

Ra 0-10V

Automated Grow Light Controller with Analog Dimming
MODEL RA-0-10V · NURAVINE LIGHTING

Ra is a dedicated grow light controller that automates spectrum and dimming. The 0-10V model drives four independent analog dimming channels for compatible LED fixtures, running up to four lighting zones on independent 24-hour schedules.

Lighting recipes run on-device, so your lights follow a consistent day and night cycle even without an internet connection. Set intensity per channel per period, choose instant, linear, or natural sunrise-style transitions, and manage everything from the Nuravine web app. Ra is powered by any standard 5V USB-C charger.



- 4 independent 0-10V dimming channels
 - Independent 24-hour schedule per zone
 - Instant, linear, and natural transitions
 - Designed and assembled in Woodstock, NY
- 1x 4-channel, 2x 2-channel, or 4x 1-channel zones
 - Recipes run on-device, even offline
 - Powered by 5V USB-C

LIGHTING CONTROL		CONNECTIVITY AND CLOUD	
Channels	4 independent 0-10V analog dimming channels	Wi-Fi	2.4 GHz only
Zones	1x 4-channel, 2x 2-channel, or 4x 1-channel; independent schedules	Provisioning	Ra Setup hotspot with captive portal; token-based registration
Intensity mapping	Percentage maps directly to voltage (50% = 5.0V)	Cloud platform	Nuravine Cloud at app.nuravine.com (browser-based, no install)
Fixture connection	RJ12 connector; direct run to first light, daisy-chain the rest	Remote control	Scheduling, presets, and manual control from any browser
Channel setup	Name, display color, and enable/disable per channel	Firmware updates	Over-the-air (OTA) with automatic rollback
SCHEDULING AND RECIPES		ELECTRICAL	
Modes	Off, Manual, Schedule (per zone)	Power input	5V USB-C; any standard USB-C power adapter (not included)
Recipes	24-hour cycle with multiple periods; up to 10 custom recipes per device	Power consumption	Under 10 W
Per-period settings	Time, label, per-channel intensity 0-100%, transition, duration	Output signal	0-10V analog, 4 channels
Transitions	Instant, Linear, or Natural (sunrise/sunset curve)	ENVIRONMENTAL AND PHYSICAL	
Offline behavior	Recipes stored and executed on-device; no cloud required	Environment	Indoor, dry location
		Origin	Designed, built, and tested in Woodstock, New York
		Warranty	2-year limited hardware warranty

FUNCTIONAL CAPABILITIES

Zone Flexibility

- Run one 4-channel fixture group with full spectrum control
- Split into two 2-channel zones with separate day/night cycles
- Run four single-channel zones, each on its own schedule

Recipes and Presets

- Build recipes period by period from the web app
- Default template: Morning 06:00 and Night 18:00, ready to customize
- Preset libraries for supported fixtures, including Aviary presets

IN THE BOX

- 1x Ra 0-10V controller

ORDERING INFORMATION

MODEL / SKU	DESCRIPTION
RA-0-10V	Ra grow light controller, 0-10V analog dimming
RA-485	Ra grow light controller, RS-485 digital control
RA-485-TEMP	Ra RS-485 bundled with wired temperature sensor

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