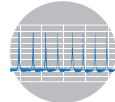MCR54 dual is a camera dual true diversity wireless microphone receiver system in a modular stand alone or slot in configuration.
Each receiver has a dedicated filter and then can be tuned independently.

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.
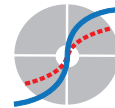
High Density with NB filters

The combination of Narrowband 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 Bluetooth (BT App) or USB-C (Wisycom Manager software)

OTHER FEATURES

- Modular configurations for stand-alone or slot-in formats

- Monitor & control through USB C (Wisycom Manager 3.2.1 or higher) or Bluetooth (BT App)

- 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 + 941÷960 MHz (USA/EU)

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

B5 470÷800 MHz (tunable) + 459÷466 MHz + 806÷810 MHz (JP)
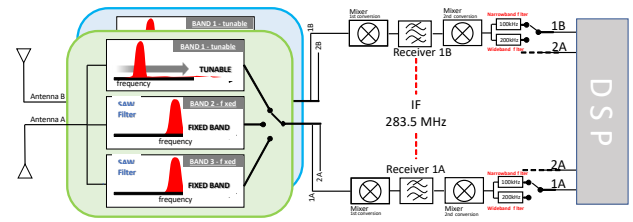
ACCESSORIES & RELATED

Item: SL54-IK
"Slot-in" compatible with:
- Sound Device SuperSlot (4 audio outs in capable devices, i.e. Soundevices™ SL-2)
- MRK16 Multi Slot rack (4 audio out)
- Unislot (Ikegami, Panasonic cameras1)

Item:SL54-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), only 2 ch for MCR54-DUAL
- 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
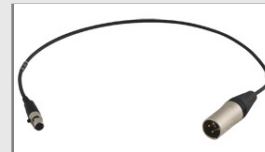
Item: CAM50-41
AF cable (50 cm),
mini XLR-5F / 1 XLR-3M connector
Line 1 feed XL3-M

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 & remote controls
RF over fiber input (optional)
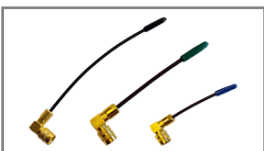
Item: AWS-xx-RA
Whip antenna, SMA connector, Right angle
AWS-BK-RA: 470-700 MHz, black cap
AWS-GN-RA: 670-870 MHz, green cap
AWS-BL-RA: 820-1160 MHz, blue cap

Item: AWx
Whip antenna, SMA connector
AWN42: 470-700 MHz, black cap
AWS-GN: 670-870 MHz, green cap
AWS-BL: 820-1160 MHz, blue cap
AWS-RD: 1060-1300 MHz, red cap

CONFORMITY

CE

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

TECHNICAL SPECIFICATIONS

RF SPECIFICATIONS

Frequency ranges	MCR54-DUAL B1: 470 ÷ 800 + 961÷1000 + 1045÷1075 MHz (UK) MCR54-DUAL B2: 470 ÷ 800 + 823÷832 + 941÷960 MHz (USA/EU) MCR54-DUAL B3: 470 ÷ 800 + 806÷810 + 1240÷1260 MHz (JP) MCR54-DUAL 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
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	> 60 dB typical (for channel spacing ≥ 400 kHz in WB and ≥ 250 kHz in NB)
Spurious emissions	< 2 nW (typical = 0.1 pW)

AUDIO SPECIFICATIONS

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 (wideband) ± 1 dB in the 30 Hz ÷ 17 kHz (narrowband)
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

OTHERS

Managing interface	USB C, Bluetooth 5
LEDs	2 multicolour RGB LEDs to easy indicates Power & Remote Control 2 multicolour RGB LEDs to easy indicates the audio status of the receivers
Display	OLED 128x64 (white)
Powering	- External = 6 ÷ 18 Vdc (3 W max) - Autonomous. = with optional BCA 54 Battery Module
Power consumption	1,85 Watt max (with 2 active receivers), 1,5 Watt max (with 1 active receiver)
Temperature range	-10 ÷ +55 °C
Dimensions	104 x 87,6 x 25 mm (H x W x D)
Weight	285g

*RMS value, 22 Hz / 22 kHz, unweighted