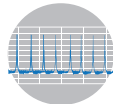


MCR54 is a camera quadruple true diversity wireless microphone receiver system in a modular stand alone or slot in configuration



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.



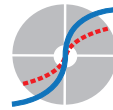
High Density with NB filters

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 MHz¹ + 960÷1000 MHz + 1045÷1071 MHz (UK DME)

B2 470÷800 MHz¹ + 823÷832 MHz + 941÷960 MHz (USA/EU)

¹ version B1L or B2L is limited to 730 MHz

B3 470÷800 MHz + 806÷810 MHz + 1240÷1260 MHz (JP)²

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

² 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



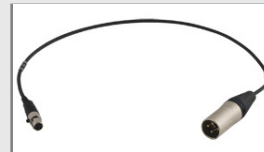
Item: BPA54
 "Stand alone" rear panel
 - 2 mini XLR-5pin male outputs (for 4 analogue channels or 4 digital AES channels)
 - 1 Hirose connector for external power



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)



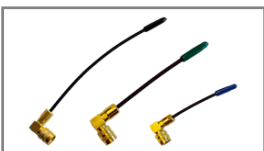
Item: PSP910-H
 AC/DC Power Supply with Hirose 4 pin connector
 PSP910-H: Europa plug type
 PSP910-H-US: USA plug type



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) Analogue & 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
AUDIO SPECIFICATIONS
OTHERS

| | |
|-----------------------------------|--|
| Frequency ranges | MCR54 B1: 470 ÷ 800 ¹ + 961÷1000 + 1045÷1071 MHz (UK) MCR54 B2: 470 ÷ 800 ¹ + 823÷832 + 941÷960 MHz (USA/EU) ¹ version B1L or B2L is limited to 730 MHz MCR54 B3: 470 ÷ 800 + 806÷810 + 1240÷1260 MHz (JP) ² ² version B3L: 470-730 MHz + 806-810 MHz MCR54 B5: 470 ÷ 800 + 462÷465 + 806÷810 MHz (JP) |
| 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 | < ± 2.5 ppm, in the rated temperature range |
| Modulation | FM mono, wideband or narrowband IFB (SW selectable) |
| Peak deviation | ±54 kHz (WB wideband FM), ± 40 kHz (NB narrowband FM) |
| Antenna input impedance | 50 ohm sma type (SWR < 1:2; typ. 1:1.4) |
| Sensitivity | 2 µV (6 dBµV, -101 dBm), for SND/N > 58 dB; in the whole switching-window* |
| Amplitude response | < 0.5 dB (for RF input signal:6 dBµV ÷ 100 dBµV) |
| Adjacent chan. selectivity | > 80 dB typical (for channel spacing ≥ 400 kHz) |
| Spurious emissions | < 2 nW (typical = 0.1 pW) |
| Noise Reduction system | 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 |
| AF bandwidth | 30 Hz ÷ 20 kHz (WB), 30 Hz ÷ 17 kHz (NB) |
| Frequency response | ± 1 dB in the 30 Hz ÷ 20 kHz range (WB) ± 1 dB in the 30 Hz ÷ 17 kHz (NB) |
| Distortion | 0.3 % typical |
| SND/D ratio (Analogue) | 120 dB typical* |
| SND/D ratio (Digital) | > 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 |
| 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 = 6 ÷ 18 Vdc (3 W max) - Autonomous. = with optional BCA 54 Battery Module |
| Power consumption | 3 Watt max (with 4 active receivers), 2 Watt max (with 2 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