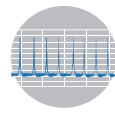


MCR54 is a camera quadruple *true diversity* wireless microphone receiver system in a modular stand alone or slot in configuration



**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.



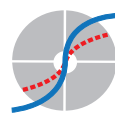
**High Density
with NB filters**

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



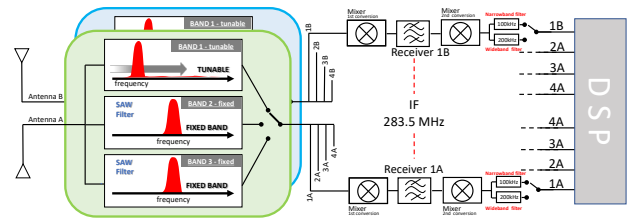
OTHER FEATURES

- 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 + 941÷960 MHz (USA/EU)
- B3** 470÷800 MHz (tunable) + 806÷810 MHz + 1240÷1260 MHz (JP)



ACCESSORIES & RELATED



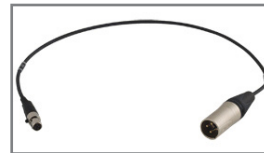
Item: SL54-IK
 "Slot-in" compatible with:
 - Sound Device SuperSlot (4 audio outs in capable devices, i.e. Sounddevices™ SL-2)
 - MRK16 Multi Slot rack (4 audio out)
 - Unislot (Ikegami, Panasonic cameras1)



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



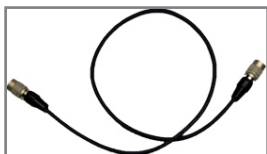
Item: CAM50-41
 AF cable (50 cm),
 mini XLR-5F / 1 XLR-3M connector
 Line 1 feed XL3-M



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: CAUSB C1
 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 + 961÷1000 + 1045÷1075 MHz (UK) MCR54 B2: 470 ÷ 800 + 823÷832 + 941÷960 MHz (USA/EU) MCR54 B3: 470 ÷ 800 + 806÷810 + 1240÷1260 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 ÷ 15 kHz (NB)
Frequency response	± 1 dB in the 30 Hz ÷ 20 kHz range (WB) ± 1 dB in the 30 Hz ÷ 15 kHz (WB)
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 (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

