



## Briefcase Receiver

### Diversity COFDM HD/SD Receiver

The Briefcase Receiver (BCRX) is a COFDM (DVB-T compliant) diversity briefcase receiver/monitor. The BCRX is integrated into a portable, IP66, ruggedized briefcase

The unit combines exceptional RF performance and durability with fast set up and easy operation. The unit offers H.264 and MPEG 2 decoding.

The unit features 2x integrated screens:

- Hi-resolution 10.1 inch, 16:9 format, daylight viewable LCD screen displays COFDM video transmissions.
- 5-inch touch-screen to control and configure transmit/receive options.

The unit features AES 128/256 Bcrypt decryption, making it ideal for applications ranging from public security monitoring to covert surveillance.

The Briefcase Receiver features integrated non-removable internal storage with 500GB SSD capacity. Field replaceable battery packs allow for a minimum four-hour run time between charges. The unit also runs from vehicle power or 120/240VAC power.

You may close the case and leave, while at the same time receive and record for up to 24 hours. The BCRX features a magnetic switch that will turn off all unnecessary functions when the case is closed to enable a longer run time. You can also stream video through the Ethernet connector.

By default, the BCRXII scans presets until it locks on a signal. On lock, it displays video. The touch user interface features a scan button to toggle the receiver through presets, displaying the next locked channel. The BCRXII may also be configured to boot up on the last used preset before power off.



### Features

- Dual input maximal ratio combining diversity receiver
- MPEG4(H.264)/MPEG2 high profile auto detect decoding
- 32 user configurable presets
- Spectrum Viewer
- Removable of the shelf batteries
- IP Streaming of MPEG TS
- Video, Audio, Data & telemetry
- Bcrypt 1 & 2 AES 256 Decryption
- Narrow and wide Band Reception (6,7,8, & 2.5MHz)
- IP66 hard case
- HDMI output for large screen viewing
- Internal speakers

### Accessories

- 120/240VAC power supply
- 2x Batteries and charger
- 2 small rod style omni
- Assorted cables

### Optional Accessories

- 40hrs Edge recording
- 500GB Internal SSD
- High Gain Antennas



# datasheet

at the heart of the action

## RF Performance

### Model Part Number/ Frequency:

- 18BCRX:\*
  - 1.7 - 1.9 GHz
- 23BCRX:\*
  - 2.2 - 2.4 GHz
- 47BCRX:\*
  - 4.4 - 5.0 GHz
- 65BCRX:\*
  - 6.425 - 6.525 GHz
- 18/23BCRX:\*\*
  - 1.7 - 2.4 GHz
- 23/47BCRX:\*\*
  - 2.2 - 2.4 GHz
  - 4.4 - 5.0 GHz

\* <20 W DC power use.  
\*\* <21 W DC power use.

## System

- Decryption (optional):
  - AES 128/256 bit Bcrypt 1/2
  - (FIPS PUB 197)
- Ethernet:
  - Stream TSoIP UDP/RTP
  - RTSP
  - Unicast and multicast
  - WEB control

## Power Requirements

- Input range:
- DC: +9 to +28

## Standard Accessories

### Battery Pack

- Chemistry:
  - Lithium Ion
- Voltage:
  - 7.2 VDC
- Amp/Hours:
  - 6800 mAh
- Physical:
  - 5.7 x 7.3 x 3.8 cm
  - (2.25 x 2.875 x 1.5")
- Weight:
  - 374 g (12.3 Oz)
- Environment:
  - -23°C to +60°C Operational
  - (-10°F to 140°F)
- IP52

## Optional Accessories

### Edge Video Recorder\*

- File Format:
  - Records MPEG-TS
  - Video, Audio, telemetry data, and Time/Date stamped through Close Captioning
- Storage Format:
  - 500Gb SSD

### Tuning Step Size

- 250 kHz

### Frequency Stability:

- ± 2.5 ppm

## Demodulation Modes

### Modulation 1:

- Modulation Formats:
  - COFDM (DVB-T)
- DVB-T:
  - Support all GI, CR, and Modulation
- Carriers:
  - 2K
- Bandwidth:
  - 6 MHz, 7 MHz, and 8 MHz

- Control:
  - 5" Touch Screen LCD
- User Data:
  - Serial over Ethernet (UDP)
- Monitor:
  - High Brightness daylight readable
  - Night mode
  - 10.1" , 1280x768, 1000nits

## Environmental

### Temperature Range

- Full specification:
  - -20° to +60°C Ambient
  - -4° to 140°F
- Storage:
  - -40° to +80°C
- Humidity:
  - 0 to 95% non-condensing

## AC Power Supply

- The BCRX features an external AC power supply with standard 3 prong 110 VAC jack
  - Input Voltage:
    - 100 - 260 VAC
- Connector:
  - 3 prong standard
- Protection:
  - In line resettable circuit breaker
- Cord Length:
  - 4.57m (15 ft).

- Access:
  - Access stored files through USB/mounts as a flash drive
- Accessibility:
  - Factory

\*Enables the MNVR to record locally

## Modulation 2

- Modulation Formats:
  - COFDM
- Carriers:
  - 2K
- Constellation:
  - QPSK
- Code Rate:
  - 1/2, 3/4
- Guard Interval:
  - 1/32
- Bandwidth:
  - 2.5 (SR Scaled DVB-T)

## Diversity

- Channels
  - 2 channel Maximum Ratio Combining

## Connections

- 2 Type N-F (RF Input internal)
- 2 Type N-F (pass through)
- HDMI (Video output)
- RJ-45 (Ethernet)
- USB-B (programming)
- USB-A (Future use) (1: outside, 2: internal)
- 3.5mm (Headphone)
- 4 pin XLR-M (DC power)

## Physical

- Dimensions (closed and excluding antennas):
  - 38 x 31 x 17 cm
  - (15.14" x 12.31" x 6.81")
- Weight:
  - <1.3 kg (<3 lbs)
- Ingress (by design)
  - IP66 (case closed)

## Battery Charger

- Recharge time.:
  - < 3 HRS:
- Environmental:
  - IP52
- Protection:
  - Reverse and over voltage
- Power:
  - AC power supply with 8' cable
  - DC vehicle supply with 8' cable

## Long Range Bi-directional Control RF Module

- RF output:
  - SMA
- RF Frequency:
  - UHF

## MPEG2/4 Decoder

- Auto detects MPEG2/MPEG4

### Video:

- Video decoding support:
  - MPEG-4 Part 10/H.264/AVC/MPEG 2
- Profile:
  - High, Main, Baseline

### Formats:

- HD Formats (4:2:0):
  - 720p/23.98/24/50/59.94
  - 1080i/25/29.97
  - 1080p/29.97/24/25/23.98
- SD Formats
  - NTSC 720 x 480
  - PAL 720 x 576

### Audio:

- Audio Coding:
  - ISO/IEC 11172-3(Layer I/II)

## Standard Accessory Cables

- 2x Small rod style 2dBi Omni antenna
- 2x Type N extension cables
- 2x batteries and charger
- AC Power supply

## Analog Video Output Adaptor\*

- Features:
    - Down convert HD to SD
  - DC Power:
    - Powered from HDMI
  - Output resolution:
    - 480i/(NTSC)576i(PAL)
  - Accessory included:
    - 6ft locking HDMI cable
- Allows MNVR to drive legacy style SD monitor.