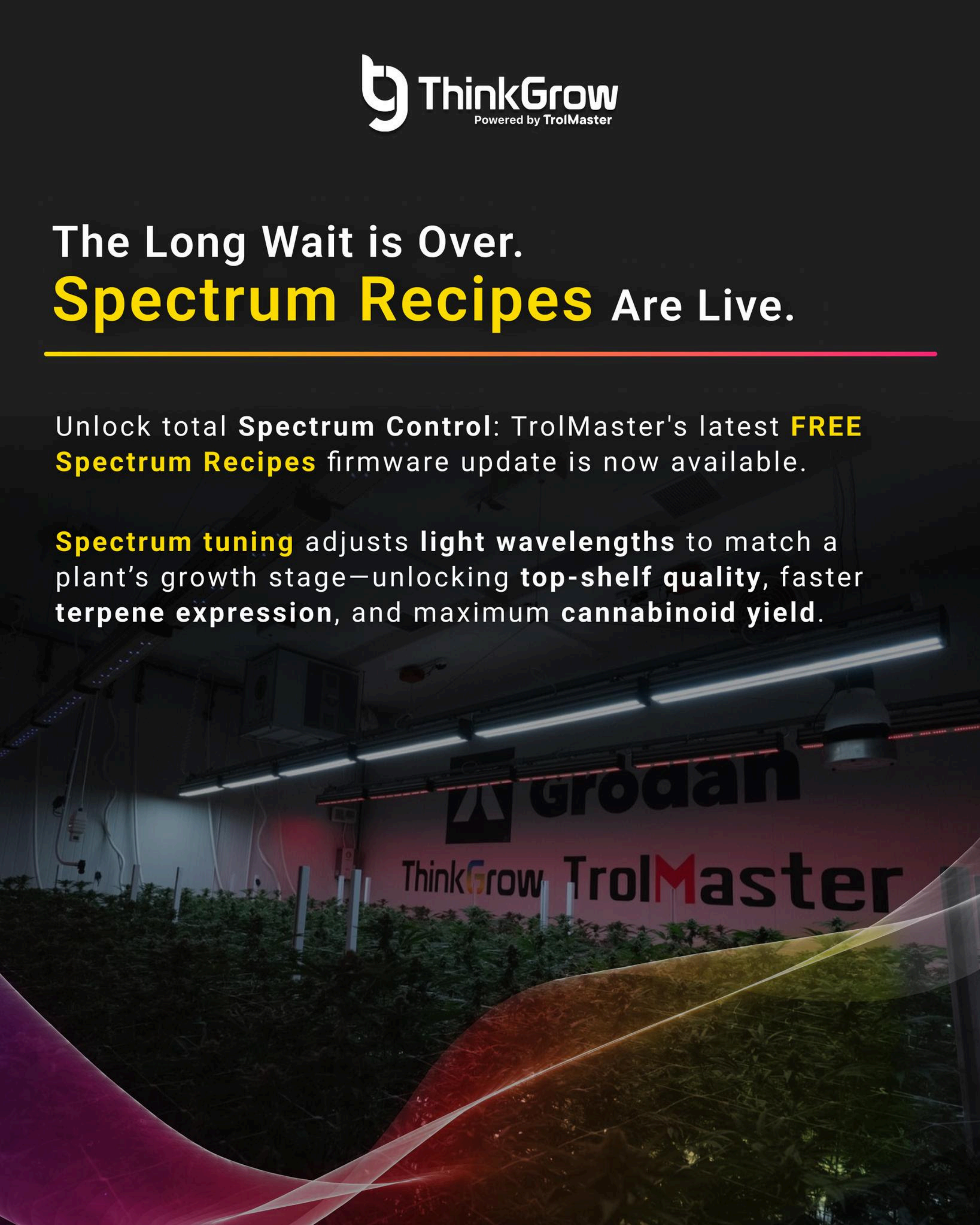




The Long Wait is Over. **Spectrum Recipes** Are Live.

Unlock total **Spectrum Control**: TrolMaster's latest **FREE Spectrum Recipes** firmware update is now available.

Spectrum tuning adjusts **light wavelengths** to match a plant's growth stage—unlocking **top-shelf quality**, faster **terpene expression**, and maximum **cannabinoid yield**.



LIGHTING CONTROL, EVOLVED

Dear Valued Grower,

Crop Steering is no longer limited to irrigation strategies below the rootzone. Environmental management above the canopy has taken a major leap forward—**Light Spectrum Steering** is officially here.

ThinkGrow and **TrolMaster** have joined forces to launch the industry's most advanced lighting control upgrade, backed by years of commercial-scale success. Say goodbye to static guessing and hello to pure biological precision.



TrolMaster



ThinkGrow
Powered by TrolMaster

Upgrade Your Control for **FREE**.

New **Preset Spectrum Recipes** firmware is now live for ThinkGrow 4-Channel LED Grow Lights.



Pre-Loaded Recipes:

Ready-to-use curves for every grow stage.



Automated Transitions:

Automatic room transitions—no manual data entry.



Commercial-Tested:

Built on commercially tested lighting recipes.



FREE AUTOMATED SPECTRUM CONTROL RECIPES

Upgrading your facility technology shouldn't bring added stress. TrolMaster has released a **FREE controller firmware update** for ThinkGrow 4-Channel LED Grow Lights, delivering automated preset Spectrum Control Recipes directly to your controller.

Your controller will automatically transition your grow room through 3 proven seasonal recipes:

SPRING SPECTRUM (DAYS 1–21)

Aligned with generative stacking strategies

Spring Sun Simulation:

Powers early vegetative and structural growth.

Tight Plant Structure:

Prevents unwanted stretching and strengthens canopy density.

Payload Ready:

Develops a solid branch network engineered to carry maximum weight.



BLUE-DOMINANT & HEAVY WHITE
baseline





SPRING SPECTRUM

Stacking (Days 1–21): Features a heavy white and blue-dominant baseline to keep internodal spacing tight, short, and perfectly stacked.

SUMMER SPECTRUM (BULKING)

Tailored to support your bulking irrigation strategy

Mimics Peak Summer Sun:

Delivers intense mid-summer light to supercharge photosynthesis.

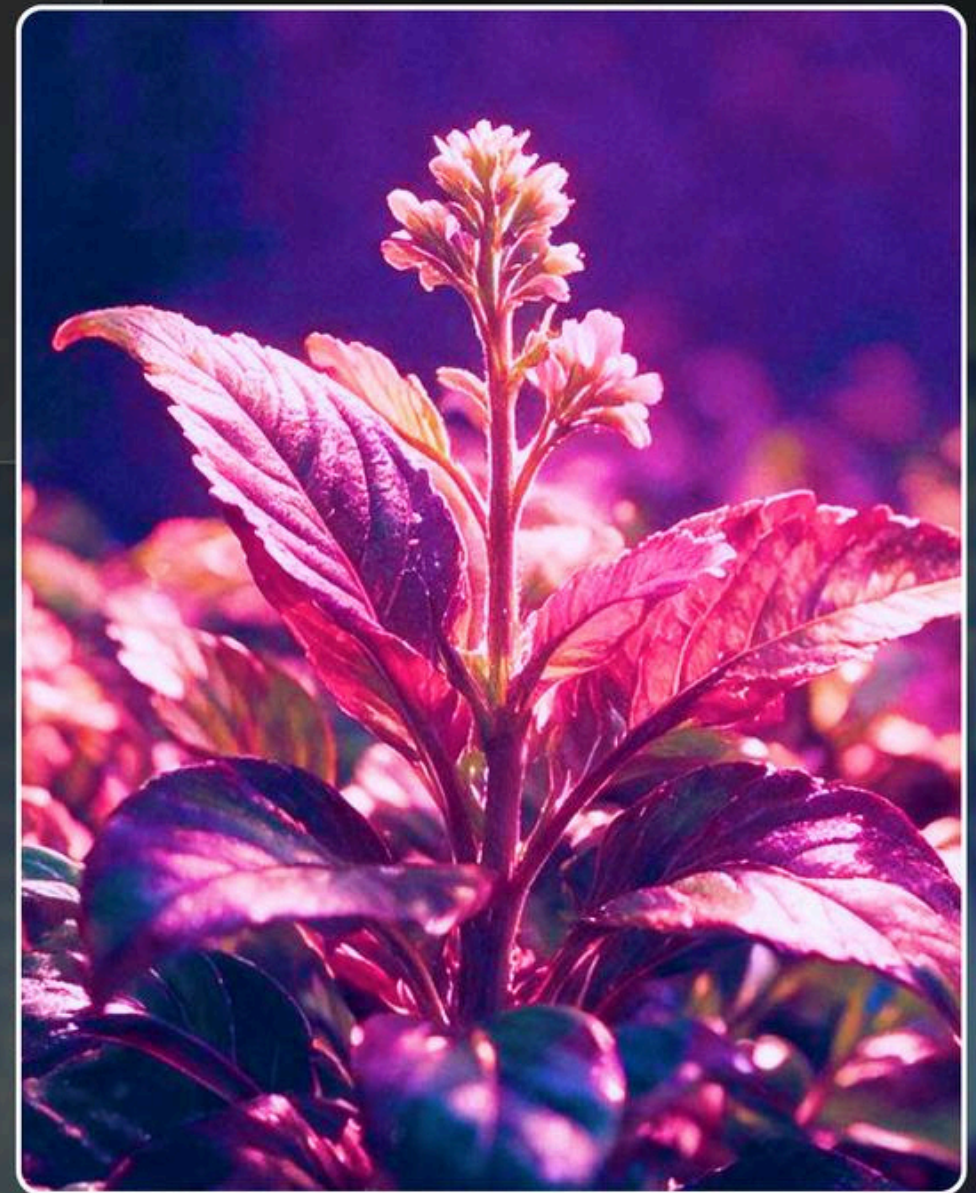
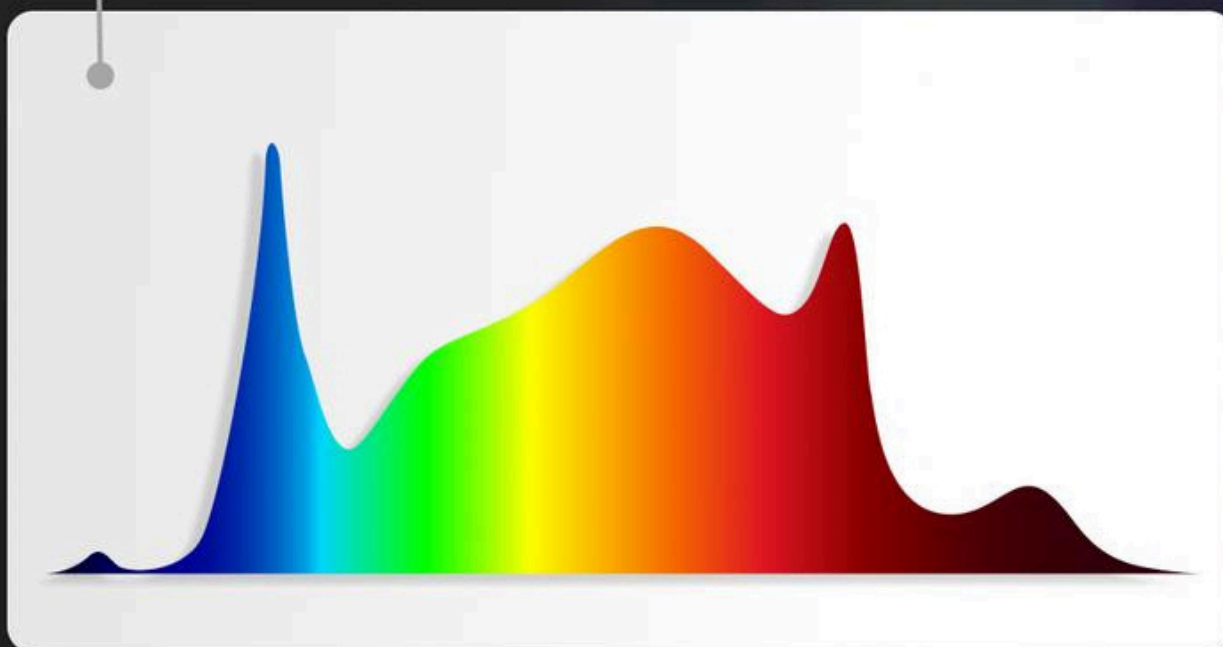
Deep Canopy Penetration:

Drives true flower density from top colas to lower stems.

Balanced Red & White Light:

Combines high-density white light with strong red spectrum support.

Strategic boost to **UV** wavelengths combined with a smooth taper of overall light intensity.



SUMMER SPECTRUM

Bulking: Ramps up the Deep Red engine to drive massive flower swelling and volume while maintaining high white light density.

AUTUMN SPECTRUM (FINISHING)

Optimized for final-phase resin and potency production



Harvest-Ready Signal:

Mimics natural seasonal shift to maximize final flower quality.

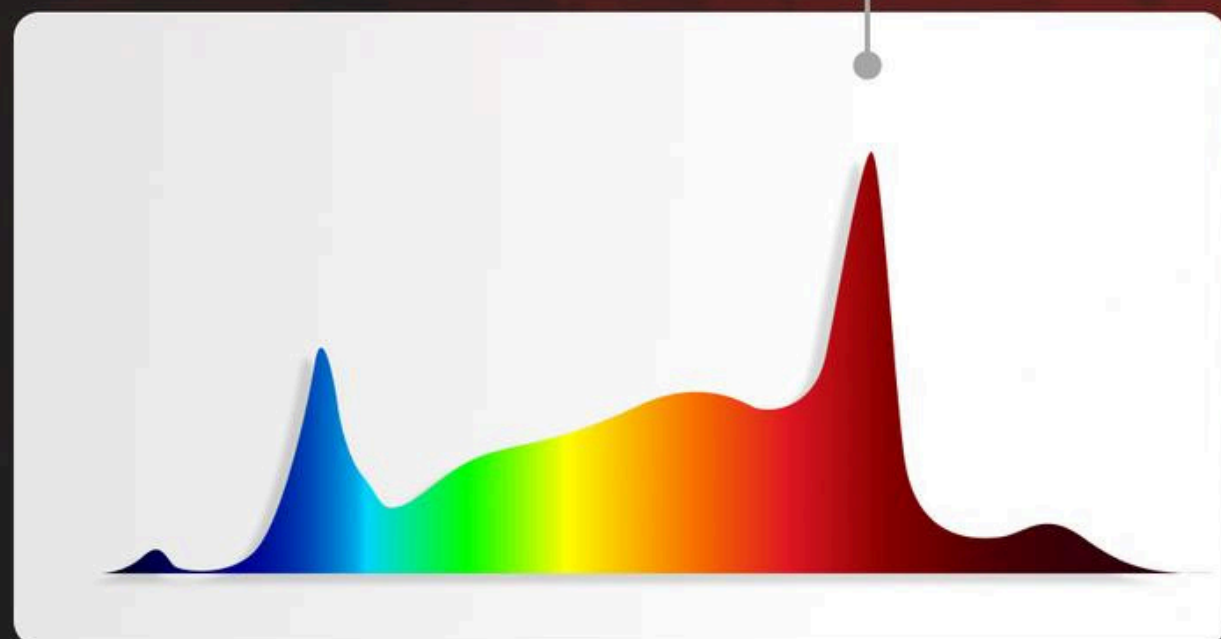
Explosive Potency:

Maximizes resin, terpene oil, and trichome density right before harvest.

Targeted UV Boost:

Delivers strategic UV wavelengths while smoothly tapering overall light intensity.

MAXIMUM DEEP RED engine activation balanced with high white light density



3+ Years of Commercial-Scale Testing

Proven performance built for real-world facilities.



Developed across **3+ years of continuous testing** in live commercial facilities with @miami.mango. Every light curve is engineered to trigger targeted botanical responses and maximize facility output.

COMMERCIAL-GRADE RESULTS YOU CAN BANK ON

We didn't just dream up these light curves in a laboratory. Our professional cultivation team spent **over 3 years of rigorous testing** at the [@miami.mango](#) commercial cultivation facility to determine exact plant thresholds and optimize growth responses.

Real-World Performance

Data-backed light curves engineered to optimize crop cycles, boost revenue, and optimize labor demand.



Shorter Crop Cycles

Shave up to **7-10 DAYS** off your flowering cycle safely.



More Revenue

Maximize annual facility output with up to **6.6 HARVESTS PER YEAR**.



Save Operational Time

Skip Day-42 Defoliation:

Completely removes the need for a final defoliation strip.

- **Upright Canopy Growth:** Total Far-Red sleep-cycle automation keeps lower branches upright.
- **Optimize Labor Demand:** Reduce labor demand by up to 20%.



Ready to unlock these results?

Update your firmware today or
contact Tech Support to get started.

THE REAL-WORLD PRODUCTION RESULTS SPEAK FOR THEMSELVES

 **Shorter Crop Cycles:** Shave up to 7–10 days off your flowering cycle safely.

-  **Increased Revenue:** Maximize annual output with up to 6.6 harvests per year.
-  **Reduced Operational Costs:** Cut labor demand by up to 20% and completely eliminate the need for a final Day-42 defoliation strip.
-  **Superior Crop Quality:** Unlock top-shelf quality, faster terpene expression, and maximum cannabinoid yield.

READY TO LEVEL UP YOUR FACILITY?

Updating your equipment is fast and seamless. Get total peace of mind while the system automates your room transitions with zero manual data entry required.

AUTUMN SPECTRUM

Finishing: Slowly tapers overall intensity while delivering a strategic boost in UV, triggering an explosive final surge in resin, terpene oil, and trichome density.
