100° W
Mitchell	44° N	98° W	San Antonio AP (S)	30° N	98° W
Pierre AP	44° N	100° W	Sherman, Perrin AFB	34° N	97° W
Rapid City AP (S)	44° N	103° W	Snyder	33° N	101° W
Sioux Falls AP	44° N	97° W	Temple	31° N	97° W
Watertown AP	45° N	97° W	Tyler AP	32° N	95° W
Yankton	43° N	97° W	Vernon	34° N	99° W
TENNESSEE			Victoria AP	29° N	97° W
Athens	35° N	85° W	Waco AP	32° N	97° W
Bristol-Tri City AP	36° N	82° W	Wichita Falls AP	34° N	98° W
Chattanooga AP	35° N	85° W	UTAH		
Clarksville	37° N	87° W	Cedar City AP	38° N	113° W
Columbia	36° N	87° W	Logan	42° N	112° W
Dyersburg	36° N	89° W	Moab	39° N	110° W
Greenville	36° N	83° W	Ogden AP	41° N	112° W
Jackson AP	36° N	89° W	Price	40° N	111° W
Knoxville AP	36° N	84° W	Provo	40° N	112° W
Memphis AP	35° N	90° W	Richfield	39° N	112° W
Murfreesboro	35° N	86° W	St George Co	37° N	114° W
			Salt Lake City AP (S)	41° N	112° W
			Vernal AP	40° N	110° W

FEATURES	2
INTRODUCTION	2
SPECIFICATIONS	3
INSTALLATION INSTRUCTIONS	3
PROGRAMMING	9
Control Buttons	9
TO PROGRAM	10
Setup Wizard	10
IR Wizard	13
Scene Wizard	15
Trigger Wizard	17
Macro Wizard	20
OPERATION	22
TO OPERATE	22
TROUBLESHOOTING	26

List of Illustrations and Tables

BASIC PROGRAMMING FLOW CHART	5
PROGRAMMER CONTROLS	6
PROGRAMMER INSTALLATION	7
WIRING DIAGRAM	8
LONGITUDE / LATITUDE CHART	27

FEATURES

- Controls up to 256 devices in a DHC home system
- IntelliSense enabled
- Automatically turn ON/OFF lights at dusk and/or dawn (celestial clock)
- Create up to 64 timed events which can reoccur year after year
- Each timed event can be part of up to 8 time schedules and that enable the home “personality”
- Create up to 64 whole house lighting scenes to create lighting moods
- Access any of the 64 scenes from the from the Programmer front panel (8 at any one time)
- Access any 7 of the scenes remotely using Leviton Controller, Cat. No. HCCS7 (optional)
- Access any of the scenes using 16 learned Infra Red codes utilizing any standard IR Remote
- RS-232 port for connectivity to PC’s and dedicated controllers using optional connectivity kit
- Real Time clock retains correct time, with accuracy of 15 seconds, in absence of power typically for 2 weeks
- Celestial Clock guaranteed 15 minute accuracy for any North American (US, Canada, Mexico) locality

INTRODUCTION

The **DHC Toscana Lighting Appliance Deluxe Controller/ Programmer, Cat. No. HCCPG**, adds a new level of Scene Lighting capability to the DHC network. The Programmer is a compact unit that operates on 120V AC, requiring Line and Neutral connections and mounts directly into a standard 4 gang electrical box. It allows One Touch access to whole house lighting scenes from anywhere in the house using additional DHC Controllers.

The unit normally displays the date and time in it’s Main Screen, and by simply pressing the applicable scene buttons, end-users can control their preprogrammed lighting. The Programmer can send commands up to 256 individual lighting and appliance loads.

The Programmer provides the capability to program up to 64 customized Lighting Scenes across 256 different house codes. With Scene Lighting, selected lighting loads are programmed to turn ON at desired brightness levels or OFF when required; in either a

STATE/CITY	LONG	LAT	STATE/CITY	LONG	LAT
NEW YORK			OHIO		
Albany AP (S)	43° N	74° W	Akron-Canton AP	41° N	81° W
Albany Co	43° N	74° W	Ashtabula	42° N	81° W
Auburn	43° N	77° W	Athens	39° N	82° W
Batavia	43° N	78° W	Bowling Green	41° N	84° W
Binghamton AP	42° N	76° W	Cambridge	40° N	82° W
Buffalo AP	43° N	79° W	Chillicothe	39° N	83° W
Cortland	43° N	76° W	Cincinnati Co	39° N	85° W
Dunkirk	42° N	79° W	Cleveland AP (S)	41° N	82° W
Elmira AP	42° N	77° W	Columbus AP (S)	40° N	83° W
Geneva (S)	43° N	77° W	Dayton AP	40° N	84° W
Glens Falls	43° N	74° W	Defiance	41° N	84° W
Gloversville	43° N	74° W	Findlay AP	41° N	84° W
Hornell	42° N	78° W	Fremont	41° N	83° W
Ithaca (S)	42° N	76° W	Hamilton	39° N	85° W
Jamestown	42° N	79° W	Lancaster	40° N	83° W
Kingston	42° N	74° W	Lima	41° N	84° W
Lockport	43° N	79° W	Mansfield AP	41° N	83° W
Massena AP	45° N	75° W	Marion	41° N	83° W
Newburgh, Stewart AFB	41° N	74° W	Middletown	40° N	84° W
NYC-Central Park (S)	41° N	74° W	Newark	40° N	82° W
NYC-Kennedy AP	41° N	74° W	Norwalk	41° N	83° W
NYC-La Guardia AP	41° N	74° W	Portsmouth	39° N	83° W
Niagara Falls AP	43° N	80° W	Sandusky Co	41° N	83° W
Olean	42° N	79° W	Springfield	40° N	84° W
Oneonta	43° N	75° W	Steubenville	40° N	81° W
Oswego Co	43° N	77° W	Toledo AP	42° N	84° W
Plattsburg AFB	45° N	73° W	Warren	41° N	81° W
Poughkeepsie	42° N	74° W	Wooster	41° N	82° W
Rochester AP	43° N	78° W	Youngstown AP	41° N	81° W
Rome, Griffiss AFB	43° N	75° W	Zanesville AP	40° N	82° W
Schenectady (S)	43° N	74° W			
Suffolk County AFB	41° N	73° W	OKLAHOMA		
Syracuse AP	43° N	76° W	Ada	35° N	97° W
Utica	43° N	75° W	Altus AFB	35° N	99° W
Watertown	44° N	76° W	Ardmore	34° N	97° W
			Bartlesville	37° N	96° W
NORTH CAROLINA			Chickasha	35° N	98° W
Asheville AP	35° N	83° W	Enid, Vance AFB	36° N	98° W
Charlotte AP	35° N	81° W	Lawton AP	35° N	98° W
Durham	36° N	79° W	McAlester	35° N	96° W
Elizabeth City AP	36° N	76° W	Muskogee AP	36° N	95° W
Fayetteville, Pope AFB	35° N	79° W	Norman	35° N	97° W
Goldsboro, Seymour-Johnson	35° N	78° W	Oklahoma City AP (S)	35° N	98° W
Greensboro AP (S)	36° N	80° W	Ponca City	37° N	97° W
Greenville	36° N	77° W	Seminole	35° N	97° W
Henderson	36° N	78° W	Stillwater (S)	36° N	97° W
Hickory	36° N	81° W	Tulsa AP	36° N	96° W
Jacksonville	35° N	78° W	Woodward	37° N	100° W
Lumberton	35° N	79° W			
New Bern AP	35° N	77° W	OREGON		
Raleigh/Durham AP (S)	36° N	79° W	Albany	45° N	123° W
Rocky Mount	36° N	78° W	Astoria AP (S)	46° N	124° W
Wilmington AP	34° N	78° W	Baker AP	45° N	118° W
Winston-Salem AP	36° N	80° W	Bend	44° N	121° W
			Corvallis (S)	44° N	123° W
NORTH DAKOTA			Eugene AP	44° N	123° W
Bismarck AP (S)	47° N	101° W	Grants Pass	42° N	123° W
Devils Lake	48° N	99° W	Klamath Falls AP	42° N	122° W
Dickinson AP	47° N	103° W	Medford AP (S)	42° N	123° W
Fargo AP	47° N	97° W	Pendleton AP	46° N	119° W
Grand Forks AP	48° N	97° W	Portland AP	46° N	123° W
Jamestown AP	47° N	99° W	Portland Co	46° N	123° W
Minot AP	48° N	101° W	Roseburg AP	43° N	123° W
Williston	48° N	104° W	Salem AP	45° N	123° W
			The Dalles	46° N	121° W

<u>STATE/CITY</u>	<u>LONG</u>	<u>LAT</u>	<u>STATE/CITY</u>	<u>LONG</u>	<u>LAT</u>
NEBRASKA					
Duluth AP	47° N	92° W	Beatrice	40° N	97° W
Fairbault	44° N	93° W	Chadron AP	43° N	103° W
Fergus Falls	46° N	96° W	Columbus	41° N	97° W
International Falls AP	49° N	93° W	Fremont	41° N	96° W
Mankato	44° N	93° W	Grand Island AP	41° N	98° W
Minneapolis/St. Paul AP	45° N	94° W	Hastings	41° N	98° W
Rochester AP	44° N	92° W	Kearney	41° N	99° W
St. Cloud AP (S)	46° N	94° W	Lincoln Co (S)	41° N	97° W
Virginia	47° N	92° W	McCook	40° N	101° W
Willmar	45° N	93° W	Norfolk	42° N	97° W
Winona	44° N	92° W	North Platte AP (S)	41° N	101° W
MISSISSIPPI					
Biloxi—Keesler AFB	30° N	89° W	Omaha AP	41° N	96° W
Clarksdale	34° N	91° W	Scottsbluff AP	42° N	104° W
Columbus AFB	33° N	88° W	Sidney AP	41° N	103° W
Greenville AFB	34° N	91° W	NEVADA		
Greenwood	33° N	90° W	Carson City	39° N	120° W
Hattiesburg	31° N	89° W	Elko AP	41° N	116° W
Jackson AP	32° N	90° W	Ely AP (S)	39° N	115° W
Laurel	31° N	89° W	Las Vegas AP (S)	36° N	115° W
Mccomb AP	32° N	90° W	Lovelock AP	40° N	119° W
Meridian AP	32° N	89° W	Reno AP (S)	39° N	120° W
Natchez	32° N	91° W	Reno Co	39° N	120° W
Tupelo	34° N	89° W	Tonopah AP	38° N	117° W
Vicksburg Co	32° N	91° W	Winnemucca AP	41° N	118° W
MISSOURI					
Cape Girardeau	37° N	90° W	NEW HAMPSHIRE		
Columbia AP (S)	39° N	92° W	Berlin	44° N	71° W
Farmington AP	38° N	90° W	Claremont	43° N	72° W
Hannibal	40° N	91° W	Concord AP	43° N	71° W
Jefferson City	39° N	92° W	Keene	43° N	72° W
Joplin AP	37° N	94° W	Laconia	43° N	71° W
Kansas City AP	39° N	95° W	Manchester, Grenier AFB	43° N	71° W
Kirksville AP	40° N	93° W	Portsmouth, Pease AFB	43° N	71° W
Mexico	39° N	92° W	NEW JERSEY		
Moberly	39° N	92° W	Atlantic City CO	39° N	74° W
Poplar Bluff	37° N	90° W	Long Branch	40° N	74° W
Rolla	38° N	92° W	Newark AP	41° N	74° W
St. Joseph AP	40° N	95° W	New Brunswick	40° N	74° W
St. Louis AP	39° N	90° W	Paterson	41° N	74° W
St. Louis CO	39° N	91° W	Phillipsburg	41° N	75° W
Sikeston	37° N	90° W	Trenton Co	40° N	75° W
Sedalia—Whiteman AFB	39° N	94° W	Vineland	39° N	75° W
Sikeston	37° N	90° W	NEW MEXICO		
Springfield AP	37° N	93° W	Holloman AFB	33° N	106° W
MONTANA					
Billings AP	46° N	109° W	Albuquerque AP (S)	35° N	107° W
Bozeman	46° N	111° W	Artesia	33° N	104° W
Butte AP	46° N	112° W	Carlsbad AP	32° N	104° W
Cut Bank AP	49° N	112° W	Clovis AP	34° N	103° W
Glasgow AP (S)	48° N	107° W	Farmington AP	37° N	108° W
Glendive	47° N	105° W	Gallup	36° N	109° W
Great Falls AP (S)	47° N	111° W	Grants	35° N	108° W
Havre	49° N	110° W	Hobbs AP	33° N	103° W
Helena AP	47° N	112° W	Las Cruces	32° N	107° W
Kalispell AP	48° N	114° W	Los Alamos	36° N	106° W
Lewiston AP	47° N	109° W	Raton AP	37° N	104° W
Livingstown AP	46° N	110° W	Roswell, Walker AFB	33° N	105° W
Miles City AP	46° N	106° W	Santa Fe CO	36° N	106° W
Missoula AP	47° N	114° W	Silver City AP	33° N	108° W
			Socorro AP	34° N	107° W
			Tucumcari AP	35° N	104° W

single room or a group of rooms. Lighting Scenes can be preset for home theater viewing, dining, entertaining and a wide range of other activities. Lighting Scenes can be easily changed at any time by pressing the applicable scene button.

SPECIFICATIONS

Electrical

- Input:** 120VAC, 50/60Hz
- Power Consumption:** 3W
- Real Time Clock:** Accurate within 15 seconds per week, with or without power
Leap year compensation
Calculating of Sunrise and Sunset, given the correct latitude and longitude, to within 15 minutes.

Software

Programmer has been specified with sufficient permanent memory to hold:

- 64 Scenes
- 64 Macros
- 64 Triggers
- 8 Time schedules
- Each of the Scenes, Macros, and Triggers will have a user-defined name of up to 16 alphanumeric characters that will display on the LCD screen.

INSTALLATION INSTRUCTIONS

WARNING: TO BE INSTALLED AND/OR USED IN ACCORDANCE WITH APPROPRIATE ELECTRICAL CODES AND REGULATIONS.

WARNING: IF YOU ARE NOT SURE ABOUT ANY PART OF THESE INSTRUCTIONS, CONSULT A QUALIFIED ELECTRICIAN.

CAUTION: DISCONNECT POWER WHEN SERVICING FIXTURES OR CHANGING LAMPS.

TO INSTALL:

1. **WARNING:** TO AVOID FIRE, SHOCK, OR DEATH; **TURN OFF POWER** AT CIRCUIT BREAKER OR FUSE AND TEST THAT POWER IS OFF BEFORE WIRING!
2. Determine location for installation of Programmer.
3. Remove Front Door Frame assembly by gently lifting the bottom edge of the frame until it snaps off (**refer to Figure 2**). Swing the bottom edge away until the upper section is released.
4. Remove 3/8" (0.95 cm) of insulation from each circuit conductor. Make sure that ends of conductors are straight.
5. Connect conductors per **WIRING DIAGRAM** as follows: Insert conductors under appropriate terminal clamp and tighten screws to 7 in.-lbs. of torque.
6. Mount Programmer at the desired location using a 4-gang electrical box using appropriate screws per **Figure 2**.
7. Restore power at circuit breaker or fuse.
8. Check for power to the Programmer by verifying that the GREEN LCD on the front of the unit is ON and flashing.
9. If necessary, increase or decrease the contrast of the display by first removing the overlay by gently lifting and releasing tabs. Then, use a small screwdriver to slightly turn the adjustment until preferred contrast is achieved. To replace overlay, carefully insert lower tabs into front slots of frame and then bow overlay so that top tab slips into top slot (**refer to Figure 2**).
10. Reinstall the Front Door Frame assembly by aligning with unit. Carefully press the frame onto unit until it snaps into position. Press all edges to ensure that it is fully seated.

11. INSTALLATION IS COMPLETE.

STATE/CITY	LONG	LAT	STATE/CITY	LONG	LAT
Peru, Grissom AFB	41° N	86° W	Natchitoches	32° N	93° W
Richmond AP	40° N	85° W	New Orleans AP	30° N	90° W
Shelbyville	40° N	86° W	Shreveport AP (S)	32° N	94° W
South Bend AP	42° N	86° W			
Terre Haute AP	39° N	87° W	MAINE		
Valparaiso	42° N	87° W	Augusta AP	44° N	70° W
Vincennes	39° N	88° W	Bangor, Dow AFB	45° N	69° W
			Caribou AP (S)	47° N	68° W
			Lewiston	44° N	70° W
IOWA			Millinocket AP	46° N	69° W
Ames (S)	42° N	94° W	Portland (S)	44° N	70° W
Burlington AP	41° N	91° W	Waterville	45° N	70° W
Cedar Rapids AP	42° N	92° W			
Clinton	42° N	90° W	MARYLAND		
Council Bluffs	41° N	96° W	Baltimore AP	39° N	77° W
Des Moines AP	42° N	94° W	Baltimore Co	39° N	76° W
Dubuque	42° N	91° W	Cumberland	40° N	79° W
Fort Dodge	43° N	95° W	Frederick AP	40° N	78° W
Iowa City	42° N	92° W	Hagerstown	40° N	78° W
Keokuk	40° N	91° W	Salisbury (S)	38° N	75° W
Marshalltown	42° N	93° W			
Mason City AP	43° N	93° W	MASSACHUSETTS		
Newton	42° N	93° W	Boston AP	42° N	71° W
Ottumwa AP	41° N	92° W	Clinton	42° N	72° W
Sioux City AP	42° N	96° W	Fall River	42° N	71° W
Waterloo	43° N	92° W	Framingham	42° N	71° W
			Gloucester	43° N	71° W
KANSAS			Greenfield	42° N	72° W
Atchison	40° N	95° W	Lawrence	43° N	71° W
Chanute AP	38° N	95° W	Lowell	43° N	71° W
Dodge City AP (S)	38° N	100° W	New Bedford	42° N	71° W
El Dorado	38° N	97° W	Pittsfield AP	42° N	73° W
Emporia	38° N	96° W	Springfield, Westover AFB	42° N	73° W
Garden City AP	38° N	101° W	Taunton	42° N	71° W
Goodland AP	39° N	102° W	Worcester AP	42° N	72° W
Great Bend	38° N	99° W			
Hutchinson AP	38° N	98° W	MICHIGAN		
Liberal	37° N	101° W	Adrian	42° N	84° W
Manhattan, Ft Riley (S)	39° N	97° W	Alpena AP	45° N	83° W
Parsons	37° N	96° W	Battle Creek AP	42° N	85° W
Russell AP	39° N	99° W	Benton Harbor AP	42° N	86° W
Salina	39° N	98° W	Detroit	42° N	83° W
Topeka AP	39° N	96° W	Escanaba	46° N	87° W
Wichita AP	38° N	97° W	Flint AP	43° N	84° W
			Grand Rapids AP	43° N	86° W
KENTUCKY			Holland	43° N	86° W
Ashland	39° N	83° W	Jackson AP	42° N	84° W
Bowling Green AP	36° N	86° W	Kalamazoo	42° N	86° W
Corbin AP	37° N	84° W	Lansing AP	43° N	85° W
Covington AP	39° N	85° W	Marquette Co	47° N	87° W
Hopkinsville, Ft Campbell	37° N	88° W	Mt Pleasant	44° N	85° W
Lexington AP (S)	38° N	85° W	Muskegon AP	43° N	86° W
Louisville AP	38° N	86° W	Pontiac	43° N	83° W
Madisonville	37° N	87° W	Port Huron	43° N	82° W
Owensboro	38° N	87° W	Saginaw AP	44° N	84° W
Paducah AP	37° N	89° W	Sault Ste. Marie AP (S)	46° N	84° W
			Traverse City AP	45° N	86° W
LOUISIANA			Ypsilanti	42° N	84° W
Alexandria AP	31° N	92° W			
Baton Rouge AP	31° N	91° W	MINNESOTA		
Bogalusa	31° N	90° W	Albert Lea	44° N	93° W
Houma	30° N	91° W	Alexandria AP	46° N	95° W
Lafayette AP	30° N	92° W	Bemidji AP	48° N	95° W
Lake Charles AP (S)	30° N	93° W	Brainerd	47° N	94° W
Minden	33° N	93° W			
Monroe AP	33° N	92° W			

Figure 1 – Basic Programming Flow Chart

STATE/CITY	LONG	LAT	STATE/CITY	LONG	LAT
CONNECTICUT			HAWAII		
Bridgeport AP	41° N	73° W	Hilo AP (S)	20° N	155° W
Hartford, Brainard Field	42° N	73° W	Honolulu AP	21° N	158° W
New Haven AP	41° N	74° W	Kaneohe Bay MCAS	21° N	158° W
New London	41° N	72° W	Wahiawa	21° N	158° W
Norwalk	41° N	73° W			
Norwick	42° N	72° W	IDAHO		
Waterbury	42° N	73° W	Boise AP (S)	44° N	116° W
Windsor Locks, Bradley Fld	42° N	73° W	Burley	43° N	114° W
			Coeur D'Alene AP	48° N	117° W
DELAWARE			Idaho Falls AP	44° N	112° W
Dover AFB	39° N	75° W	Lewiston AP	46° N	117° W
Wilmington AP	40° N	76° W	Moscow	47° N	117° W
			Mountain Home AFB	43° N	116° W
DISTRICT OF COLUMBIA			Pocatello AP	43° N	113° W
Andrews AFB	38° N	76° W	Twin Falls AP (S)	42° N	114° W
Washington, National AP	39° N	77° W			
			ILLINOIS		
FLORIDA			Aurora	42° N	88° W
Belle Glade	27° N	81° W	Belleville, Scott AFB	39° N	90° W
Cape Kennedy AP	28° N	81° W	Bloomington	40° N	89° W
Daytona Beach AP	29° N	81° W	Carbondale	38° N	89° W
E Fort Lauderdale	26° N	80° W	Champaign/Urbana	40° N	88° W
Fort Myers AP	27° N	82° W	Chicago, Midway AP	42° N	88° W
Fort Pierce	27° N	80° W	Chicago, O'Hare AP	42° N	88° W
Gainesville AP (S)	30° N	82° W	Chicago Co	42° N	88° W
Jacksonville AP	30° N	82° W	Danville	40° N	88° W
Key West AP	25° N	82° W	Decatur	40° N	89° W
Lakeland Co (S)	28° N	82° W	Dixon	42° N	89° W
Miami AP (S)	26° N	80° W	Elgin	42° N	88° W
Miami Beach Co	26° N	80° W	Freeport	42° N	90° W
Ocala	29° N	82° W	Galesburg	41° N	90° W
Orlando AP	29° N	81° W	Greenville	39° N	89° W
Panama City, Tyndall AFB	30° N	86° W	Joliet	42° N	88° W
Pensacola Co	30° N	87° W	Kankakee	41° N	88° W
St. Augustine	30° N	81° W	La Salle/Peru	41° N	89° W
St. Petersburg	28° N	83° W	Macomb	40° N	91° W
Stanford	29° N	81° W	Moline AP	41° N	91° W
Sarasota	27° N	83° W	Mt Vernon	38° N	89° W
Tallahassee AP (S)	30° N	84° W	Peoria AP	41° N	90° W
Tampa AP (S)	28° N	83° W	Quincy AP	40° N	91° W
West Palm Beach AP	27° N	80° W	Rantoul, Chanute AFB	40° N	88° W
			Rockford	42° N	89° W
			Springfield AP	40° N	90° W
			Waukegan	42° N	88° W
GEORGIA			INDIANA		
Albany, Turner AFB	32° N	84° W	Anderson	40° N	86° W
Americus	32° N	84° W	Bedford	39° N	86° W
Athens	33° N	83° W	Bloomington	39° N	87° W
Atlanta AP (S)	34° N	84° W	Columbus, Bakalar AFB	39° N	86° W
Augusta AP	33° N	82° W	Crawfordsville	40° N	87° W
Brunswick	31° N	81° W	Evansville AP	38° N	88° W
Columbus, Lawson AFB	33° N	85° W	Fort Wayne AP	41° N	85° W
Dalton	35° N	85° W	Goshen AP	42° N	86° W
Dublin	32° N	83° W	Hobart	42° N	87° W
Gainesville	34° N	84° W	Huntington	41° N	85° W
Griffin	33° N	84° W	Indianapolis AP	40° N	86° W
LaGrange	33° N	85° W	Jeffersonville	38° N	86° W
Macon AP	33° N	84° W	Kokomo	40° N	86° W
Marietta, Dobbins AFB	34° N	85° W	Lafayette	40° N	86° W
Savannah	32° N	81° W	La Porte	42° N	87° W
Valdosta-Moody AFB	31° N	83° W	Marion	40° N	86° W
Waycross	31° N	82° W	Muncie	40° N	85° W

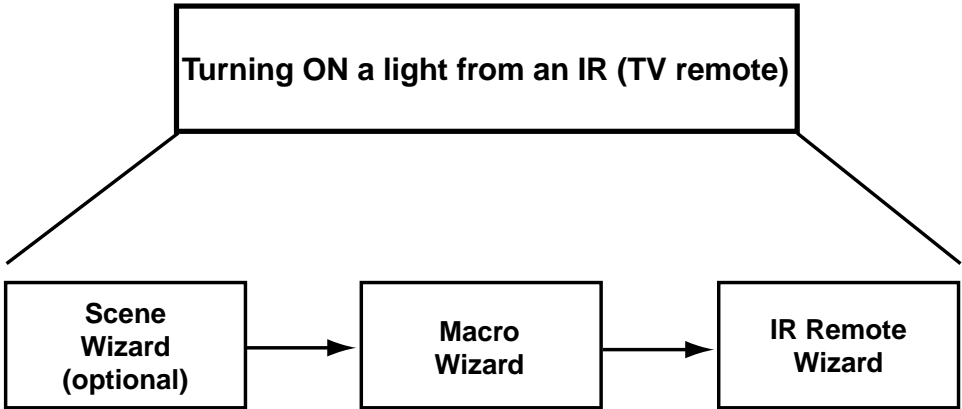
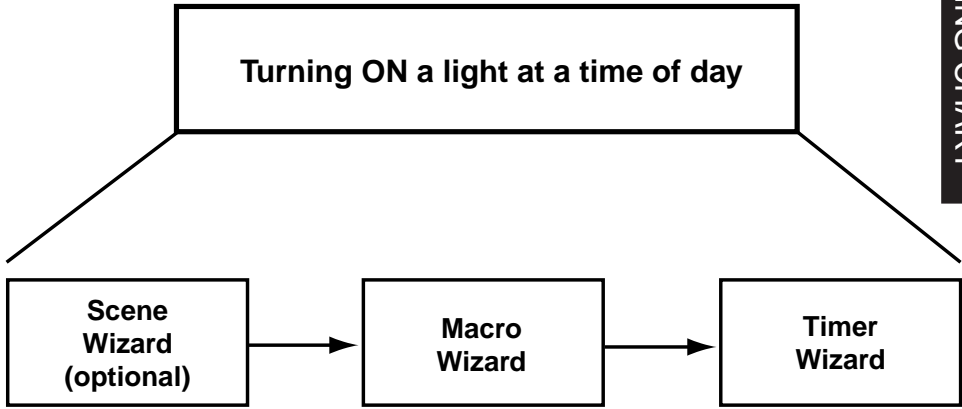
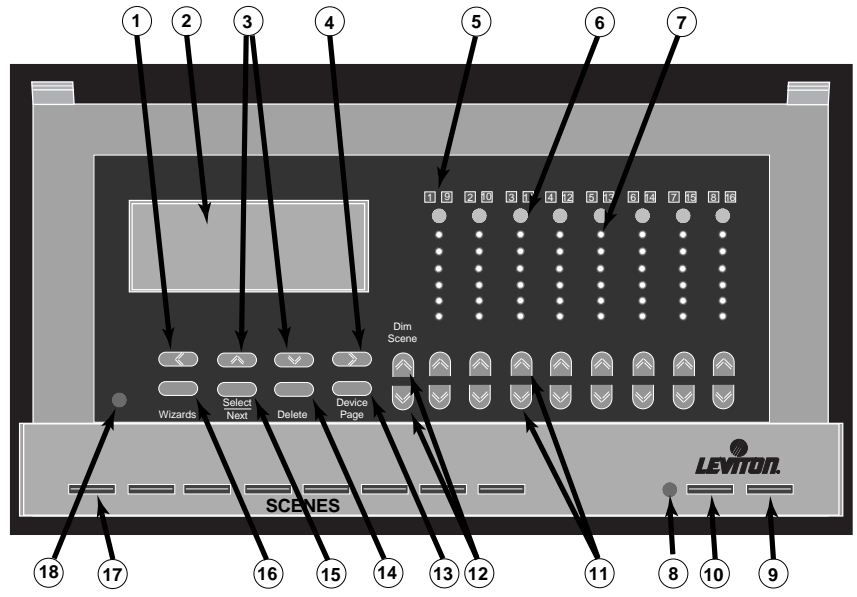


Figure 2 – Programmer Controls



- 1) Previous Field button (programming) / Displays Scene Bank (from main screen) (Pg. 10).
- 2) 2 Line x 16 Character LCD.
- 3) Change Option button (programming) / Displays House Code (from main screen) (Pg. 10).
- 4) Next Field button (programming) / Displays Scene Bank (from main screen) (Pg. 10).
- 5) Displays active devices 1-8 or 9-16 (Pg. 16).
- 6) Include/Exclude from Scene buttons (Pg. 9).
- 7) Displays brightness level of load (Pg. 16).
- 8) IR receiver (Pg. 13).
- 9) Last Scene OFF button (Pg. 9).
- 10) Personality/Hold button (Pg. 9).
- 11) Dim/Brighten a device when held / Single touch, Device & Level ID buttons (Pg. 9).
- 12) Dim Scene buttons (Pg. 9).
- 13) Device Page button (devices 1-8 or devices 9-16) (Pg. 9).
- 14) Delete button (Pg. 9).
- 15) Select/Next button (Pg. 9).
- 16) Wizards button (Pg. 9).
- 17) Scene Buttons (Pg. 9).
- 18) LCD Contrast Adjustment (under overlay).

TABLE 1 - LONGITUDE/LATITUDE

STATE/CITY	LONG	LAT	STATE/CITY	LONG	LAT
ALABAMA					
Alexander City	33° N	86° W	Eureka/Arcata AP	41° N	124° W
Anniston AP	34° N	86° W	Fairfield-Trafis AFB	38° N	122° W
Auburn	33° N	85° W	Fresno AP (S)	37° N	120° W
Birmingham AP	34° N	87° W	Hamilton AFB	38° N	122° W
Decatur	35° N	87° W	Laguna Beach	34° N	118° W
Dothan AP	31° N	85° W	Livermore	38° N	122° W
Florence AP	35° N	88° W	Lompoc, Vandenberg AFB	35° N	121° W
Gadsden	34° N	86° W	Long Beach AP	34° N	118° W
Huntsville AP	35° N	87° W	Los Angeles AP (S)	34° N	118° W
Mobile AP	31° N	88° W	Los Angeles CO (S)	34° N	118° W
Mobile Co	31° N	88° W	Merced-Castle AFB	37° N	121° W
Montgomery AP	32° N	86° W	Modesto	38° N	121° W
Selma-Craig AFB	32° N	88° W	Monterey	37° N	122° W
Talladega	33° N	86° W	Napa	38° N	122° W
Tuscaloosa AP	33° N	88° W	Needles AP	35° N	115° W
ALASKA					
Anchorage AP	61° N	150° W	Oakland AP	38° N	122° W
Barrow (S)	71° N	157° W	Oceanside	33° N	117° W
Fairbanks AP (S)	65° N	148° W	Ontario	34° N	118° W
Juneau AP	58° N	135° W	Oxnard	34° N	119° W
Kodiak	58° N	152° W	Palmdale AP	35° N	118° W
Nome AP	64° N	165° W	Palm Springs	34° N	117° W
ARIZONA					
Douglas AP	31° N	110° W	Pasadena	34° N	118° W
Flagstaff AP	35° N	112° W	Petaluma	38° N	123° W
Fort Huachuca AP (S)	32° N	110° W	Pomona Co	34° N	118° W
Kingman AP	35° N	114° W	Redding AP	41° N	122° W
Nogales	31° N	111° W	Redlands	34° N	117° W
Phoenix AP (S)	33° N	112° W	Richmond	38° N	122° W
Prescott AP	35° N	112° W	Riverside-March AFB (S)	34° N	117° W
Tucson AP (S)	32° N	111° W	Sacramento AP	39° N	121° W
Winslow AP	35° N	111° W	Salinas AP	37° N	122° W
Yuma AP	33° N	115° W	San Bernadino, Norton AFB	34° N	117° W
ARKANSAS					
Blytheville AFB	36° N	90° W	San Diego AP	33° N	117° W
Camden	34° N	93° W	San Fernando	34° N	118° W
El Dorado AP	33° N	93° W	San Francisco AP	38° N	122° W
Fayetteville AP	36° N	94° W	San Francisco Co	38° N	122° W
Fort Smith AP	35° N	94° W	San Jose AP	37° N	122° W
Hot Springs	34° N	93° W	San Louis Obispo	35° N	121° W
Jonesboro	36° N	91° W	Santa Ana AP	34° N	118° W
Little Rock AP (S)	35° N	92° W	Santa Barbara MAP	34° N	120° W
Pine Bluff AP	34° N	92° W	Santa Cruz	37° N	122° W
Texarkana AP	33° N	94° W	Santa Maria AP (S)	35° N	120° W
CALIFORNIA					
Bakersfield AP	35° N	119° W	Santa Monica CIC	34° N	118° W
Barstow AP	35° N	117° W	Santa Paula	34° N	119° W
Blythe AP	34° N	115° W	Santa Rosa	39° N	123° W
Burbank AP	34° N	118° W	Stockton AP	38° N	121° W
Chico	40° N	122° W	Ukiah	39° N	123° W
Concord	38° N	122° W	Visalia	36° N	119° W
Covina	34° N	118° W	Yreka	42° N	123° W
Crescent City AP	42° N	125° W	Yuba City	39° N	122° W
Downey	34° N	118° W	COLORADO		
El Cajon	33° N	117° W	Alamosa AP	37° N	106° W
El Cerrito AP (S)	33° N	116° W	Boulder	40° N	105° W
Escondido	33° N	117° W	Colorado Springs AP	39° N	105° W
COLORADO					
Bakersfield AP	35° N	119° W	Denver AP	40° N	105° W
Barstow AP	35° N	117° W	Durango	37° N	108° W
Blythe AP	34° N	115° W	Fort Collins	41° N	105° W
Burbank AP	34° N	118° W	Grand Junction AP (S)	39° N	109° W
Chico	40° N	122° W	Greeley	40° N	105° W
Concord	38° N	122° W	Lajunta AP	38° N	103° W
Covina	34° N	118° W	Leadville	39° N	106° W
Crescent City AP	42° N	125° W	Pueblo AP	38° N	104° W
Downey	34° N	118° W	Sterling	48° N	103° W
El Cajon	33° N	117° W	Trinidad	37° N	104° W
El Cerrito AP (S)	33° N	116° W			
Escondido	33° N	117° W			

TROUBLESHOOTING

If the DHC Programmer appears to be functioning improperly, proceed with the following steps:

1. Programmer does not turn ON

- Ensure that circuit breaker or fuse is turned ON.
- Confirm that the Programmer is wired exactly as shown in the Wiring Diagram.

2. Timer set up and nothing is happening

- Verify that you have reliable communications between the Programmer and the device you want to turn ON or OFF first by trying to actuate the device from the front panel.
- Check which “Home Personality” the Timer is included in. Check what the active “Home Personality” on the Programmer is. These commands need to match.
- Check which Macro is being executed by the Timer. Check that the Macro is programmed properly.

3. Light will not turn ON or OFF from the front panel

- Run Setup Wizard and set ALL the house codes used by your devices.
- Use the UP and DOWN buttons to page to the house code the device is on. Use the Device Page button to page zones 1-8 or 9-16. Double tap the appropriate device to turn it full ON or OFF.
- Ensure that the device you are trying to actuate is functioning properly. Check bulb or lamp.
- Leviton recommends an HCA02-10E repeater in all DHC installations for adequate signal strength.

4. Lights are turning ON and OFF by themselves

- One of the 64 Timers could be enabled. Go through all the timers to verify that one has not been inadvertently enabled.

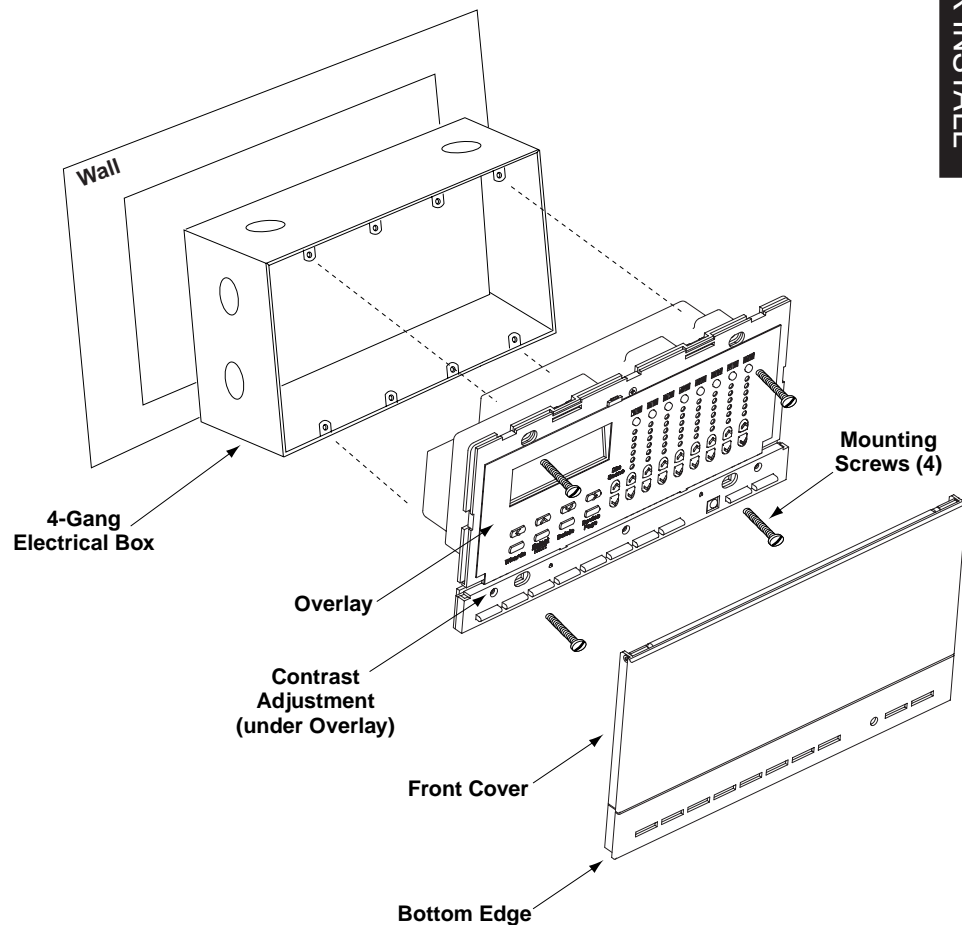
5. Backlight on LCD is blinking ON/OFF

- The Personalities button is in the HOLD mode. Press the Personalities button until it cycles to the desired event.

6. Programmer functions erratically in multiple Programmer installations

- Housecode Scene Echo is set to the ON position in more than one Programmer. Only one Programmer must have this option turned ON at any one time.

Figure 3 – Programmer Installation



Programmer Wiring Diagram

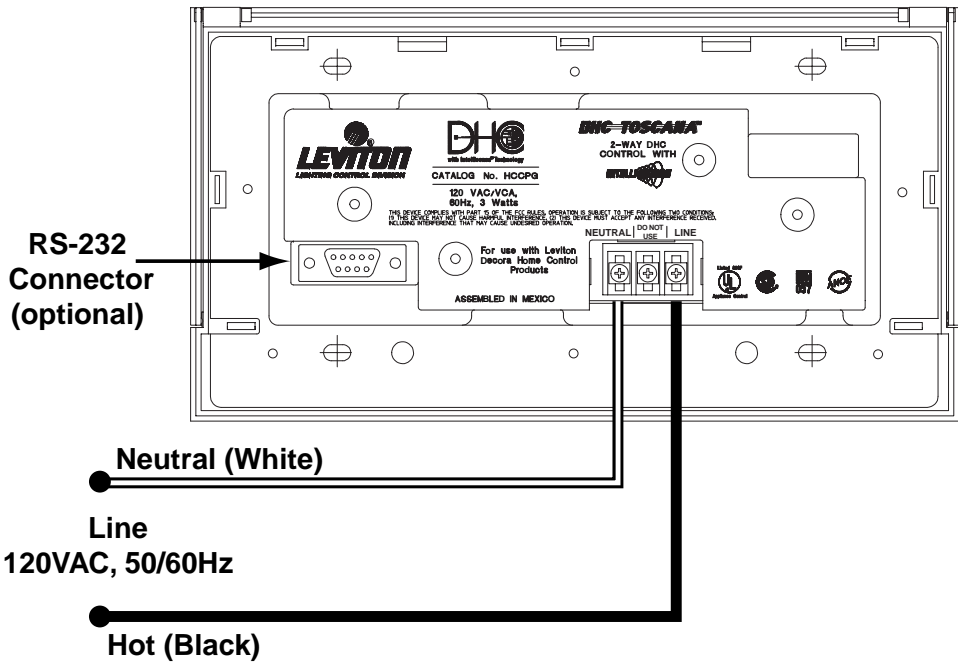


Figure 51 **HC=A Lvl=025% Living Room**

- Double tap the **UP** or **DOWN** **DIM/BRIGHT** buttons (refer to Figure 2) to adjust lighting level to minimum or maximum (refer to Figure 52).

Figure 52 **HC=A Lvl=100% Living Room**

NOTES:

- For 1-Way devices, the LED's may not accurately depict light set level due to the fact that the device may have been adjusted locally.
- For 2-Way devices, the LED's will match more closely the actual light level set.

Personality Button/ALL ON HOLD: Press the **PERSONALITY** button (refer to Figure 2) to select the desired timed program or put all events on HOLD (i.e., Party, Away, Vacation, Holiday, Special 1, Special 2, ALL ON HOLD, Everyday, Entertain) (refer to Figures 53 and 54).

NOTE: The LCD screen will flash indicating the ALL ON HOLD command is enabled. Selecting one of the other events will remove timer HOLD.

Figure 53 **Home Personality <Away>**

Figure 54 **Home Personality <ALL ON HOLD>**

Scene Banks: Pressing the **Left** (◀) and **Right** (▶) buttons (refer to Figure 2) while the LCD is in the MAIN SCREEN will change the Scene Bank accessible (refer to Figure 48).

Figure 48



Housecodes: Pressing the **UP** (▲) and **DOWN** (▼) buttons (refer to Figure 2) while the LCD is in the MAIN SCREEN will display the current Housecode (refer to Figure 49).

Figure 49



Dim Scene Buttons: Pressing the **UP** (▲) and **DOWN** (▼) **DIM SCENE** buttons (refer to Figure 2) while the LCD is in the MAIN SCREEN will incrementally adjust DIM/BRIGHT levels of the devices defined on the current Housecode of the last scene selected.

NOTE: The lighting level is not retained in memory once another scene is enabled. The last programmed light level will be restored.

Dim/Bright Buttons:

- Pressing the **UP** (▲) or **DOWN** (▼) **DIM/BRIGHT** buttons (refer to Figure 2) once while the LCD is in the MAIN SCREEN will display device information (refer to Figure 50).

Figure 50



- Press and hold the **UP** (▲) or **DOWN** (▼) **DIM/BRIGHT** buttons (refer to Figure 2) while the LCD is in the MAIN SCREEN to incrementally adjust DIM/BRIGHT levels of the devices defined in the scene (refer to Figure 51).

NOTE: The light level will adjust to setting when button is released.

PROGRAMMING

The Programmer allows for user friendly programming of various Scene Lighting settings. The Programmer is designed to send extended DHC code for scene capabilities to Leviton DHC devices, along with standard ON/OFF, dimming, and timed event programs.

NOTE: Pressing any button on the front panel at any time, will turn ON the backlight.

Control Buttons (refer to Figure 2):

With the cover closed, you can access the **SCENE**, **PERSONALITY**, and **LAST SCENE OFF** buttons. With the cover open, you can access the **LCD DISPLAY**, the **WIZARD**, **SELECT/NEXT**, **DELETE**, **DEVICE PAGE**, **DIM SCENE DIM/BRIGHT**, **DEVICE DIM/BRIGHT**, **DEVICE INCLUDE/EXCLUDE**, and **PROGRAMMING** buttons.

SCENES (1-64): Selects a new scene, and signals a preprogrammed set of lighting levels to fade in while the previously selected scene fades out. Named scenes will appear in the LCD when the button is pressed (i.e., Breakfast, Lunch, or Dinner).

PERSONALITY/ ALL ON HOLD: Gives user capability of grouping user defined time triggers and enabling any one group with One Touch control. Also allows all events to be put on HOLD.

LAST SCENE OFF: Turns last selected scene ALL OFF.

WIZARDS: Toggles between Home State screen on LCD and several programming screens (refer to Programming).

SELECT/NEXT: Advances programming steps.

DELETE: Deletes highlighted character when editing names.

DEVICE PAGE: Toggles between addresses 1-8 and 9-16.
DIM SCENE: One Touch control for dimming of prior set scene on one house code only.

INCLUDE/EXCLUDE: Adds and/or removes devices from a scene.

DIM/BRIGHT: Allows for manual control of setting percentage of light level for selected device.

TO PROGRAM:

Pressing the **WIZARDS** button (refer to **Figure 2**) on the front panel of the Programmer will help run through the Setup and Programming necessary to set desired lighting levels and timed events.

NOTE: Use the **PROGRAMMING ARROWS** to change characters (UP and DOWN) and move to the next or previous character (LEFT and RIGHT). Blank spaces can also be inserted to separate word when desired.

NOTE: Screen will time-out after 30 seconds of no activity and return to Main Screen.

Setup Wizard - Accessing and properly selecting the settings in this section is the first step in using this device. It provides basic settings that allow operational features to function properly. Press the **WIZARDS** button to access the Setup Wizard (refer to **Figure 3**).

Figure 3

Use ^, v or SEL
<Setup Wizard>

Date and Time: Press the **Select/ Next** button to access the Adjust Date-Time screen (refer to **Figure 4**). Enter the date by pressing the **Up** (▲) or **Down** (▼) and **Left** (◀) or **Right** (▶) **PROGRAMMING** buttons. Press the **Select/Next** button to save entry and proceed.

Figure 4

Adjust Date-Time
01/01/02 12:00PM

Daylights Saving: Press the **Up** (▲) or **Down** (▼) **PROGRAMMING** buttons to toggle between ON and OFF. Set to ON position if Daylight Savings is observed in your area. Set to the OFF position to disable setting (refer to **Figure 5**). Press the **Select/Next** button to save entry and proceed.

Figure 5

Daylight Savings
auto adjust On

Press and Hold any of the Scene Buttons for quick access to Scene Programming (name editing is not available in this mode) (refer to **Figure 2**). The Scene buttons will flash while in this mode. Pressing the **INCLUDE/EXCLUDE** buttons will toggle zones to be included or excluded from the scene (refer to **Figure 2**). The lighting level may also be adjusted by pressing **UP** (▲) or **DOWN** (▼) **DIM/BRIGHT** buttons (refer to **Figure 47**).

Figure 47

HC=A Lvl=050%
Living Room

HCCS7 Option - Each of the scenes can also be accessed from a HCCS7 DHC Scene Controller (optional). The HCCS7 becomes a remote keypad to the Programmer.

To use the HCCS7 as a remote access keypad for scenes, the house code and device code must be set up correctly first. The house code on the HCCS7 must be set to **any one** of the house codes that are set in the **Setup Wizard** of the Programmer. In the Programmer **Setup Wizard** the user specifies all the house codes being used in the system. The Programmer will ignore all house codes not set.

The device code on the HCCS7 must be set according to the **following table** to access each of the corresponding scene banks on the Programmer:

NOTE: The HCCS7 is limited in controlling only the first seven sequential scenes programmed on each of the eight scene banks.

Scene Bank Selected	Scenes Accessible	HCCS7 Device Code
1	1-8	1
2	9-16	3
3	17-24	5
4	25-32	7
5	33-40	9
6	41-48	11
7	49-56	13
8	57-64	15

Figure 45

**Macro Wizard
Finished!**

OPERATION

TO OPERATE:

The Programmer can execute any of 64 scenes. The scene is a set of presets across the maximum 256 DHC devices (16 house codes multiplied by 16 device codes). At any one time a bank of 8 scenes is assigned to the scene buttons across the bottom of the Programmer (refer to Figure 2). When Scene Bank one is active, the buttons execute the programming sequence of scenes one through eight. Scene Banks two through eight will assign the buttons to scenes nine through sixty-four (refer to following chart):

Scene Bank Selected	Scenes Accessible
1	1-8
2	9-16
3	17-24
4	25-32
5	33-40
6	41-48
7	49-56
8	57-64

Scene Buttons: Press any of the Scene Buttons located on the bottom of the Programmer to access the preprogrammed scenes (refer to Figure 2 and 46).

Figure 46

**Living Room
01/01/02 12:00PM**

Select Timezone: Press the Up (▲) or Down (▼) PROGRAMMING buttons to select the applicable Timezone. This will allow the celestial clock to calculate sunrise/set properly (refer to Figure 6). Press the **Select/Next** button to save entry and proceed.

Figure 6

**Select Timezone
Eastern Stndrd>**

Latitude/Longitude: Press the Up (▲) or Down (▼) and Left (◀) or Right (▶) PROGRAMMING buttons to set the applicable geographic location (refer to Table 1). This will allow accurate control through the Real Time Clock to programmed sunrise/sunset events within 15 minutes (refer to Figure 7). Press the **Select/Next** button to save entry and proceed.

Figure 7

**Latitude = 041 N
Longitude= 074 E**

Select Housecodes: Press the Up (▲) or Down (▼) PROGRAMMING buttons to select Housecodes (A-P). This also allows the deselection of previously selected codes. Note that when a code is selected, it will be displayed as upper case. Unused codes will be displayed as lower case. Press the UP (▲) or Down (▼) buttons to toggle between selected and non-selected codes (refer to Figure 8A). Select all the Housecodes in use in the DHC system. Press the **Select/Next** button to save entry and proceed.

Figure 8A

**Select Housecodes
Abcdefghijklmnop**

All housecode scene echo? (optional): Press the Up (▲) or Down (▼) PROGRAMMING buttons to turn ON or OFF (default setting) the two-way communication capability of multiple Programmer installations (refer to Figure 8B). In single Programmer installations, this option must be turned ON to allow transmission of scene commands to all setup housecodes. In multiple Programmer installations, only one Programmer must have this option turned ON. All additional Programmers must have this option turned OFF for proper operation.

Figure 8B

**All housecode
scene echo?<Off>**

Setup Devices: Press the Up  or Down  PROGRAMMING buttons to setup devices (refer to Figure 9).

If **NO** is selected, press the **Select/Next** button to save entry and return to the Main Screen. The Setup Wizard is now finished (refer to Figure 10).

Figure 9

**Setup Devices?
<YES> <NO>**

Figure 10

**Setup Wizard
Finished!**

If **YES** is selected, press the **Select/Next** button to save entry and proceed as follows (this section is for optional programming):



Use Device: Press the Up  or Down  PROGRAMMING buttons to select the desired device (i.e., A01-P16) (refer to Figure 11). Press the **Select/Next** button to save entry and proceed.

Figure 11

**Use Devices A01:
Device A01**





Edit name XXX: Press the Up  or Down  and Left  or Right  PROGRAMMING buttons to name device (i.e., Wall Sconce, XXX being selected device) (refer to Figure 12). Press the **Select/Next** button to save entry and proceed.

Figure 12

**Edit name A01:
Wall Sconce**





Macro to edit: Press the Up  or Down  and Left  or Right  PROGRAMMING buttons to select the desired Macro (01-64) (refer to Figure 41). Press the **Select/Next** button to save entry and proceed.

Figure 41

**Macro to edit
Macro 01**





Edit Macro name: Press the Up  or Down  and Left  or Right  PROGRAMMING buttons to name desired Macro (i.e., Turn Pool On) (refer to Figure 42). Press the **Select/Next** button to save entry and proceed.

Figure 42

**Edit Macro name
Pool Area All OFF**





Pick Command: Press the Up  or Down  and Left  or Right  PROGRAMMING buttons to Turn Device; ON, OFF or Scene (refer to Figure 43). Press the **Select/Next** button to save entry and proceed.

Figure 43

**Pick command
Turn Device OFF**





Use Device XXX: Press the Up  or Down  and Left  or Right  PROGRAMMING buttons to select the desired device for Macro (A01-A16, (XXX being selected device) (refer to Figure 44). Press the **Select/Next** button to save entry and return to the Main Screen. The Macro Wizard is now finished (refer to Figure 45).

Figure 44

**Use Device A01:
Device A01**

Add to Personality: Press the **Up** (▲) or **Down** (▼) and **Left** (◀) or **Right** (▶) **PROGRAMMING** buttons to select the desired Personality (i.e., Party, Away, Vacation, Holiday, Special 1, Special 2, Everyday, Entertain) (refer to Figure 38). Press the **Select/Next** button to save entry and return to the Main Screen. The Trigger Wizard is now finished (refer to Figure 39).

NOTE: Time Triggers can be added to all Personalities.

Figure 38

**Add to Personlty
<Party>**

Figure 39

**Trigger Wizard
Finished!**

Macro Wizard - Macros specify a single DHC command. The commands can be DHC extended commands (i.e., scene commands), or the standard or X-10 commands (i.e., turning device C1 OFF). The Macro can be transmitted on a trigger. For instance, a Timer can be made to trigger a macro, or a macro can be triggered on reception of a infrared (IR) input from a standard TV remote control.

The Macro Wizard allows for the programming of up to 64 commands. Completion of the Wizard will enable preferred events to be activated.

NOTE: The Setup Wizard must be completed prior to using the Macro Wizard so that the used House Codes are set.

Press the **WIZARDS** button then the **Up** (▲) or **Down** (▼) and **Left** (◀) or **Right** (▶) **PROGRAMMING** buttons to select the Macro Wizard (refer to Figure 40). Press the **Select/Next** button to access the Macro Wizard. Proceed as follows:

Figure 40

**Use ^, v or SEL
<Macro Wizard>**

Pick device type: Press the **Up** (▲) or **Down** (▼) **PROGRAMMING** buttons to select the device type used (Dimmer, Switch, 2-Way Dimmer, 2-Way Switch). This will allow communication between these other device types (refer to Figure 13). Press the **Select/Next** button to save entry and proceed.

Figure 13

**Pick device type
<Dimmer>**

Repeat above procedure for setup of additional devices (refer to Figure 14 and 15). When all devices are setup, press the Wizards button to complete programming and return to Main Screen (refer to Figure 10).

Figure 14

**Setup Devices?
<YES> <NO>**

Figure 15

**Use Devices A02:
Device A02**

IR Wizard - The IR Wizard allows for the programming and remote control of up to 10 lighting scenes. The learned infrared codes can be taught using any standard IR remote.

Press the **WIZARDS** button then the **Up** (▲) or **Down** (▼) and **Left** (◀) or **Right** (▶) **PROGRAMMING** buttons to select the IR Wizard (refer to Figure 16). Press the **Select/Next** button to access the IR Wizard. Proceed as follows:

Figure 16

**Use ^, v or SEL
<IR remote Wiz>**





Select Remote Trigger: Press the Up  or Down  and Left  or Right  PROGRAMMING buttons to select up to 16 infrared triggers (refer to Figure 17). Press the **Select/Next** button to save entry and proceed.

Figure 17

**Sel Remote Trigr:
TV Remote Trig 1**









Edit Trigger name: Press the Up  or Down  and Left  or Right  PROGRAMMING buttons to name desired infrared Trigger (i.e., Upstairs Lights ON) (refer to Figure 18). Press the **Select/Next** button to save entry and proceed.

Figure 18

**Edit Trigr name
Upstairs Lights ON**

Press TV Remote button to teach: Point the TV IR Remote at the Programmer at a distance of approximately 2 feet and press the button you wish to teach the command (i.e., Upstairs Lights ON) (refer to Figure 19). Once the desired button is selected, press the Up  or Down  and Left  or Right  PROGRAMMING buttons to name desired Macro refer to Figure 20).

Press the **Select/Next** button complete programming and return to the Home State (refer to Figure 21).

Figure 19

**Press TV Remote
button to teach**

Figure 20

**Macro to trigger
Macro 01**

Figure 21

**TV Remote Trigr
Wizard Finished!**





Add add'l random minutes: Press the Up  or Down  and Left  or Right  PROGRAMMING buttons to add random minutes to set trigger time (refer to Figure 34). Press the **Select/Next** button to save entry and proceed.

Figure 34

**Add add'l random
minutes = 30**



Pick repetition: Press the Up  or Down  PROGRAMMING buttons to select the desired sequence of events (Once per Week, Once per Month, Weekdays, Weekends, Odd Days, Even Days, Daily) (refer to Figure 35). Press the **Select/Next** button to save entry and proceed.

Figure 35

**Pick repetition
<Once per Week>**

Pick Day of Week: Press the Up  or Down  and Left  or Right  PROGRAMMING buttons to select the desired day of the week for event (Sunday-Saturday) (refer to Figure 36). Press the **Select/ Next** button to save entry and proceed.

Figure 36

**Pick Day of Week
<Sunday>**





Macro to trigger: Press the Up  or Down  and Left  or Right  PROGRAMMING buttons to select the desired Macro to trigger (01-64) (refer to Figure 37). Press the **Select/ Next** button to save entry and proceed.

Figure 37

**Macro to trigger
Macro 01**

Timer to edit: Press the **Up** (▲) or **Down** (▼) and **Left** (◀) or **Right** (▶) **PROGRAMMING** buttons to select the desired Time Trigger (i.e., 01-64) (refer to Figure 30). Press the **Select/Next** button to save entry and proceed.

NOTE: An asterik (*) will be displayed when the timer has been activated and defined (refer to Figure 30).

Figure 30

*** Timer to edit:
Time Trigger 01**

Edit Time name: Press the **Up** (▲) or **Down** (▼) and **Left** (◀) or **Right** (▶) **PROGRAMMING** buttons to name the desired Time Trigger (i.e., Porch Light) (refer to Figure 31). Press the **Select/Next** button to save entry and proceed.

Figure 31

**Edit Timer name:
Porch Light**

Pick type: Press the **Up** (▲) or **Down** (▼) and **Left** (◀) or **Right** (▶) **PROGRAMMING** buttons to select the desired timing preference (i.e., Time of Day, Dawn +/- offset, Dusk +/- offset, Timer Disabled) (refer to Figure 32). Press the **Select/Next** button to save entry and proceed.

Figure 32

**Pick type:
<Time of Day>**

Trigger Time: Press the **Up** (▲) or **Down** (▼) and **Left** (◀) or **Right** (▶) **PROGRAMMING** buttons to set the desired time of day (refer to Figure 33). Press the **Select/Next** button to save entry and proceed.

Figure 33

**Trigger Time =
12:00PM**

Scene Wizard - The Scene Wizard allows for the programming of up to 64 lighting scenes. Naming of device and lighting scenes gives user-friendly control of lighting loads. Refer to the following examples of common scene settings:

Room ON or Room OFF scenes - These scenes would turn the lights ON in one particular room or OFF in another room.

Pathway scenes - These scenes would light a path of lighting from one room in a house to another room. For example, from the driveway to the bedroom.

ALL On or ALL Off scenes - These scenes would turn ON all lights in a house or turn them all OFF. While DHC devices respond to the ALL ON/OFF command, these commands only control lights on one house code. Because the Programmer can cause scenes to span house codes, the ALL ON or ALL OFF Scene command is not limited to 16 devices.

Mood scenes - Use the scene control to set particular lighting for special events. For example a 'Party Scene' might set lights by the pool, barbecue, driveway, and to the bathroom(s).

Single Device Scenes - You can program a single device to turn ON or OFF. This would allow the appearance of mixing scene buttons with individual control buttons.

Press the **WIZARDS** button then the **Up** (▲) or **Down** (▼) and **Left** (◀) or **Right** (▶) **PROGRAMMING** buttons to select the Scene Wizard (refer to Figure 22). Press the **Select/ Next** button to access the Scene Wizard. Proceed as follows:

Figure 22

**Use ^, v or SEL
<Scene Wizard>**

Scene to edit: Press the **Up** (▲) or **Down** (▼) and **Left** (◀) or **Right** (▶) **PROGRAMMING** buttons to select desired scene to modify (refer to Figure 23). Press the **Select/Next** button to save entry and proceed.

Figure 23

**Scene to edit:
Scene 01**

Edit scene: Press the **Up** (▲) or **Down** (▼) and **Left** (◀) or **Right** (▶) **PROGRAMMING** buttons to name desired scene (i.e., Living Room) (refer to **Figure 24**). Press the **Select/Next** button to save entry and proceed.

Figure 24



Adjust devices: Press the **Up** (▲) or **Down** (▼) and **Left** (◀) or **Right** (▶) **PROGRAMMING** buttons to select Housecode, Lighting Level and Device to enter into scene. The percentage level may be set with the individual **UP** (▲) and **Down** (▼) **DIM/BRIGHT** buttons (refer to **Figure 25**).

Press the **Include/Exclude** buttons to Add or Remove devices from a scene while programming that scene (refer to **Figure 2**). The lighting level may also be adjusted by pressing the **UP** (▲) or **DOWN** (▼) **DIM/BRIGHT** buttons (refer to **Figure 2**).

NOTES:

- When the device is Included in the scene, the device number will be illuminated above the selected button (refer to **Figure 2**).
- When the device is Excluded from the scene, the device number will be extinguished above the selected button (refer to **Figure 2**).

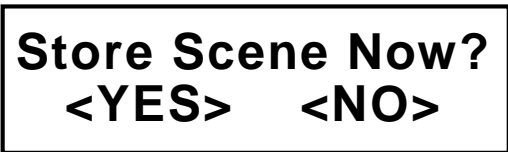
Press the **Select/Next** button to save entry and proceed.

Figure 25



Store Scene Now?: Press the **Up** (▲) or **Down** (▼) and **Left** (◀) or **Right** (▶) **PROGRAMMING** buttons to select YES or NO (refer to **Figure 26**).

Figure 26



If **NO** is selected, press the **Select/Next** button to return to the Adjust Device screen to modify Housecode, Lighting Level and Device. When information is entered accordingly, press the **Select/Next** button and select YES to program scene and return to the Main Screen (refer to **Figure 27**). The Scene Wizard is now finished.

If **YES** is selected, press the **Select/Next** button and select YES to program scene and return to the Main Scene. The Scene Wizard is now finished (refer to **Figure 28**).

NOTE: It may take several minutes to program a scene if many housecodes are enabled.

Figure 27



Figure 28



Repeat previous steps to program up to 64 additional Scenes.

Trigger Wizard - The Trigger Wizard allows for the programming of up to 64 timed events. The default programmed state of the timers is that they are DISABLED. Completion of the Wizard will enable preferred events to be activated.

Press the **WIZARDS** button then the **Up** (▲) or **Down** (▼) and **Left** (◀) or **Right** (▶) **PROGRAMMING** buttons to select the Trigger Wizard (refer to **Figure 29**). Press the **Select/Next** button to access the Trigger Wizard. Proceed as follows:

Figure 29

