

# Large Loop Antenna (Van Veen Loop) RF300

## For EMC Emissions Testing of Luminaires according to EN 55015

- Fully compliant with CISPR15
- Complete 3 axis design.
- Fully calibrated, 9KHz—30MHz.
- Simple to erect..
- Affordable - low cost.
- Compatible with any EMC receiver or analyser.



The RF300 is a fully compliant and calibrated 2 metre diameter triple Van Veen Loop. This antenna is specifically manufactured in accordance with CISPR16 for the compliance testing of luminaires as required by EN 55015.

The RF300 is complete with 3 axes loops and all cables and loop selector patch panel.

The supporting structure features a rigid non-metallic PVC frame designed for ease of assembly yet reducing to a compact size for transportation and storage.

The current sensors fitted to each loop feature a fully screened passive inductor design that avoids any issues related to overload or compression.

An optional calibration loop (RF300C) is available. This includes a stand and pivot adaptors to enable use with vertical and horizontal loops. Use of the calibration loop ensures that on-site calibration can be achieved, thus eliminating any effects due to the surroundings. Note that a suitable signal source with 1v rms, 50 ohm output is required (not included with the RF300C).

### RF300 SPECIFICATION

Design:	Fully compliant with CISPR15/ EN 55015	
Loops:	Triple independent loops, 2m diameter.	
Frequency:	9KHz—30MHz.	
Sensors:	Matched, inductively coupled current sensors.	
Selector:	Loop selection by patch panel.	
Output:	50 ohm BNC.	
Cabling:	Each loop includes co-ax cable fitted with ferrite toroids, plus 5m output cable.	
Calibration:	Each axis individually calibrated according to CISPR16. Certificate and calibration data included.	
Antenna factor:	Matched to CISPR16. 9KHz—30MHz,	
Power required:	None.	
Physical:	Height:	2.6m
	Width (X and Y):	2.1m
Shipping weight:	30kg	

### RF300C Calibration loop

Design:	Strictly in accordance with CISPR16	
Axis:	Adaptors included for vertical and horizontal loops.	
Rotation:	Full 360 degree rotation in any axis.	
Input:	5m BNC—BNC cable included.	
Not included:	Signal source.	

Other EMC test systems from Laplace cover the complete range of tests required for CE and international compliance. See our web site for details.

### LAPLACE INSTRUMENTS LTD

Tudor House, Grammar School Road,  
North Walsham, Norfolk, NR28 9JH, UK  
Tel: +44 (0) 16 92 40 20 70  
Web: [www.laplace.co.uk](http://www.laplace.co.uk)  
E-mail: [tech@laplace.co.uk](mailto:tech@laplace.co.uk)

