DCHR

TECHNICAL DATA

Digital Camera Hop Receiver

DCHR, DCHR-B1C1

- **Tunes across a wide UHF frequency range**
- **256-bit encryption - AES 256-CTR**
- **AES3 and dual mic/line level analog outputs**
- **Headphone monitor output**
- **USB port for firmware updates**
- **Compatible with DCHT , M2T, M2T-X, and D2 Series transmitters (DBu, DHu, DPR-A)**
- **2-way IR (infrared) port for fast setup**
- **2 AA battery power**

The DCHR Digital Receiver is engineered to work alongside the DCHT transmitter to form the Digital Camera Hop system. The receiver is also compatible with the M2T unencrypted and encrypted digital stereo transmitters, and the D2 Series mono digital transmitters, including the DBu, DHu, DBSM, DSSM, and DPR-A. Designed to be camera mountable and battery powered, the receiver is ideal for location sound and televised sports, along with many other applications. The DCHR employs advanced antenna diversity switching during digital packet headers for seamless audio. The receiver tunes across a wide UHF frequency range.

The headphone monitor output is fed from a high-quality stereo amplifier with power available to drive even inefficient headphones or earphones to sufficient levels for noisy environments. An intuitive interface and high resolution LCD on the unit provide users with a quick read on the status of the system.

The DCHR also employs 2-way IR sync, so settings from the receiver can be sent to a transmitter. This way, frequency planning and coordination can be done quickly and confidently with on-site RF information.

WARNING: Moisture, including talent's sweat, will damage the receiver. Enclose the DCHR in our silicone cover (order part # DCHRCVR) or other protection to avoid damage.

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DCHR Summary

The DCHR operates in the UHF frequencies of 470.100 to 614.375 (A1B1) or 537.600 to 691.175 MHz (B1C1) for maximum flexibility. The Locale setting is used to restrict the tuning range for North American users to avoid the 608-614 MHz restricted range.

The receiver employs AES 256-bit, CTR mode encryption for robust security, and four key policy choices for different applications.

Housings and panels are made of machined aluminum with ***ebENi*** finishes (black electroless nickel plating) with laser etched marking for durability, yet they are lightweight and sleek in order to occupy minimal space on a camera. The DCHR features a user-friendly interface with a high-resolution, backlit LCD and membrane switches for ease of setup and system monitoring.

The DCHR runs for 8 hours on two lithium AA batteries.

Specifications

Operating Frequencies:	A1B1: 470.100 - 614.375 MHz B1C1: 537.600 - 691.175 MHz
Operating temperature range:	-20 to +40°C; -5 to +104°F
Modulation Type:	8PSK with Forward Error Correction
Audio Performance:	
Frequency Response:	D2 mode: 25 Hz - 20 kHz, +0\-3dB Stereo modes: 20 Hz - 12 kHz, +0\-3dB
THD+N:	0.05% (1kHz @ -10 dBFS)
Dynamic Range:	>95 dB weighted
Adjacent Channel Isolation	>85dB
Diversity Type:	Switched antenna, during packet headers
Audio Output:	
Analog:	2 balanced outputs, adjustable
AES3:	2 channels, 48 kHz sample rate
Headphone Monitor:	3.5 mm TRS jack
Level (line level analog):	-50 to +5dBu
Latency:	D2 mode: 1.4 ms Stereo modes: 1.8 ms
Power requirements:	2 x AA batteries (3.0V)
Battery life:	8 hours; (2) Lithium AA
Power consumption:	1 W
Operating Temperature Range:	-20 C (-4 F) to +50 C (122 F)
Dimensions:	Height: 3.34 in. / 85 mm. (measured to top of SMA connector) Width: 2.44 in. / 62 mm. (without wire belt clip) Depth: .75 in. / 19 mm. (without wire belt clip)
Weight:	9.14 ounces / 259 grams (with batteries)

Specifications subject to change without notice.

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