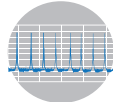


MCR54 is a camera quadruple true diversity wireless microphone receiver system in a modular stand alone or slot in configuration



### Multi-BAND RF

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.



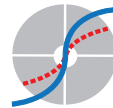
### High Density with NB filters

The combination of Narrow-band and Linear transmitters allow you to tune every 200kHz and the reduced RX bandwidth gives 3dB uplift in 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



### Bluetooth 5

Monitor & control through USB-C/Bluetooth (Wisycom Manager software)



## OTHER FEATURES

- Modular configurations for stand-alone or slot-in formats
- Monitor & control through USB C or Bluetooth 5 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<sup>1</sup> + 960÷1000 MHz + 1045÷1071 MHz (UK DME)

**B2** 470÷800 MHz<sup>1</sup> + 823÷832 MHz + 941÷960 MHz (USA/EU)

<sup>1</sup> version B1L or B2L is limited to 730 MHz

**B3** 470÷800 MHz + 806÷810 MHz + 1240÷1260 MHz (JP)<sup>2</sup>

**B5** 470÷800 MHz + 462÷465 MHz + 806÷810 MHz (JP)

<sup>2</sup> version B3L: 470-730 MHz + 806-810 MHz

## ACCESSORIES & RELATED



### Item: SLK54-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 cameras1)



### Item: SLK54-SX/SLK54-SX2

"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



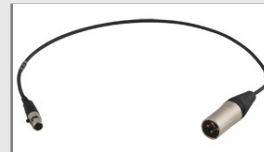
### Item: BCA54

Slot Wireless Module with lithim battery pack  
- 2 mini XLR-5pin male audio outputs  
- 1 Hirose connector for external power  
- battery pack for RRC2040 33.2Whr



### Item: CAM50-3

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



### Item: CAM50-41

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



### Item: CDC34

External power feeding cable  
CDC34: Hirose 4pin Male/raw wires (50 cm)  
CDC34HM: Hirose 4pin Male/ Hirose 4pin Male (50 cm)



### Item: PSP910-H

AC/DC Power Supply with Hirose 4 pin connector  
PSP910-H: Europa plug type  
PSP910-H-US: USA plug type



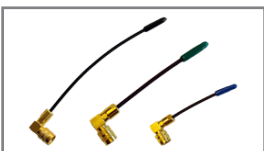
### Item: CAUSBC1

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)



### Item: AWS-xx-RA

Whip antenna, SMA connector, Right angle  
AWS-BK-RA: 470-608 MHz, black cap  
AWS-YL-RA: 572-694 MHz, yellow cap  
AWS-GN-RA: 670-870 MHz, green cap  
AWS-BL-RA: 820-1160 MHz, blue cap  
AWS-BK-RA-463: 430-500 MHz, black cap



### Item: AWS-xx

Whip antenna, SMA connector  
AWS-BK: 470-608 MHz, black cap  
AWS-YL: 572-694 MHz, yellow cap  
AWS-GN: 670-870 MHz, green cap  
AWS-BL: 820-1160 MHz, blue cap  
AWS-RD: 1060-1300 MHz, red cap

## CONFORMITY



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



**TECHNICAL SPECIFICATIONS**
**RF SPECIFICATIONS**

<b>Frequency ranges</b>	MCR54 B1: 470 ÷ 800 <sup>1</sup> + 961÷1000 + 1045÷1071 MHz (UK) MCR54 B2: 470 ÷ 800 <sup>1</sup> + 823÷832 + 941÷960 MHz (USA/EU) <sup>1</sup> version B1L or B2L is limited to 730 MHz MCR54 B3: 470 ÷ 800 + 806÷810 + 1240÷1260 MHz (JP) <sup>2</sup> <sup>2</sup> version B3L: 470-730 MHz + 806-810 MHz MCR54 B5: 470 ÷ 800 + 462÷465 + 806÷810 MHz (JP)
<b>Switchable channels</b>	2400 user programmable frequencies, organized in 40 groups of 60 channels
<b>Switching-window</b>	up 790 MHz
<b>Frequencies</b>	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
<b>Frequency error</b>	< ± 2.5 ppm, in the rated temperature range
<b>Modulation</b>	FM mono, wideband or narrowband IFB (SW selectable)
<b>Peak deviation</b>	±54 kHz (WB wideband FM), ± 40 kHz (NB narrowband FM)
<b>Antenna input impedance</b>	50 ohm sma type (SWR < 1:2; typ. 1:1.4)
<b>Sensitivity</b>	2 µV ( 6 dBµV, -101 dBm), for SND/N > 58 dB; in the whole switching-window*
<b>Amplitude response</b>	< 0.5 dB (for RF input signal:6 dBµV ÷ 100 dBµV)
<b>Adjacent chan. selectivity</b>	> 80 dB typical (for channel spacing ≥ 400 kHz)
<b>Spurious emissions</b>	< 2 nW (typical = 0.1 pW)

**AUDIO SPECIFICATIONS**

<b>Noise Reduction system</b>	ENR / ENR-1.2 (Wisycom Extended-NR) , noise optimized ENC / ENC-1.2 (Wisycom 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
<b>AF bandwidth</b>	30 Hz ÷ 20 kHz (WB), 30 Hz ÷ 17 kHz (NB)
<b>Frequency response</b>	± 1 dB in the 30 Hz ÷ 20 kHz range (WB) ± 1 dB in the 30 Hz ÷ 17 kHz (NB)
<b>Distortion</b>	0.3 % typical
<b>SND/D ratio (Analogue)</b>	120 dB typical*
<b>SND/D ratio (Digital)</b>	> 125 dB typical
<b>Audio output</b>	Electronically balanced on 5 pin mini-XLR Female connector analogue or digital (SW selectable)
<b>Digital sample rate</b>	AES3 @ 48 kHz
<b>Monitor output</b>	headphone 3.5 mm jack socket

**OTHERS**

<b>Managing interface</b>	USB C, Bluetooth 5
<b>LEDs</b>	2 multicolour RGB LEDs to easy indicates Power & Bluetooth 4 multicolour RGB LEDs to easy indicates the audio status of the 4 RX
<b>Display</b>	OLED 128x64 (white)
<b>Powering</b>	- External = 6 ÷ 18 Vdc (3 W max) - Autonomous. = with optional BCA 54 Battery Module
<b>Power consumption</b>	3 Watt max (with 4 active receivers), 2 Watt max (with 2 active receivers)
<b>Temperature range</b>	-10 ÷ +55 °C
<b>Dimensions</b>	104 x 85 x 25 mm (H x W x D)
<b>Weight</b>	230g

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

