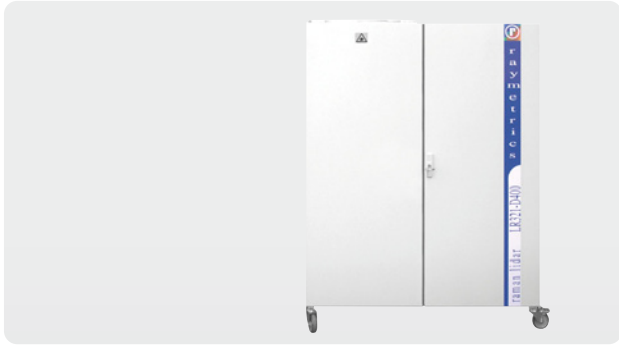


LR Series Raman Lidar



LR Series Raman Lidars

In addition to all the capabilities of the LB Series, LR Lidar systems offer detection of Raman shifted scattering from Nitrogen molecules. As a result the profiles of backscatter and extinction coefficient can be determined independently resulting in a significant reduction of associated uncertainties.

Detection of the Raman shifted backscatter from water vapour molecules is also easily added. This enables retrieval of water vapour mixing ratio profiles with high temporal and spatial resolution.

Thanks to the high laser power, optional 400 mm telescope and simultaneous detection of Elastic and Raman shifted backscatter, LR systems provide superior signal quality, accuracy and measurement range.

| Lidar Services & Consumables | Part number |
|--|----------------------|
| Installation and Training We offer a comprehensive on-site installation and training program for all Lidar systems, for up to three people The price includes our travel expenses and accommodation costs | |
| Fixed Fee - Inside Europe | LDR-INST-EUR |
| Fixed Fee - Outside Europe | LDR-INST-GLOB |
| Extended Warranty | |
| An Extended Warranty Program is available | On request |
| Maintenance Contract | |
| A Maintenance Contract is available | On request |
| Consumables Kit | |
| Lidar Consumable Kit for 1 year typical operation Containing: 4 Flash Lamps, 1 Laser De-ionizing Cartridge, 1 Cooling System Filter | LDR-CONS-KIT |

| Distribution |
|--|
| Lidar Systems designed and produced by Raymetrics of Greece are distributed exclusively by Kipp & Zonen worldwide (with the exception of Greece and Cyprus) |

Specifications

| | |
|-----------------------------------|----------------|
| Measurement range | 0.4 to 20 km |
| Temporal resolution | Down to 12 s |
| Spatial resolution | Down to 3.75 m |
| Energy per pulse | Up to 120 mJ |
| Repetition rate | 10 to 20 Hz |
| Pulse duration | 7 to 9 ns |
| Telescope diameter, Cassegrainian | 200 or 400 mm |

Article

Part number

LR Series

Complete turn-key Raman Light Detection and Ranging Systems

Modular design in a single enclosure supplied complete with on-board PC and screen and specially developed software for easy set-up and configuration, data storage, processing and visualisation

Detailed specifications of system configurations can be found in the Lidar brochure

Part number Code LR-XYZ-W-D

LR = Lidar Series
 X = number of transmitted wavelengths
 Y = number of depolarisation channels
 Z = number of Raman detection channels
 W = transmitted wavelengths U (355 nm), V (532 nm), I (1064 nm)
 D = Telescope diameter (200 mm or 400 mm)

Example LR Lidar Systems

| | |
|--|----------------------|
| UV-Lidar , elastic detection at 355 nm, Raman detection at 387 nm | LR-101-U-200 |
| UV-Lidar , elastic detection at 355 nm, Raman detection at 387 nm + depolarisation channel at 355 nm | LR-111-U-200 |
| UV-Lidar , elastic detection at 355 nm, Raman detection at 387 nm | LR-101-U-400 |
| UV-Lidar , elastic detection at 355 nm, Raman detection at 387 nm + depolarisation channel at 355 nm | LR-111-U-400 |
| UV-Lidar , elastic detection at 355 nm, Raman detection at 387 nm + Raman detection at 408 nm Water Vapour | LR-102-U-400 |
| UV-Lidar , elastic detection at 355 nm and 532 nm + Raman detection at 387 nm | LR-201-VU-400 |

Eye Safety

Beam Expansion where eye-safety is a critical issue **On request**
 This is dependant upon the transmitted wavelengths and power

Temperature

Climate Control, extends operating temperature range **On request**

*Note: The above are examples of typical LR Series Lidar Systems
 Please contact Kipp & Zonen for the most suitable configuration and the applicable price*

*Note: For Lidar systems, installation and training are offered separately
 Please consult the Lidar Services and Consumables page*

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