

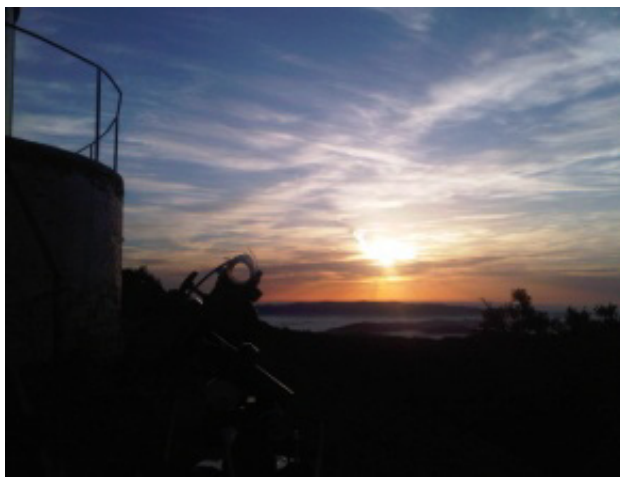
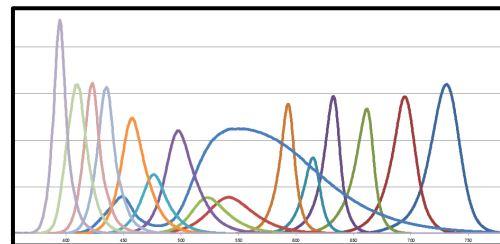
## Telelumen® Light Replicator

The Telelumen Light Replicator™ allows, complete freedom to manipulate the visible spectrum. With 16 independent color channels, the spectral power distribution (SPD) can be sculpted to suit the requirements of any application. The human experience with light mixes of any kind can be evaluated to discover new kinds of high-value lighting.

Compositions of light can be played back with a dynamic range of a million to one and a refresh rate of 1 kHz. Natural light sources can be captured and faithfully reproduced for study and experience.

Abstract combinations of multiple colors can just as easily be created to demonstrate and evaluate the effects and sensations of novel light scenes.

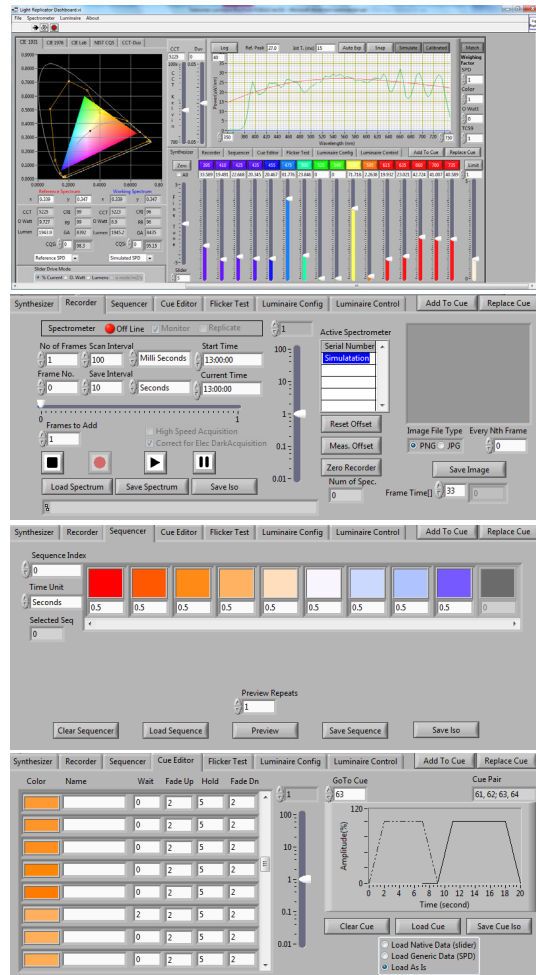
These combinations of color can be played back as static illumination or as varied over time with Lumenscripts.



Telelumen itself has pioneered the art and science of capturing dynamic natural light sources: **Lumenography**. Our team of lumenographers have collected Lumenscripts from around the world including Europe, Japan and North America. These raw recordings of spectral power distribution are made into Lumenscripts in our California production studio using Telelumen developer tools. These can be purchased from the Telelumen Lumenscript Library, or custom Lumenscripts can be commissioned for your specific application requirements.

### Features

- 2,200 Lumens at 5,225K
  - 9.8 Optical Watts
- $1.3E19$  photons/cm<sup>2</sup>/s at 5,225K
- Tunable CCT from 1,000K to 100,000K with CRI>90
- Extended 16 Point Color Gamut
- Visual Range Coverage (~395-735nm)
- Color Optimization for Chromaticity
- Dual-channel recording
- Auto Ranging Spectrometer Interface
- Spectrometer source recorder software with variable frame rate control
- Time-Varying Edit/Playback capability
- Playback intensity control
- Playback time scale control
- Color Sequence editor interface
- Lighting Sequence Cue editor interface
- Flicker test script generation tool
- Lumenscript compiler and export
- 4GB onboard flash Lumenscript memory
- Multiple Color Spaces
  - CIE xy, u'v', l\*a\*b
- Simulated optical output display
- CRI Ra, R9 and CQS calculation
- Variable display window axis control
- Software remote control



### Specifications

**Diameter:** 12" (305mm)

**Height:** 9.25" (233mm)

**Mounting:** Suspended for down-light, or pedestal mount for up-light. Provide free airflow. Ambient temperature range 10C to 45C.

**Electrical:** 100-240VAC 50/60Hz, 2.5A Maximum

**Program Interconnect:** RJ45, Ethernet, DHCP, TCP/IP, Telnet

**Weight:** 12lbs (5.4kg)

