echo DISPLAY

SCYNCELED

- Foliar Application Mode
- 8-10 Week Spectrum Recipe
- Control up to 300 Fixtures
- 20 Independent Zones
- DLI Management
- Maintenace IPM Assessment

The **Echo Display** represents a significant advancement in the development of Scynce LED product controllers. Through the introduction of the Echo Display, Scynce LED now offers enhanced convenience by providing unparalleled usability via a touch-screen display. This allows for precise control and adjustment of Scynce LED fixtures on-site without the need to operate from a phone or tablet. Similar to its predecessors, the Echo Display also enables advanced web-based access and control from any location worldwide.

The Echo Display has the capacity to manage up to 300 wired Scynce LED fixtures concurrently with up to 200 Thread Mesh wireless Scynce LED fixtures. These fixtures can be subdivided into a maximum of 20 distinct lighting zones that can operate independently of one another.

DLI Managment

Seeking efficient management of DLI? The Echo Display offers the capability to incorporate up to twenty Apogee light sensors, enabling the control of twenty independently operated lighting zones. These sensors continuously monitor the quantity of light received by the plant canopy. Subsequently, the Echo Display automatically adjusts the light intensity of the Scynce LED fixtures, ensuring that the supplemental light provided to your canopy aligns with your specific growth requirements.

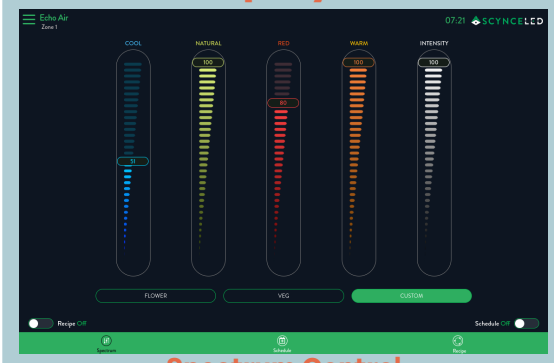
Schedules and Recipes

The Echo Display offers sophisticated customizable scheduling tailored to accommodate 8, 9, or 10-week growth cycles. It facilitates the precise adjustment of light spectrum, intensity, and direction to optimize plant growth during the stretch, bulk, and ripen phases. The Echo Display provides twelve distinct options per day, with the ability to seamlessly transition between each setting

Grower Maintenance Assist

Scynce LED offers two maintenance modes designed to facilitate efficient crop management. Firstly, the IPM (Integrated Pest Management) Assessment Mode converts all fixtures in the selected zone to white illumination, aiding in the identification of potential pests within the crop. Secondly, the Foliar Application Mode adjusts the intensity of all fixtures in the selected zone to a predetermined level (1%, 10% or 50%). This adjustment facilitates the safe entry of personnel into the cultivation area for crop maintenance activities, mitigating the risk of eye damage caused by excessive light intensity. Both modes feature a specified duration, after which the fixtures revert to their programmed lighting schedule.

Echo Display Control



Spectrum Control

Schedules & Recipes

Lighting Zones

Facility Wide Control System Integration

The Echo Display offers seamless integration between your existing environmental control system and Scynce LED fixtures. Capable of receiving Ethernet or 0-10v inputs, the Echo Display sends dimming or spectral control commands to the lights either through wired or wireless connections. Whether you have a wired connection to a system such as the TrolMaster Hydro X (using 0-10v) or necessitate a custom API for integration with systems like Argus (using ModBus), we provide comprehensive solutions to meet your requirements.

Recipe Builder

echo MINI

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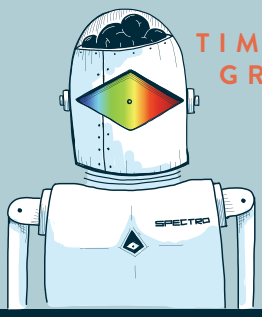

TIME TO GROW

The **Echo Mini** is specifically developed for environments comprising less than ten fixtures. It features three distinct zones with Simple Timers Scheduling, enabling the customization of start times and durations, complemented by supplementary sunrise and sunset capabilities. Control of the Echo Mini is facilitated through a web-based interface.

Controller Functionality Chart

	Echo Display	Echo Mini
Battery Backup & real-time clock - Keeps time in the event of power outage	X	X
Wifi - Allows global control of lights and sensors via web user interface: www.Scynce.cloud	X	X
Hardwired Ethernet - Allows global control of lights and sensors via web user interface: www.Scynce.cloud	X	
Scheduled Recipes - By the hour, day or week over the entire grow cycle	X	
Simple Timers Scheduling - Start time, duration, sunrise, sunset	X	X
Environmental Sensors - Apogee SQ-619-SS for PPFD (must be bought & configured from Scynce) or other Modbus devices	X	
Cirrus App - Used to configure Wifi, local connection, or web interface (control page) (bluetooth required for inital setup)	X	X
Firmware Update - Used to update lights automatically over the COM wires or Thread Mesh	X	X
Modbus input - Control input for integration with external controllers (Argus, Agrowtek, etc)	X	
Analog Input - Control master intensity via 0-10v input, can be used as an emergency override.	1	
COM Output - Digital output for full function control via wired connection to any Gen 3 Scynce lights	300	10
Thread Mesh Network - Digital control of any Scynce Legacy lights.	X	
Multi Zone Support - Allows multiple lighting zone operating independently on separate schedules	20	3
Cloud Support - Stores light serial numbers and recipe information.	X	
Remote Tech Support - Internet connection required.	X	
SMS or Email Alerts to Users - Alerts users when a light is down. (Internet connection required)	X	