



ABN 43 064 478 842

231 Osborne Avenue Clayton South, VIC 3169
PO Box 1548, Clayton South, VIC 3169
t 03 9265 7400 f 03 9558 0875
freecall 1800 680 680
www.tmgtestequipment.com.au

Test & Measurement

- > sales
- > rentals
- > calibration
- > repair
- > disposal

Complimentary Reference Material

This PDF has been made available as a complimentary service for you to assist in evaluating this model for your testing requirements.

TMG offers a wide range of test equipment solutions, from renting short to long term, buying refurbished and purchasing new. Financing options, such as Financial Rental, and Leasing are also available on application.

TMG will assist if you are unsure whether this model will suit your requirements.

Call TMG if you need to organise repair and/or calibrate your unit.

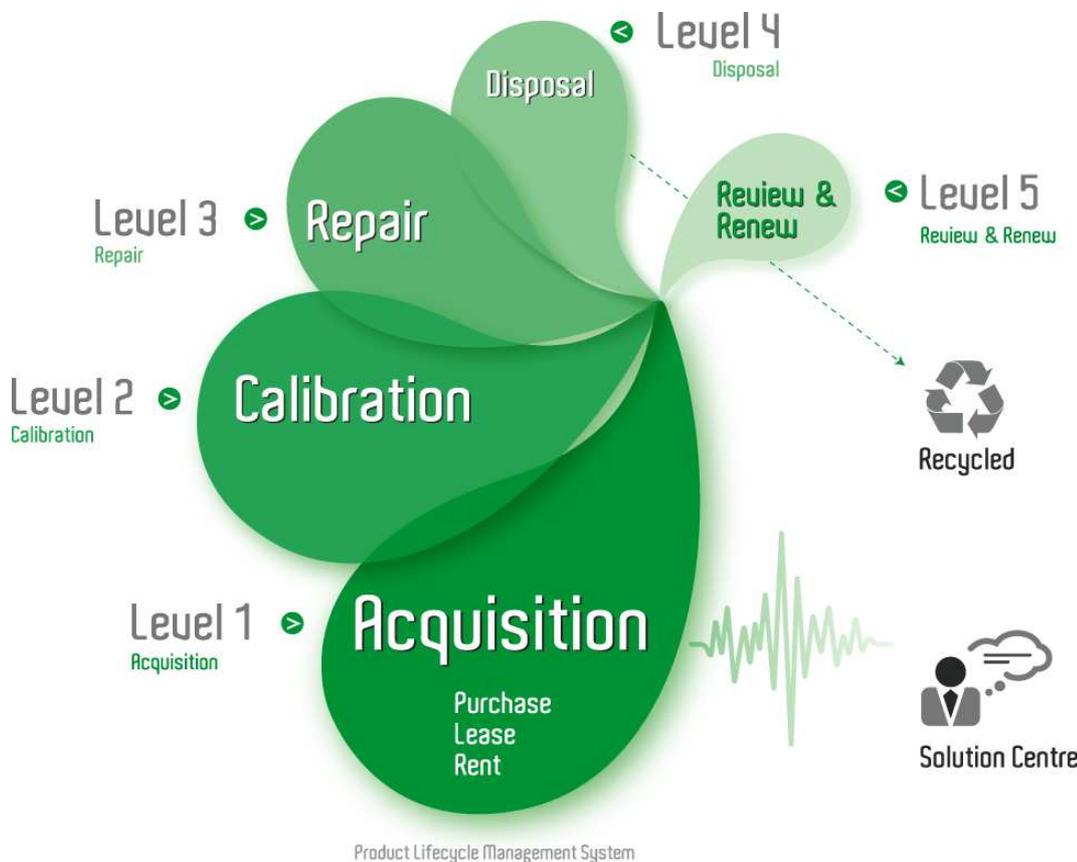
If you click on the "Click-to-Call" logo below, you can call us for FREE!

TMG Corporate Website

TMG Products Website



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Product Lifecycle Management System

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SHF Antennas

Log-Periodic Antennas

R&S® HL 050/R&S® HL 050S1



850 MHz to 26.5 GHz

Log-periodic directional antennas for
linear polarization

Features

- ◆ Extremely wide frequency range
- ◆ Rotation-symmetrical radiation patterns
- ◆ High gain due to V-shaped configuration of antenna elements
- ◆ Ideal for use as a feed for the Microwave Directional Antenna R&S® AC008 and the SHF Directional Antenna Systems R&S® AC090 to R&S® AC300

Brief description

Due to its broadband characteristics, the Log-Periodic Antenna R&S® HL050 is particularly suitable for radiomonitoring and measurements.

When used as a feed in reflector antennas, the antenna offers optimum secondary radiation characteristics due to its almost rotation-symmetrical radiation pattern.

The R&S® HL050 can be used as a separate antenna or as a feed for the Microwave Directional Antenna R&S® AC008.

The R&S® HL050S1 is of identical design and used as a feed for the SHF Directional Antenna Systems R&S® AC090 to R&S® AC300.



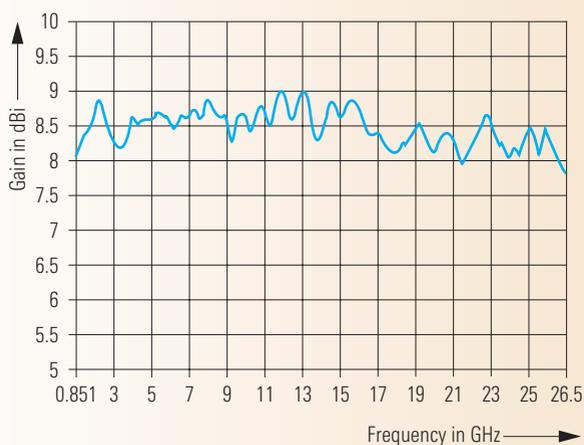
Specifications

Frequency range	850 MHz to 26.5 GHz	Operating temperature range	-30 °C to +55 °C
Polarization	linear	Max. wind speed	180 km/h (without ice deposit)
Input impedance	50 Ω	Dimensions (diameter × height)	
VSWR	≤2.5	With radome	approx. 210 mm × 300 mm
Max. input power	10 W to 2 W	Weight	approx. 0.7 kg
Gain	typ. 8.5 dBi		
Connector	PC 3.5 female		
MTBF	>1 000 000 h		

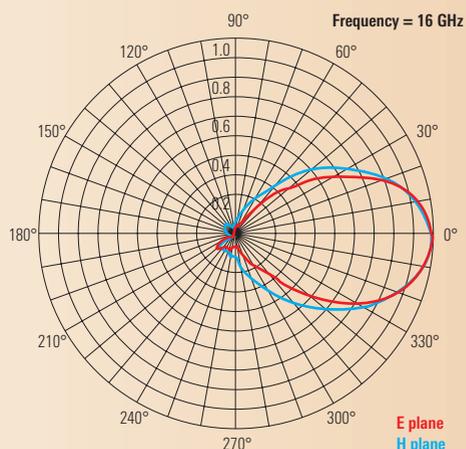
Ordering information

Log-Periodic Antenna	R&S®HL050	4062.4063.02
Log-Periodic Antenna	R&S®HL050S1	4065.0100.02

Recommended extras		
Microwave Cable, 5 m	R&S®AC008W2	0751.6931.04
Microwave Cable, 10 m	R&S®AC008W2	0751.6931.05
Mast Adapter	R&S®HL025-Z	0661.9910.02
Adapter for R&S®HZ-1	R&S®HL025Z1	4053.4006.02
Wooden Tripod	R&S®HZ-1	0837.2310.02



Typical gain



Typical radiation pattern