

miniMANTIS-2

SIMPLY IN CONTROL



Device	2 Channel trainable controller w/audio	Precision repeatability and reliability due to digital processing. High quality audio. Internal diagnostics, status indicators, internal audio amplifier
Control Channels	Two	Two control channels, each with dual sets of relay contacts. Also includes background and triggered audio channels.
Relay Contacts	Four	Two independent sets of relay contacts per channel (total of 4 contact sets) allow for simultaneous control of high voltage (120vac) and low voltage circuits.
Current Rating	32-Amps total	Each relay channel rated at 8-amps. They may be paralleled for a total current handling capacity of 16-amps per channel or up to 32 amps per controller, AC or DC, low voltage or 120 volt.
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	
Processor Speed	2 MIPS	2,000,000 instructions per second!
Warranty	5-Years	Warrantied against defect in materials or workmanship for 5-years, including when used in commercial applications.
Power	12vdc, 350mA	Current requirement higher if supplying power to anything other than a single Lights Alive trigger/sensor.
Power Out	Two options	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.
Audio Level	LED	LED audio record level indicators allow for excellent audio on first attempt.
Program length	2-1/2 minutes	2.5 minute show control. Audio record time of 2.5 minutes includes background track plus the triggered audio track.
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	User trainable	Microprocessor memorizes real-time actions. Simply enter program mode and press CHANNEL buttons to activate relays. miniMANTIS will remember this routine when triggered. Can easily be synchronized with recorded audio.
Indicators	Nine	Channel activity (x2), trigger, status, control, record level (x2) audio activity, LADC device present LED indicators included.
Repeat Function?	Yes	Runs program once, then waits for next trigger in normal mode. In repeat mode the program will be continuously repeated. Starts automatically if trigger strapped at power up.
Trigger Method	Switch closure	Compatible with all Lights-Alive brand triggers and intelligent 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 isolate and 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 DC power and the trigger circuit to trigger/sensor. CLICK, CLICK, DONE! Screw terminals provided for connecting 3 rd party triggers.
User Controls	Three	TEST, CONTROL and CHANNEL 1, CHANNEL 2 and VOLUME
Pluggable Connectors	Three	All screw terminal connectors may be quickly unplugged and plugged into a replacement controller in the unlikely event of a problem, thus reducing down time
Volume Control	Yes, for audio out	An audio level control is provided for audio out. This allows you to easily match the output of the miniMANTIS-2 to your amplifier or amplified speakers.
Audio Quality	12k sample rate	50% higher sample rate than competition, thus yielding excellent audio.
Daisy Chain	Yes	Multiple controllers can be daisy chained thus requiring only a single power source and/or a single trigger
Prop Test	Yes	When idle, pressing CHAN 1 or CHAN 2 will trigger relay to test prop without need to run program.
Memory Protect	Yes	Memory protect mode eliminates the possibility of accidental program erasure. Program also retained during power failure.
Global Erase	Yes	Global erase is provided to erase all programming with on quick action

All specifications are subject to change without notice. 040810

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