



Device	Digital Controller	Precision repeatability and reliability due to digital processing. No obsolete analog timers.
Control Channels	One	Single control channel. Dual normally open and normally closed (trigger turns on or trigger turns off) contacts provided.
Relay Channels	Two	Two independent sets of relay contacts allow for simultaneous control of high voltage (120vac) and low voltage circuits.
Current Rating	16-Amps total	Each relay channel rated at 8-amps. They may be paralleled for a total current handling capacity of 16-amps.
Relay Life	20,000,000 operations	That's more than 5,000 operations per day, 365 days per year for 10 years!
Response Time	1/100 th of a second	This is equivalent to 30-40 times faster than the average person can blink their eyes.
Processor Speed	1 MIPS	1,000,000 instructions per second!
Warranty	5-Years	Warrantied against defect in materials or workmanship for 5-years, including when used in commercial applications.
Power	9-14vdc, 100mA	Current ratings higher if supplying power to anything other than a single Lights Alive trigger/sensor. 24vdc version available as special order.
Power Out	Two methods	Mantis controllers supply power to all Lights Alive brand trigger/sensors via the proprietary LADC connection. Screw terminals are provided for 3 rd party sensors.
Prop Power	Via relay contacts	12vdc, up to a maximum of 1-amp can be supplied to solenoid valves or other relays with a simple jumper, eliminating the need for other power supplies.
Trigger Connection	Via LADC or screw terminals	All Lights Alive brand triggers/sensors connect to the controller via the LADC cable which provides trigger circuitry and power. Screw terminals are provided for 3 rd party triggers.
Internal Timers	3 microprocessor controlled digital timers	Consists of three digital timers in one. When triggered, the PRE DELAY timer determines a delay (0-10sec) before the action. The EVENT TIME is programmable from 0-30 sec, then a POST DELAY timer determines the time (0-10sec) before the next trigger can occur. All three internal timers are fully adjustable by the user.
Indicators	Three	Trigger, status and LADC device present LED indicators included.
Repeat Function?	Yes	Runs program once, then waits for next trigger in normal mode. In continuous mode the program will be continuously repeated.
Trigger Method	Switch closure	Compatible with all Lights-Alive brand triggers/sensors as well as any other brand device that provides simple switch closure.
Input Isolation?	Optical	All Mantis controllers and intelligent sensors are equipped with optoisolators to protect the microprocessor
LADC Technology?	Yes	All Mantis products are equipped with LADC (Lights Alive Direct Connect) technology. With LADC, a single quick-connect cable carries both DC power and the trigger circuit to the trigger/sensor. Screw terminals are provided for connecting 3 rd party triggers.
User Controls	Four	PRE DELAY (0-10sec), EVENT TIME (0-30 sec), POST DELAY (0-10 sec) & TEST
Pluggable Connectors	Two	Both screw terminal connectors may be quickly unplugged and plugged into a replacement controller in the unlikely event of a problem, thus reducing down time
Custom Configurations	Many	Custom configurations include, but are not limited to 24vdc operation, DC output from one or both relay contact sets, pre-programmed routines, etc.
Build Versions	Three	Fully assembled units, finished boards for inclusion in your box and kits are available
Daisy Chain	Yes	Multiple controllers can be daisy chained thus requiring only a single power source

All specifications are subject to change without notice. 032010

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