



The BMR120 is a frequency agile receiver providing the performance and dependability demanded by the television broadcast industry. It is ideal for either fixed or portable operations.

Applications:

- ▶ TV Broadcast
- ▶ Law Enforcement
- ▶ Military & Civilian Uses

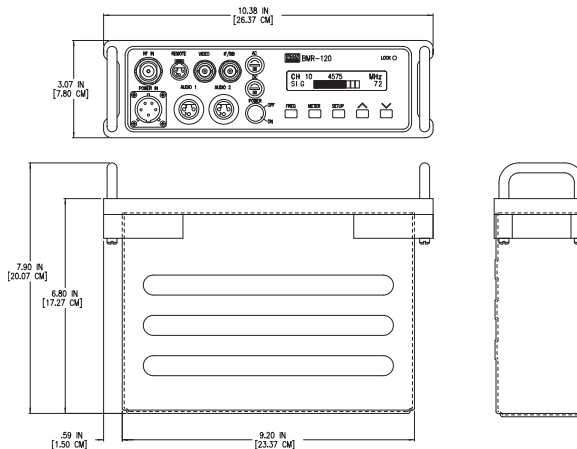
Key Features

- ▶ Portable Design
- ▶ Field Programmable Audio Demodulators
- ▶ Microprocessor Controlled
- ▶ Built-in AC/DC Power Supply
- ▶ Adjustable Video & Audio Levels
- ▶ Narrow or Wideband IF Filter Selection
- ▶ Remote Control Capability
- ▶ Backlit LCD Display
- ▶ LCD Signal Strength Meter
- ▶ Video or Telemetry Configuration Available
- ▶ Serial Remote Control

The front panel keypad allows adjustment of the operation frequency, subcarrier frequencies, video/audio output levels, selection of clamped or non-clamped video output, IF bandwidth, IF/BB Operation, subcarrier status, and keyboard lockout or self-test. Relative received strength, channel/frequency selection, and supply voltage indications are provided on the backlit LCD display.

These exclusive features along with a universal AC/DC power supply and RS-232 remote control (optional RS-422 to FSK), allow for simple, all-purpose operation.

Ordering Info	Frequency Range	Frequency Resolution	Noise Figure
BMR120-7P	1.9-2.5 GHz or 2.3-2.7 GHz	0.25 MHz	< 5 dB
BMR120-4A	4.4-5.0 GHz	1.00 MHz	< 5 dB
BMR120-6A	5.25-5.85 GHz	1.00 MHz	< 5 dB
BMR120-9P	6.4-6.525 GHz or 6.8-7.2 GHz	0.25 MHz	< 5 dB



All Data Subject to Change Without Notice

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RF Characteristics	
Frequency Range	See Ordering Information
Frequency Resolution	See Ordering Information
Frequency Selection	Front Panel or Remote Serial
Frequency Stability	± 0.002%
Receiver Noise Figure	See Ordering Information
RF Input Impedance	50Ω, Type "N" Female
First IF Frequency	Varies: 570-710 MHz
Second IF Frequency	70 MHz
Final IF Bandwidth	12 MHz SAW or 20 MHz, Front Panel Selectable (others available)
Image Rejection	≥ 60 dB
Signal Strength Output	See Ordering Information
Sensitivity	37 dB Weighted Video SNR for -80 dBm RF Input
Max. Input Before Damage	0dBm
Spurious Rejection	55 dB
Number of Channels	Variable to .25 MHz Steps

Power Requirements	
DC Input Voltage	+11 to +32 VDC (Chassis Ground)
DC Power Consumption	17W
AC Input	85-250 VAC; 50/60 Hz
AC Power Consumption	17W

Physical Characteristics	
Dimensions (excluding connectors)	10.4" x 7.9" x 3.1" (26.4 x 20 x 7.9 cm)
Weight	< 6 lbs (2.7 kg)
Volume	254.70 cubic inches (4171.20 cu. cm)

Video Characteristics	
Modulation Type	FM
Baseband Response	NTSC (PAL Optional)
Modulation Response	10 Hz to 10 MHz with no Subcarriers 10 Hz to 4.5 MHz with Subcarriers
De-emphasis	CCIR 405, 525 Lines (Pal Optional)
Demodulation Sensitivity	1 Vpp for ± 4 MHz Cross-over Frequency
Video Output Level	1 Vpp ± 5 Vpp, Front Panel Adjustable
Video Output Impedance	75Ω Unbalanced
Video Performance	EIA/TIA-250-C

Audio Output Characteristics	
Subcarrier Frequencies	4.83 to 8.59 MHz Front Panel Selectable
Audio Response	50 Hz - 15 kHz
Modulation Types	FM
De-emphasis	75 μsec (50 μsec Optional)
Deviation	75 kHz; (To 125 kHzp Optional)
Audio Output Level	9 dBm into 600Ω
Level Adjustment	± 6 dB in 1 dB steps, Front Panel Adjustable
Output Impedance	< 30Ω, Balanced

Environmental Characteristics	
Temperature Range	-20° to +70° C (-30° to +70° C w/ Optional display Heater)
Humidity	Up to 100% Non-condensing

Available Accessories	
<ul style="list-style-type: none"> • BRC12 Remote Control Panel (RS-232, RS-422, FSK) • AC Power Cord • DC Power Cord 	