## Other products from Venture to help the Commercial Grower and Hobby Grower

### SUNMASTER®

**ELECTRONIC BALLAST**

- 400W Plus
- 600W Plus
- Complete with shielded output cable for HF interference free operation.
- Completely silent operation and lightweight
- Maintained Lumen output through life

### SUNMASTER®

**Compact 600W Complete Ballast Unit**

- 600W Double insulated Ballast
- Integrated high performance ignitor
- Full power factor correction capacitors.
- Complete with mains input and lamp output leads.

### SUNMASTER®

### i-pac Ballast and 'Connecton' Module

- Available in 400W and 600W
- Easy to fit ignitor/capacitor module
- Fastens directly onto your ballast, no wiring required.

VENTURE® LIGHTING


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# Sunmaster® Dual Spectrum Lamp

# One lamp

# for the complete growing cycle

VENTURE® LIGHTING

SUNMASTER® GROW LAMPS

# One lamp to promote strong healthy plants throughout the growth cycle

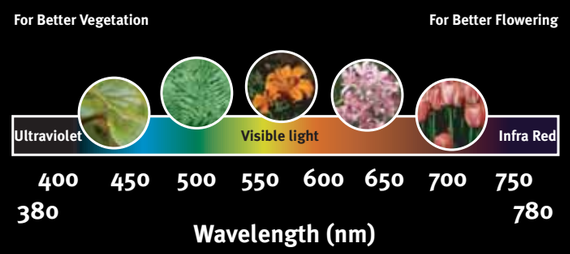
## To grow strong and healthy, plants need light. But not just any light. They thrive on specific parts of the light spectrum.

At different times in the growing cycle, plants require different types of light radiation. Immature plants have different needs to those about to mature.

To maximise the potential of a plant, to ensure that it grows strong and healthy, you need to deliver just the right kind of light radiation it needs - when it needs it.

The NEW Sunmaster Dual Spectrum lamp is a radically new, scientifically-developed lamp designed for the commercial and hobby grower.

Using the new Dual Spectrum lamps - which are fully compatible with your existing fittings and ballasts - you can deliver improved blue and red light to your plants at the crucial stages in their development. And it's so simple to do.




### Stage One - Early Plant Growth

In all stages of plant growth, healthy photosynthesis is the key. For photosynthesis, plants need spectral light between 400 and 700 nanometers. This is technically known as 'Photosynthetically Active Radiation' or PAR.However, in younger plants it is the region between 400 nm and 550nm that's most crucial. This region is commonly referred to as 'Blue Light'.

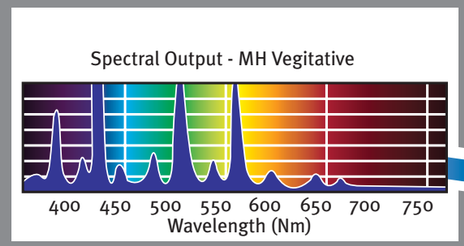
### Stage Two - Maturity

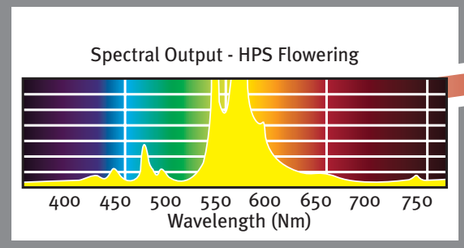
A maturing plant has markedly different needs to a younger plant. As it approaches maturity, it requires less of the 'Blue Light' and depends more upon radiation from the 'Red' portion of the spectrum between 550 and 700 nm.

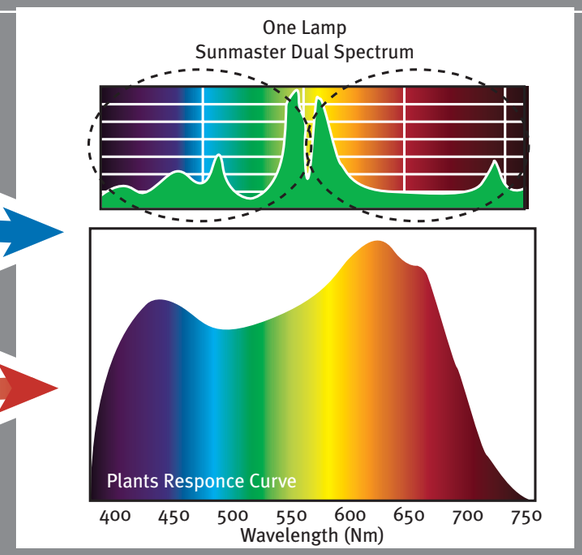
For optimum results it is always recommended that Metal Halide lamps, which deliver the optimum ‘blue light’ frequency, are installed to promote early plant growth and then as plants reached maturity they were changed to HPS lamps which deliver ‘Red Light’ to promote flowering.

The new Sunmaster Dual Spectrum range cleverly combines extra blue and red into one dual spectrum lamp

## New Dual Spectrum lamp




### Specification Chart

| Watts | Cat No | Part No | Base | Control Gear |
|---|---|---|---|---|
| 250 | 10037 | SL.250W.U46.DSP | E40 | HPS |
| 400 | 10035 | SL.400W.U46.DSP | E40 | HPS |
| 600 | 10036 | SL.600W.U46.DSP | E40 | HPS |
| 1000 | 10038 | SL.1000W.U65.DSP | E40 | HPS |

- Available in 250 400 600 and 1000W
- Fully compatible with existing fittings and Ballasts
- Superior lamp performance
- Energy efficient avoiding excess heat generation
- Designed to provide optimum plant growth

Effective lighting is the main determining ingredient for the production of strong, healthy plants. No other variable (nutrient rations, $CO_2$ enhancement, or growth medium) surpasses the importance and overall power of light as it relates to the success of any growing system.

The spectral output of light (wavelength) is measured in nanometers. Most plants utilise energy between 400 and 700 nanometers but require different frequencies within this spectrum depending on the position within their cycle.

### Why use Sunmaster Dual Spectrum Lamps

- Produces higher chlorophyll level for greener healthier plants
- Promotes larger leaf area/mass
- Inhibits unnatural stem elongation
- Encourages increased number of internodes while maintaining compact plant
- Produces thicker primary stems
- Improved blue and red compared to standard HPS
- Encourages earlier flowering and total number of flowers
- Supports accelerated linear growth
- Increases total number of branches as well as internodes
- Delivers higher fruit weight
- Produces higher yields (total biomass)