DIGITAL PROJECTION

A Delta Associate Company

SATELLITE

MODULAR LASER SYSTEM

Satellite Projection Heads and Modular RGB Laser Light Sources

Simple building blocks for complex installations

www.digitalprojection.com

The Visionaries' Choice

SATELLITE
MODULAR LASER SYSTEM

COMPACT
PROJECTION HEADS

MODULAR
RGB LASER LIGHT SOURCE

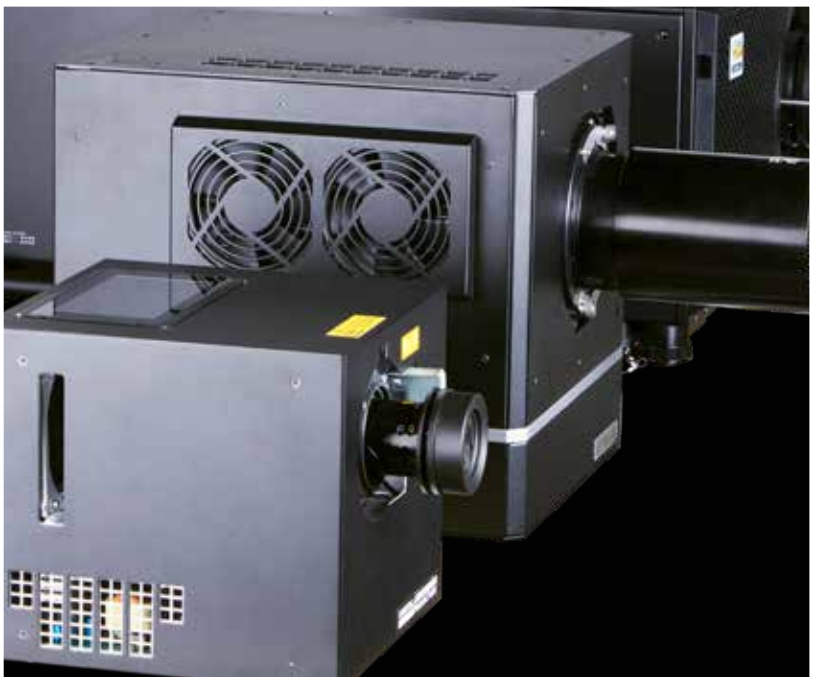
WUXGA
RESOLUTION

4K
RESOLUTION

8K
RESOLUTION

40,000
LUMEN

4K - HFR
MULTIVIEW



SATELLITE MODULAR LASER SYSTEM

The simple building blocks for complex installations

The projector "Head" is fundamentally compact, quiet, light-weight and consumes very little power. This simplifies and improves every stage of a system design, from transportation and installation to serviceability and lifespan. By separating the projection "Head" from the light source and linking the two by robust and flexible fibre-optic cables up to 100m long, we offer the installer true flexibility, particularly where space and access are restricted. Compare the installation and rigging of "Heads" weighing in at between 10kg and 35kg, with that of more traditional integrated projectors that can weigh as much as 150kg!

A NEW APPROACH TO PROJECTION

Separate Projection heads with a modular light source

The projector market is now widely converted to solid-state illumination. Most projectors are now "Lasers", but in the majority of cases this means that blue lasers are used to stimulate phosphor, which in turn emits broad spectrum light. This has great benefits over traditional lamps in terms of life, stability and reliability, and some amazing Laser Phosphor projectors are now available, however this technology is becoming mature and has certain practical limitations.

In the Large Venue space, as Laser Phosphor projectors get brighter, they are inevitably becoming larger, heavier, and more power hungry; factors which together can create challenges for many installations and applications. Laser Phosphor technology has transformed the projector market and will continue to be a cost effective solution for many applications, however we should consider what other approaches can complement and perhaps in the longer term, replace it.

In parallel with further improving its Laser Phosphor illumination, Digital Projection has been exploring direct RGB Laser Illumination, which offers the same benefits as Laser Phosphor in terms of life and stability, but adds truly amazing colour and contrast. In addition to the on-screen benefits that RGB laser illumination offers, the nature of the emitted light from these direct lasers facilitates their efficient coupling into fibre optic cables.

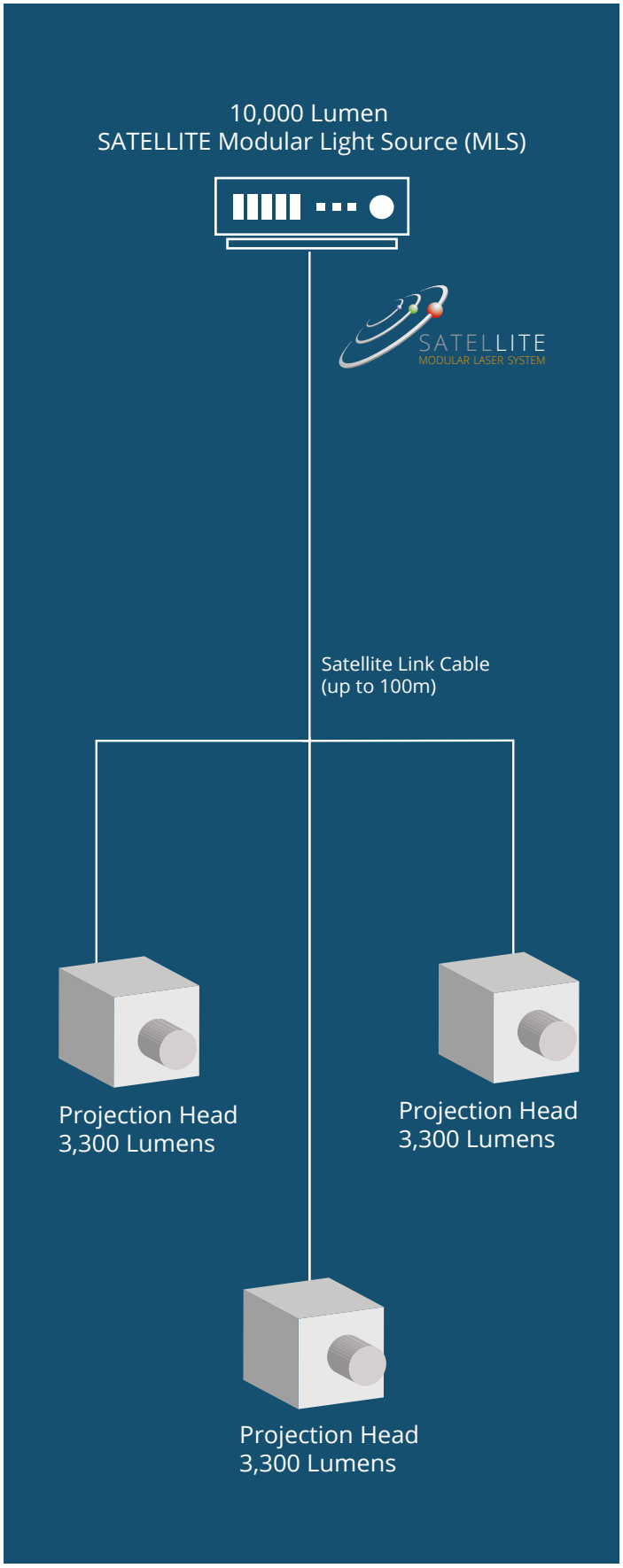
This fundamental characteristic of direct RGB Lasers is the basis of our new approach: separating the light source, with its associated power and thermal management, to a remote location, thus enabling a small, compact projection "Head" that only contains the minimal optical and video processing.

We call our new approach, Satellite MLS: Satellite MLS offers a small number of simple building blocks that allow users to address a wide range of applications, from single projector installs to complex, multi-channel domes, caves and simulators.

Our novel approach to the design, coupled to the rapid evolution of cost effective RGB Lasers, will enable us to offer all of these benefits at a cost effective price point. Where RGB laser illumination used to be the preserve of only very high end applications, the Digital Projection Satellite MLS system will make this technology accessible to the wider AV market.

SATELLITE
MODULAR LASER SYSTEM

> *"SATELLITE offers a small number of simple building blocks that allows users to address a wide range of applications, from single projector installs to complex, multi-projection domes, caves and simulators."*



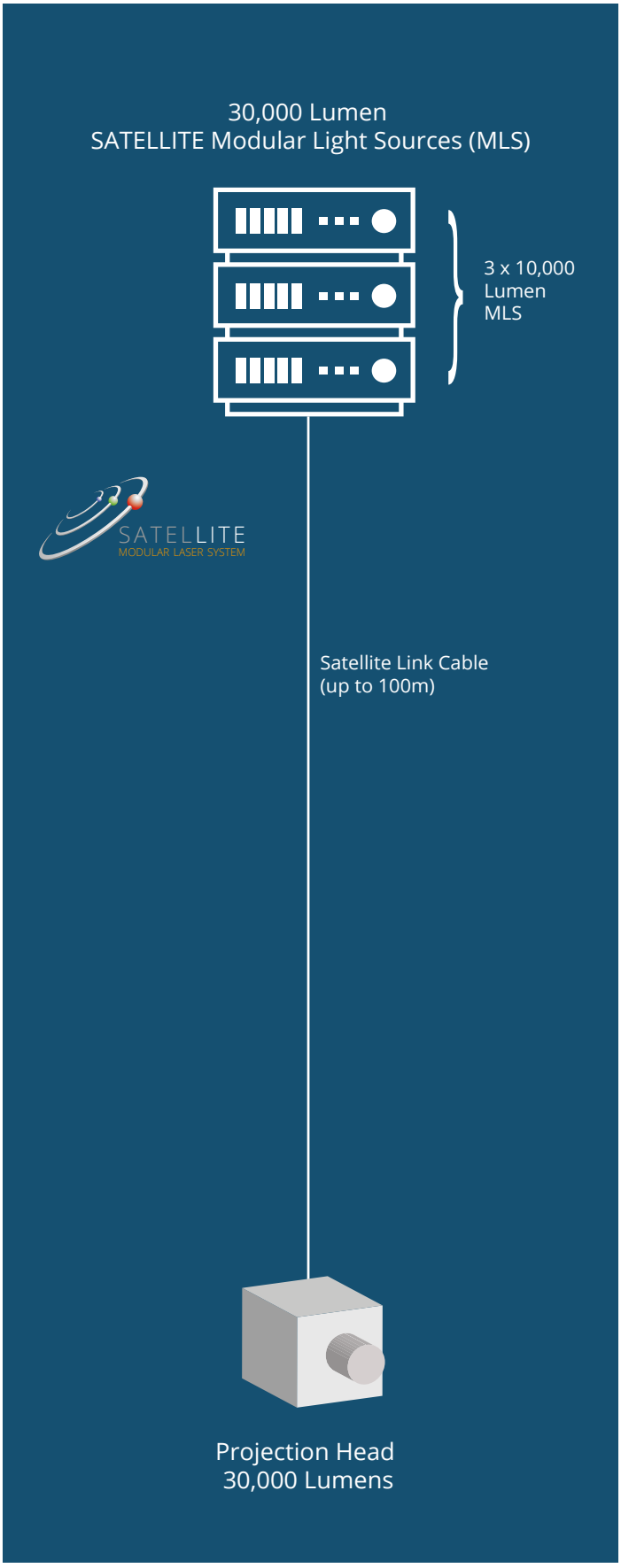
FEED MULTIPLE PROJECTION HEADS FROM 1 X MLS

In a one-to-many relationship, a single 10,000 lumen Modular Lght Source (MLS) can feed multiple projection "Heads", equally splitting – and precisely controlling the luminance of each image through the life of the system. Such proprietary, intelligent control mechanisms will not only ensure unparalleled matching of any number of channels, but also dramatically reduce system downtime for scheduled maintenance.

Many multi - projector installations require only relatively low luminance per channel. In additional to the unparalleled performance benefits, Satellite MLS also becomes an extremely cost effective means to achieving great results

ONE - TO - MANY RELATIONSHIP

one Modular Light Source (MLS) - multiple projection heads



FEED ONE PROJECTION HEAD FROM MULTIPLE MLS

In a many-to-one relationship, multiple 10,000 lumen Modular Light Sources (MLS) can be combined to feed a single, ultra-compact projection "Head", resulting in a lumens-per-kilogram ratio that far surpasses anything that precedes it. To achieve comparable luminance using a conventional, integrated projector would mean finding space for a product that weighs hundreds of kilos and requires a dedicated projection room due to its physical dimensions – not to mention the logistical and serviceability challenges created by such a product.

MANY - TO - ONE RELATIONSHIP

multiple Modular Light Sources (MLS) - one projection head

SATELLITE

MODULAR LASER SYSTEM

Laser class Statement:
Class 1 RG3 Laser Product
No direct exposure to the beam shall be permitted, RG3 IEC 62471-5:2015
Operators shall control access to the beam within the hazard distance or install the product at a height that will prevent exposure of the spectator's eyes within the hazard distance

Global Headquarters
Digital Projection Limited
Greenside Way,
Middleton, Manchester,
M24 1XX, UK

(P) +44 (0)161 947 3300
(F) +44 (0)161 684 7674

www.digitalprojection.com

Global Offices

- Manchester, UK
- Atlanta, GA USA
- Stuttgart, Germany
- Paris, France
- Dubai, UAE
- Fredrikstad, Norway
- Westervoort, Netherlands
- Moscow, Russia
- Beijing, China
- Guangzhou, China
- Shanghai, China
- Singapore
- Delhi, India
- Tokyo, Japan
- Seoul, South Korea