

## Comparison of Light O Rama CTB16PC with D-Light Designs ACx16 March 1, 2007

SOLDER THEM YOURSELF KITS						
	Controllers	Channels	LOR/D-Light	Mouser parts	cost/controller	cost/channel
LOR CTB16PC Kit	1	16	\$105.95	\$0.00	\$105.95	\$6.62
D-Light ACx16 Silver	Not available					
LOR CTB16PC Kit	2	32	\$211.90	\$0.00	\$105.95	\$6.62
D-Light ACx16 Silver	2	32	\$99.00	\$114.44	\$106.72	\$6.67
D-Light advantages:						
1) Price includes the insulated female quick-connects for power cables you supply.						
2) Kit allows you to hunt around for best prices for components but this usually incurs additional shipping charges and can actually increase the overall cost and definitely increases the time spent getting your parts together.						
3) When buying parts in quantity from Mouser, there is a price break. See Chart 1 below.						
D-Light option:                   \$19.95           Premium heat sinks						
LOR advantages:						
1) Includes low power heat sinks, mounting hardware and thermal compound. These heat sinks make the placement and soldering of the triacs easier.						
2) "no-clean" solder. This solder minimizes the flux mess so no circuit board clean up is necessary.						
3) Machine prepared leads on the triacs and DIPs to make insertion into the board easier.						
4) Heat sinks on the voltage regulators.						
5) Illustrated, printed kit assembly manual included: <a href="http://www.lightorama.com/Documents/CTB16Kpcv1_Assembly_Manual.pdf">http://www.lightorama.com/Documents/CTB16Kpcv1_Assembly_Manual.pdf</a>						
6) Published warranty: <a href="http://www.lightorama.com/Warranty.html">http://www.lightorama.com/Warranty.html</a>						
7) Published policy on kit repair: <a href="http://store.lightorama.com/diyproducts.html">http://store.lightorama.com/diyproducts.html</a> Less than 1.5% of kits have problems and most of those are fixed by email/phone support. Unless the builder has severely damaged the kit, LOR repairs it for shipping charges. (0.3% of kits fell into the damaged beyond repair category)						
8) If you should severely damage a kit where LOR really can't repair it, the LOR Warranty allows you to buy another (kit or built board) for 60% of the list price to mitigate your loss.						
LOR options:						
If you can find a less expensive source for any of the following items, you are, of course, free to use it/them.						
Remember, these parts were engineerig to be compatible, easy to use and include assembly instructions.						
\$18.00	High power heat sinks					
\$25.00	Outdoor plastic box with cable strain relief/grounding bar					
\$5.50	Single power cord w/jumpers and crimped-on female quick-connects and grounding lug					
\$8.00	Dual power cords with crimped-on female quick-connects and grounding lugs					
\$30.00	16 output power cords with crimped-on female quick-connects and grounding lugs					

## ASSEMBLED CIRCUIT BOARDS WITH OPTIONS

	Controllers	Channels	LOR/D-Light	Mouser parts	cost/controller	cost/channel
LOR CTB16PC	1	16	\$159.95	\$0.00	\$159.95	\$10.00
D-Light ACx16 Gold	1	16	\$159.00	\$0.00	\$159.00	\$9.94
D-Light advantages:						
D-Light option:                 \$19.95         Premium heat sinks						
LOR advantages:						
1) Published warranty: <a href="http://www.lightorama.com/Warranty.html">http://www.lightorama.com/Warranty.html</a>						
2) High power heat sinks are factory installed.						
3) Full complement of compatible options to build a complete controller (with documentation)						
LOR options:						
If you can find a less expensive source for any of the following items, you are, of course, free to use it/them.						
Remember, these parts were engineered to be compatible, easy to use and include assembly instructions.						
\$0.00	Low power heat sinks (factory installed)					
\$18.00	High power heat sinks (factory installed)					
\$25.00	Outdoor plastic box with cable strain relief/grounding bar					
\$5.50	Single power cord w/jumpers and crimped-on female quick-connects and grounding lug					
\$8.00	Dual power cords with crimped-on female quick-connects and grounding lugs					
\$30.00	16 output power cords with crimped-on female quick-connects and grounding lugs					

<b>Windows Software, USB Cable, USB Adapter and Cat5e Cable required to use your controller(s)</b>					
	Software	USB Adapter	USB Cable	Cat5e cable	Total cost
Light O Rama	\$99.95	\$2.00	\$0.00	\$0.00	\$101.95
D-Light Designs	\$129.95	\$29.95	n/a	n/a	\$159.90
LOR advantages:					
1) 6' USB cable included.					
2) 10' Cat5e cable included					
3) Free upgrade to LOR II software included.					

<b>Chart 1 -- Solder it yourself</b>						
<b>Mouser quantity price breaks (D-Light &amp; Mouser on-line prices on March 1, 2007)</b>						
	Controllers	Channels	D-Light	Mouser parts	cost/controller	cost/channel
D-Light ACx16 Silver	4	64	\$198.00	\$216.60	\$103.65	\$6.48
D-Light ACx16 Silver	6	96	\$297.00	\$322.28	\$103.21	\$6.45
D-Light ACx16 Silver	8	128	\$396.00	\$400.16	\$99.52	\$6.22
D-Light ACx16 Silver	10	160	\$495.00	\$497.32	\$99.23	\$6.20