

**MCR54** is a camera quadruple true diversity wireless microphone receiver system in a modular stand alone or slot in configuration



Multi-Band RF tuning  
Wideband just isn't enough anymore!  
Upgrade to a Multi-Band system with up 790 MHz tuning range to find your frequency, anywhere in the World.

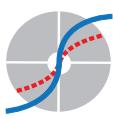


High Density  
with NB filters

With the combination of Narrowband Modulation and Linear transmitters, set your channels every 200kHz without intermodulation distortion and get an extra 3dB sensitivity.



True-Diversity Reliability  
With eight internal receiver boards, the MCR54 boasts an unprecedented capacity for range and reliability.



Multi  
Companding

DSP delivers ENC and ENR algorithms for perfect audio in any application with less than 1ms delay – with create and shape presets for the desired sound. It enables the use of third-party transmitters with Wisycom receivers



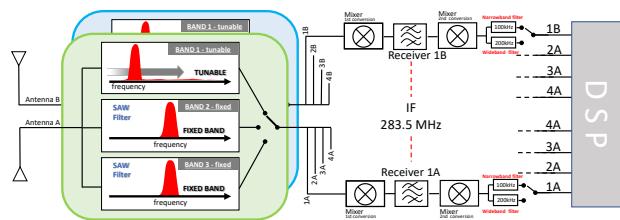
## OTHER FEATURES

- Modular configurations for stand-alone or slot-in formats
- Monitor & control through USB C or Bluetooth 5 (long range) on Wisycom Manager 2.0 (computer SW)
- High contrast OLED display and 4 buttons enable quick manual setup
- DSP Analogue & Digital Audio Output (AES3)
- Extreme low noise VCO with ultrafast spectrum scan for optimal quick & easy setup
- Wisycom exclusive digital sub-carrier telemetry technology enables:
  - » remote TX battery monitoring
  - » advanced tone-squelch operating
  - » Push-to-talk function (via optional back-panel module)
- Rear antenna connectors and micro audio and power adapter

## CONFIGURATIONS

## FREQUENCY RANGE

B1 470÷800 MHz (tunable) + 960÷1000 MHz + 1045÷1071 MHz (UK DME)  
 B2 470÷800 MHz (tunable) + 823÷832 MHz + 940÷960 MHz (USA/EU)  
 B3 470÷800 MHz (tunable) + 806÷809 MHz + 1240÷1260 MHz (JP)



## ACCESSORIES &amp; RELATED

**Item: SL54-IK**

"Slot-in" compatible with:

- Sound Device SuperSlot (4 audio outs in capable devices, i.e. Sounddevices™ SL-2)
- MRK16 Multi Slot rack (4 audio out)
- Unislot (Ikegami, Panasonic cameras)

**Item: SL54-SX**

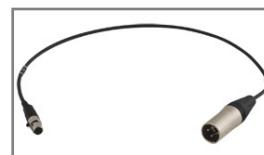
"Slot-in" kit for Sony camera.

NOTE: not all Sony cameras has the internal double pin enable. CHECK IF YOUR CAMERA SUPPORT 2 CH. ON SLOT-IN

**Item: BPA54**

"Stand alone" rear panel

- 2 mini XLR-5pin male outputs (for 4 analogue channels or 4 digital AES channels)
- 1 Hirose connector for external power

**Item: CAM50-41**

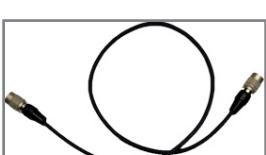
AF cable (50 cm),  
mini XLR-5F / 1 XLR-3M connector  
Line 1 feed XL3-M

**Item: CAM50-3**

AF cable (50 cm),  
mini XLR-5F / 2 XLR-3M connectors

**Item: CDC34**

External power feeding cable, hirose 4pin  
Male/raw wires (50 cm)

**Item: CDC34HM**

External power feeding cable, hirose 4pin  
Male/ hirose 4pin Male (50 cm)

**Item: PSP910-H**

AC/DC Power Supply, Switch Mode with Hirose 4 pin connector (to use one "desktop" apparatus alone)  
Input:100 ÷ 240V ac  
Output:12V@700mA, 8W, Plug type: EU

**Item: CAUSBC1**

USB Cable 1m  
USB B - USB C Male Black  
To monitor/control/power on MCR54 receiver

**Item: MRK16**

19" 1U rack with 4 slots for MCR54  
16 true div. wireless (4 x MCR54)Analog &  
digital output (Dante/AES3)  
Ethernet & bluetooth controls  
RF over fiber input (optional)

## CONFORMITY



47 CFR 15 Subpart B  
CAN RSS-Gen/CNR-Gen

## TECHNICAL SPECIFICATIONS

RF SPECIFICATIONS

AUDIO SPECIFICATIONS

OTHERS

## Frequency ranges

MCR54 B1: 470 ÷ 800 + 960÷1000 + 1045÷1071 MHz (UK)  
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## Switchable channels

2400 user programmable frequencies, organized in 40 groups of 60 channels

## Switching-window

up 790 MHz

## Frequencies

microprocessor controlled frequency synthesizer circuit, with 5 kHz minimum step.  
 The frequencies can be easily PC reprogrammed with USB C, Bluetooth 5 (long range) or optional UPKmini Programming

## Frequency error

&lt; ± 2.5 ppm, in the rated temperature range

## Modulation

FM mono, wideband or narrowband IFB (SW selectable)

## Peak deviation

±54 kHz (wideband), ± 40 kHz (narrowband)

## Antenna input impedance

50 ohm sma type (SWR &lt; 1:2; typ. 1:1.4)

## Sensitivity

2  $\mu$ V ( 6 dB $\mu$ V), for SND/N > 58 dB;  
 5  $\mu$ V (14 dB $\mu$ V), for SND/N > 98 dB  
 in the whole switching-window\*

## Amplitude response

< 0.5 dB (for RF input signal:6 dB $\mu$ V ÷ 100 dB $\mu$ V)

## Adjacent chan. selectivity

&gt; 80 dB typical (for channel spacing ≥ 400 kHz)

## Spurious emissions

&lt; 2 nW (typical = 0.1 pW)

## Noise Reduction system

ENR / ENR-1.2 (Wisecom Extended-NR) , noise optimized  
 ENC / ENC-1.2 (Wisecom Extended-NC), voice optimized & with reduced pre-emphasis  
 ENS (for live application)  
 Others, compatible with most systems, thru an internal DSP emulation of SA572, SA575 and Rms envelope compander chip set, fully user programmable

## AF bandwidth

30 Hz ÷ 20 kHz (wideband), 30 Hz ÷ 15 kHz (narrowband)

## Frequency response

± 0.5 dB in the 30 Hz ÷ 19 kHz range (wideband),  
 ± 0.5 dB in the 30 Hz ÷ 13 kHz (narrowband)

## Distortion

0.3 % typical

## SND/D ratio (Analogue)

120 dB typical\*

## SND/D ratio (Digital)

&gt; 125 dB typical

## Audio output

Electronically balanced on 5 pin mini-XLR Female connector analogue or digital (SW selectable)

## Digital sample rate

AES3 @ 48 kHz

## Monitor output

headphone 3.5 mm jack socket

## Managing interface

USB C, Bluetooth 5 (long range) or optional UPKmini Programming

## LEDs

2 multicolour RGB LEDs to easy indicates Power & Bluetooth  
 4 multicolour RGB LEDs to easy indicates the audio status of the 4 RX

## Display

OLED 128x64 (white)

## Powering

- External = 5 ÷ 18 Vdc (2.5 W max)  
 - Autonomous. = with optional BCA 54 Battery Module

## Power consumption

2.5 Watt max (with 4 active receivers)

## Temperature range

-10 ÷ +55 °C

## Dimensions

104 x 85 x 25 mm (H x W x D)

## Weight

230g

\*RMS value, 22 Hz / 22 kHz, unweighted

