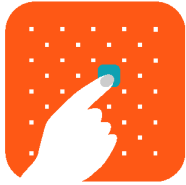


# Remote One - Analogue & Digital Radio Remote Monitoring Test Receiver



Easy to use



Portable



Light weight



Cost effective



CellMetric designs and manufactures innovative digital transmission & test systems.

Its products focus on reliability, ruggedness, modularity, intelligence and flexibility using leading edge digital technology.

CellMetric is based close to the centre of the historic university city of Cambridge, UK.

[www.cellmetric.co.uk](http://www.cellmetric.co.uk)



CellMetric's Remote One RF measurement receiver is designed to provide cost-effective, simple to use radio measurement and remote control for automotive production test systems, drive test and broadcast monitoring of analogue and digital RF transmissions.

The Remote One is fully expandable and flexible. It comprises four analogue RF receivers, each of which can be independently programmed to receive AM or FM. Additionally, the Remote One can provide up to 2 channels of DAB/DAB+ reception.

Tuning and control is exercised over a web server, which provides access to the measurement parameters derived by the receiver.

Alarms can be set on:

- RSSI
- S/N Ratio
- BER

## Automotive Test

On an automotive production line, the Remote One provides continuous, 24 x 7 RF signal monitoring of all AM, FM and DAB / DAB+ radio signals.

Remote alarms can be triggered by changes in RF level or BER of digital transmissions.

## Drive Test

In a drive test environment the Remote One can log received signal strength and S/N for received signals over its Ethernet control port.

## Broadcast Test

In the broadcast environment the rack mounted Remote One can simultaneously monitor AM, FM and DAB signals from up to 32 points in a broadcast transmission

## Features & Benefits

- Remote Web based monitoring of digital and analogue radio signals in one box
- Remote Radio backhaul over IP link option
- Built in Web Server provides universally accessible web interface with monitoring results
- Supports monitoring of:
  - Digital Radio
    - DAB
    - DAB+
  - Analogue Radio
    - FM
    - AM
- Measures
  - Signal Strength
  - Signal to Noise Ratio
  - BER for DAB signals
  - Spectrum measurement option
- Remote autotune
- Input RF multiplexer with up to 32 measurement points
- 8 RS232 auxiliary output control ports
- Applications
  - Cost effective for:
    - Production test monitoring
    - Drive Test
    - Remote broadcast monitoring

# Remote One RF Measurement Receiver

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## Intuitive user Interface

The Remote One has a highly intuitive web based user interface making selection of receive and measurement parameters simple.

## Remote Control

All Remote One functions are accessible via its Ethernet remote control port with inbuilt web server.

On connection, the Remote One will automatically provide control of its input multiplexer and radio tuners, and present the radio measurements on the remote user interface.

The Remote One also provides 8 RS232 ports under web control for configuring Modus RF Signal Generators

## Remote Radio Backhaul / Streaming (Option)

The Remote One has the ability to demodulate and backhaul audio content from any of the radio receivers, AM, FM and DAB/ DAB+ over IP.

## Remote Upgrade

The Remote One can be completely upgraded in the field using its file upload

### Ordering Information

Remote One RF Receiver	Remote One
Options	Additional 2 AM/FM Receivers
	Additional DAB/DAB+ Receiver
	Spectrum analysis
	Audio Backhaul

## Technical Specification

### Operating Conditions:

Power Supply voltage	100 to 260V 47-400 Hz AC
	12v DC input 3A Max.
Operating Temperature range	0 to +40°C

### Inputs:

#### Multiplexer input

Inputs	16 or 32 switchable RF inputs
Input Connector	SMA
Input Impedance	50 Ω

#### AM

Frequency Range	520—1710 KHz in 1KHz steps
Signal input level	28 dBuV Typ
Input Impedance	50 Ω
Measurements	Input power S/N ratio

#### FM

Frequency Range	64MHz to 108 MHz in 1KHz steps
Signal input level	6.9 dBuV Typ.
Input Impedance	50 Ω
Measurements	Input power S/N ratio

#### DAB / DAB+

Frequency Range	Band III and L band (option)
Signal input level	8 dBuV Typ.
input Impedance	50 Ω
Measurements	Input power BER

### Measurement Options;

RF spectrum Analysis  
Audio backhaul over IP

### Interfaces:

Serial Ethernet 10/100/1000 BaseT

### Remote Control:

Web Server—standard browser for display

### Installation:

19" Rack mount case 2U	483 W x 90mm H x 360mm D
Weight	2.5Kg



Infotainment Test Rack



CELLMetric

Intelligent infrastructure