

OMEGAPRO INSTALLATION GUIDE

TOOLS NEEDED

- Flat-blade Shovel or Edger
- Wire Strippers/Cutters
- Screw Driver

STEP 1 MAKE A PLAN

OmegaPro products service a variety of lighting needs, so it is important to select the right product for the right job. The number of fixtures in an installation determines the type of wire required to service all those fixtures, and the distance between fixtures determines amount of wire to use, so it is helpful to know where fixtures will be placed, and how many, before beginning any job.



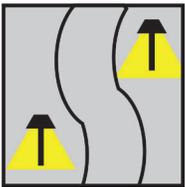
ACCENT AND BULLET LIGHTING

OmegaPro OB-Series fixtures are designed to illuminate specific landscape features, such as trees, walls and gardens. In many cases, fixtures can be placed so as to be hidden by shrubbery or other features, so that the end result is a display that highlights only the objects on which the light shines, and not the fixtures themselves.



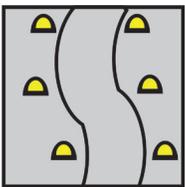
DOWN LIGHTING

OmegaPro DL-Series fixtures are designed to be mounted high on a wall or tree so as to illuminate an entire area. For this reason, DL fixtures should not be placed so as to be obscured by a tree or other feature, but to shine over a wide, unobstructed area.



PATH LIGHTING

OmegaPro AL-Series fixtures are designed to illuminate walkways and driveways, as well as sitting areas like decks and patios. When deciding where to position AL-Series fixtures, extra attention should be paid to the visual appeal of the fixtures themselves in addition to where light will fall.



HARDSCAPE LIGHTING

OmegaPro HL-Series fixtures are designed to be built into the walls and hardscape features and provide area lighting. Spacing of hardscape fixtures can range from 6-8' in low, 12" walls to 12-15' in taller walls.

CHOOSING YOUR WIRE

Generally, 12 gauge wire will be used with LED fixtures and lamps. This wire is rated for 192 watts, so as long as the total of all of the wattage from your OmegaPro lamps is less than 192 watts and you do not exceed 200' of wire on a run, you will not need to perform other calculations. The longer the wire run means less total capacity of wattage.

STEP 2 **SIZE AND INSTALL THE TRANSFORMER**

A simple way to size the transformer and to allow for some excess capacity is to estimate 10 watts for each Accent or Down Lighting fixture and estimate 5 watts for each Path or Hardscape light. Add up the total of all the wattage and select a transformer with a larger wattage capacity that you require for all of your fixtures.

Mount the OmegaPro transformer nearby a GFCI (Ground-Fault Circuit Interrupter) outlet. Omega Pro transformers are weatherproof and can be mounted outdoors near a weather-protected GFCI outlet, or indoors in a garage or shed. The bottom of the transformer should be 12" above the ground.

STEP 3 **ASSEMBLE AND PLACE FIXTURES ACCORDING TO YOUR DESIGN**

Assemble each OmegaPro fixture according to the instructions provided with each fixture. Install lamp, if required and not included. Then position each fixture according to your own design and install (either by pressing in a ground-spike, or mounting a bracket, etc., depending on the fixture).

Make sure, however, that all of your lead wires are still accessible, which may mean leaving ground-spikes only partially pressed in.

STEP 4 **RUN WIRE TO EACH FIXTURE**

Run wire to each fixture in a "daisy chain". Cut the wire with plenty of slack to allow you to make a comfortable connection. The easiest way to do this is to tie a simple overhand knot with the lead from the fixture each place you are making a connection. Cut the wire and strip each side, as well as the lead from the fixture about 1/2". Make sure not to lose any strands of copper wire. Separate the two sides of the wires. You will notice the one side of the wire always has lettering on it – it is a good idea when you make your connections to always keep the wire with writing together and the other side with "striping or ribbing" together. Hold the wire from the last fixture, the lead from the fixture and the wire going to the next fixture together and install a waterproof wire nut. Do the same with the other wires. There should be two connections for every fixture. The last fixture on your run will only have two wires to connect.

It is best to bury the wires by digging a 6 inch deep trench with any flat-blade spade or edger. Make sure to wait until after final adjustment to bury the wires around the fixture, leaving you plenty of room to move the fixture around.



IMAGE 1

This shows the correct wiring of low voltage 12VAC cables. 2 wires spliced with waterproof wire nuts to a fixture, then continuing on to the next fixture on the project.

STEP 5 CONNECT WIRES TO THE TRANSFORMER

Run 12 gauge wire from your runs into the bottom of the transformer and secure. Strip wires 1/2" and split. Loosen the lugs on the common tap and the 12 volt transformer with a screwdriver. As above, combine (if more than one run) the side of the wires that have writing and insert into the 12 volt lug and tighten with screwdriver. Insert the striped / ribbed wires into the common tap and tighten. It is very important for the lugs to be very tight (and a good idea to check annually) as this insures a strong electrical connection.

Now unplug "plug" in transformer and install Gemini astronomic timer and insert plug into side of timer. Follow directions on timer to setup after plugging in transformer.



IMAGE 2

This shows the correct wiring using 12AWG going out of the transformer to the lighting fixtures. As well as the correct installation of the GEMINI astronomic timer

STEP 6 WAIT FOR NIGHTFALL AND TROUBLESHOOT

No job should be considered complete until you've had the opportunity to observe your lighting work in action. Wait until nightfall to make sure that all of your lights are positioned correctly, aimed at the right features, and functioning through the night. Many fine-tuning adjustments such as angle of a fixture or length of a shroud can only be made at night when the light is most visible.

FOR MORE INFORMATION

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OmegaPro reserves the right to make changes
to specifications at any time with or without notice

