

# LD 33 Spectrum RGBY

## Laser Display Systems



Type:	full colour OPSL/semiconductor diode laser system
Guaranteed optical output:	33W
Suitable for:	outdoor laser displays and laser graphics
System control:	inbuilt Pangolin FB-MAX QS [upgrade to Beyond is available], Pangolin QuickShow 4.0 laser control and creation software is included.
Control signal:	Ethernet, ILDA, ArtNet, DMX and SD card
Scanning system:	Saturn 9   30kpps @ 7°
Safety:	fully complies with the latest EN 60825-1, FDA regulations and TUV Laser Safety
Weight:	37kg
Includes:	heavy duty flight case, power lead, 25M ILDA signal cable, E-STOP remote with 25M cable, set of 4 safety keys, interlock connector, USB with PDF manual.
R   G   B   Y [mW]:	7000   10000   11500   5000
Beam size [mm]:	10x10
Beam divergence:	<0.5mrad [full angle]
Modulation:	analog, up to 50kHz
Power requirements:	100-230V/50Hz
Consumption:	max. 900VA
Operation temperature:	10-35°C
Ingress protection rating:	IP54
System features:	All the basic control settings such as X & Y sizes, scan-fail safety settings etc. are adjusted digitally using inbuilt interface. This systems also features scanning system protection and daisy chain of emergency STOP signal for multiple system "one-hit" operation.
Integrated laser safety features:	Keyed interlock, emission delay, magnetic interlock, scan-fail safety, V-RAD 506 mechanical shutter   reaction time <20ms, adjustable aperture masking plate.

"LD" or so called Low Divergence "upgrade" affects the laser beam so it is bit thicker at the source, but much more coherent further away. And that makes it more than twice as bright and visible at distance when compared to standard systems.

LD upgrade is available for some of the Atom and all Spectrum series systems including RGBY models. And because here we use the state of the art Saturn scanning as standard, the high speeds and precision of scanning is sustainable even with slightly thicker beams.

- LD is twice as bright as ordinary laser display system
- LD offers less than **0.5 mrad** laser beam divergence, measured at **full angle**
- LD has fast and precise Saturn9 scanning

This robust system is built for touring and it takes advantage of excellent beam properties based on the OPSL Coherent Taipan and KVANT's mastered semiconductor diode laser modules.

Simply put, the LD Spectrum is a sophisticated tool for your journey towards large and successful laser displays.

### Highlights of the LD Spectrum:

- Sharp, focused and very bright beam
- Precise **30kpps** Saturn 9 scanning as standard
- **Motorised dichroic filters** for quick and easy colour alignment via integrated FB4 interface or Pangolin Beyond software [optional]
- **IP54** construction.
- Integrated FB4-MAX control interface as standard with Pangolin QuickShow 4.0 laser control and creation software
- Radio controlled Emergency STOP remote [optional]