

# 12 Die High Power Mixing LED

**1xR-XM01-00xA-SC201-CON25.**

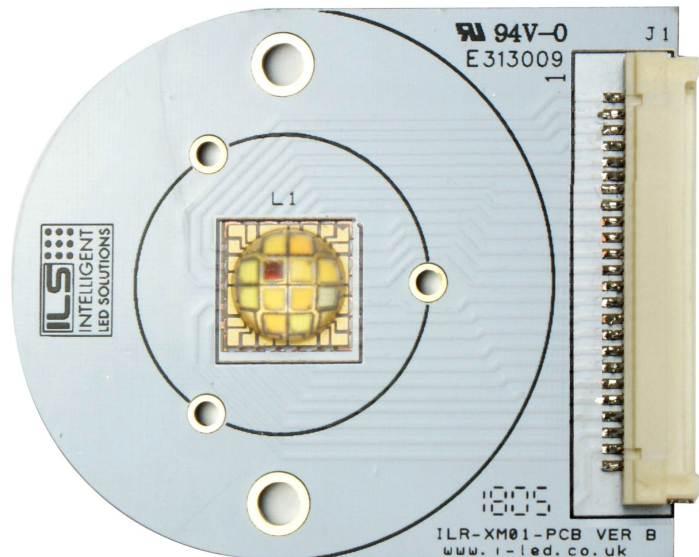
## Product Overview

The 1xR-XM01-00xA-SC201-CON25. has at its heart, a 12 die T9090 multi-chip package from Taiwan Semiconductor Limited. Each of the 12 die are independently connected, allowing for full flexibility and control. The MCPCB based product, also has a standard 25way Molex connector for simple interconnect to your control equipment.

Mounting of the 1xR-XM01-00xA-SC201-CON25. couldn't be simpler, as it fits on the industry standard Zhaga footprint, and is designed to work with LEDiL Hekla connectors and mating reflectors.

## Applications

- General Lighting
- Decorative Lighting
- Task Lighting
- Horticultural Lighting
- Architectural Lighting
- Retail and Entertainment Lighting
- Speciality Lighting
- Medical and Analytical Lighting
- Infrared Illumination
- Full Spectrum Illumination



## Technical Features

- 1xR-XM01 family has an integral 140 degree silicone lens
- Matching reflectors are available
- Industry standard 25 way connector built-in
- 25 way mating cable available
- Individual control of all 12 LED Die
- Size (L x W x H): 55mm x 45mm x 5mm
- Also available as a ultra-compact 9mm x 9mm LED
- Mounting holes using industry standard Zhaga format
- Secondary heat sinks available
- Matching power supply available

## ILR-XM01-001A-SC201-CON25.

### 12 Die LED array version 001A – Full Spectrum

The ILR-XM01 Full spectrum version allows users to control 12 individual die ranging from 360nm to 955nm. These full spectrum light engines offer unparalleled ability to investigate the cause and effect of various wavelengths for your spectral analysis.

#### LED configuration:

● B	Red	620-630nm
● C	UV	380-390nm
● E	Deep Blue	445-465nm
● F	IR	840-870nm
● G	Green	490-535nm
● H	Amber	580-600nm

● J	Far Red	720-740nm
● K	IR	925-955nm
● L	UV	360-370nm
● M	Hyper Red	650-670nm
● P	Warm White	<3750K
● Q	Cool White	>4750K

## IHR-XM01-002A-SC201-CON25.

### 12 Die LED array version 002A – Horticultural

The IHR-XM01 Horticultural version enables users to investigate how different wavelengths and radiant intensities affect the specific needs of different plants. These light engines allow the creation of customised spectral outputs to match your target requirement.

#### LED configuration:

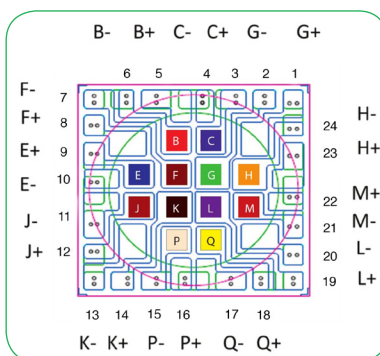
● B	Cool White	>4750K
● C	UV	380-390nm
● E	Deep Blue	445-465nm
● F	Hyper Red	650-670nm
● G	Far Red	720-740nm
● H	True Green	525-530nm

● J	Far Red	720-740nm
● K	True Green	525-530nm
● L	UV	380-390nm
● M	Hyper Red	650-670nm
● P	Warm White	<3750K
● Q	Deep Blue	445-465nm

## ILR-XM01-003A-SC201-CON25.

### 12 Die LED array version 003A – Tuneable White

Simple Tuneable white products just offer whites of differing CCTs to create the colour changing profiles. This process works, but the resultant output does not follow the black body across all available outputs, and also the CRI can suffer across the output spectra.



## ILR-XM01-004A-SC201-CON25.

### 12 Die LED array version 004A – White & IR

Many camera systems nowadays are required to not just work in one range of the spectrum i.e. IR and White light. The ILR-XM01 White & IR product enables users to investigate the use of multiple different IR wavelengths alongside white light in their application.

#### LED configuration:

● B	Neutral White	3750-4750K
● C	Warm White	<3750K
● E	Cool White	>4750K
● F	Red	620-630nm
● G	Neutral White	3750-4750K
● H	PC Amber	610nm

● J	Cool White	>4750K
● K	Neutral White	3750-4750K
● L	Warm White	<3750K
● M	Green	525-530nm
● P	Warm White	<3750K
● Q	Cool White	>4750K

#### LED configuration:

● B	IR	925-955nm
● C	IR	840-870nm
● E	Cool White	>4750K
● F	IR	840-870nm
● G	Cool White	>4750K
● H	Far Red	720-740nm

● J	Far Red	720-740nm
● K	IR	925-955nm
● L	Far Red	720-740nm
● M	IR	925-955nm
● P	IR	840-870nm
● Q	Cool White	>4750K

## ILR-XM01-005A-SC201-CON25.

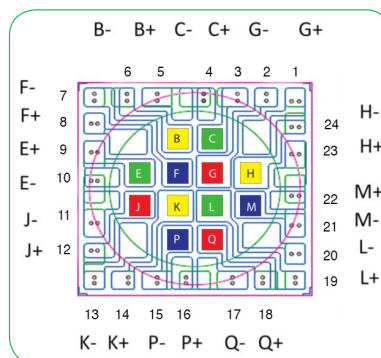
### 12 Die LED array version 005A – RGBW

The ILR-XM01 RGBW product offers control of 12 individual die, 3 of each colour, for full high intensity tuneable performance.

#### LED configuration:

● B	White	5000-8000K
● C	Green	515-530nm
● E	Green	515-530nm
● F	Blue	450-460nm
● G	Red	620-635nm
● H	White	5000-8000K

● J	Red	620-635nm
● K	White	5000-8000K
● L	Green	515-530nm
● M	Blue	450-460nm
● P	Blue	450-460nm
● Q	Red	620-635nm



## For further information please contact IHS

The values contained in this data sheet can change due to technical innovations. Any such changes will be made without separate notification.

Intelligent Horticultural Solutions is a division of Intelligent LED Solutions, focusing on providing LED solutions to the rapidly evolving and highly important horticultural lighting market.