

JVC

The Perfect Experience / —

LIBRE

ProHD Microwave Camera System



Now you can do live remote broadcasts without your camera tethered to a news van. Tell your story live from the floor of the auto show, the mayor's office, the Union rally, or the election center. Libre is a revolutionary new package that combines a ProHD 200 series high definition camera with a compact, on-board microwave transmitter from BMS. Libre means freedom -- freedom from cables, freedom from exorbitant pricing. Freedom to do news like its never been done before.

ProHD

- Use with ProHD 200 Series JVC camera (GY-HD200 or GY-HD250)
- Camera's built-in SuperEncoder provides stunning, artifact free HD images at 20Mbps.
- Native 720/60p capture, recording and live transmission
- Compact size with ideal weight distribution
- Includes BMS transmitter and receiver:
 - COFDM 2GHz transmission with 64 QAM modulation
 - Reduced occupied bandwidth (8MHz)
 - Resistant to multipath
 - Robust signal, even in difficult RF environments
 - Transmitter and diversity receiver included
- Record HD to tape while transmitting
- FCC license required



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A JVC Libre system typically consists of a ProHD camera (GY-HD200 or GY-HD250), lens, camera battery, BMS CT2200 microwave transmitter (EU112403300), BMS DR2100 microwave receiver (EU121396020), transmit and receive antennas, power supply and cables.

Compact, lightweight CT2200 transmitter

The CT2200 is the smallest, lightest and most affordable HD transmitter currently available on the market and is designed to work with JVC ProHD 200 series cameras. This groundbreaking product is ideal for newsgathering applications. It's small and easy to transport and has exceptional transmission range to permit shooting from locations that other systems would miss. Libre setup is quick and easy.

Technical limitations have so far restricted the output powers of most compact camera transmitters to low level. Thanks to new Libre technology, we can now offer the CT2200 with an output power of 400mW without the additional bulk and power consumption increase that this would normally create. The CT2200 provides long range transmission and battery life.

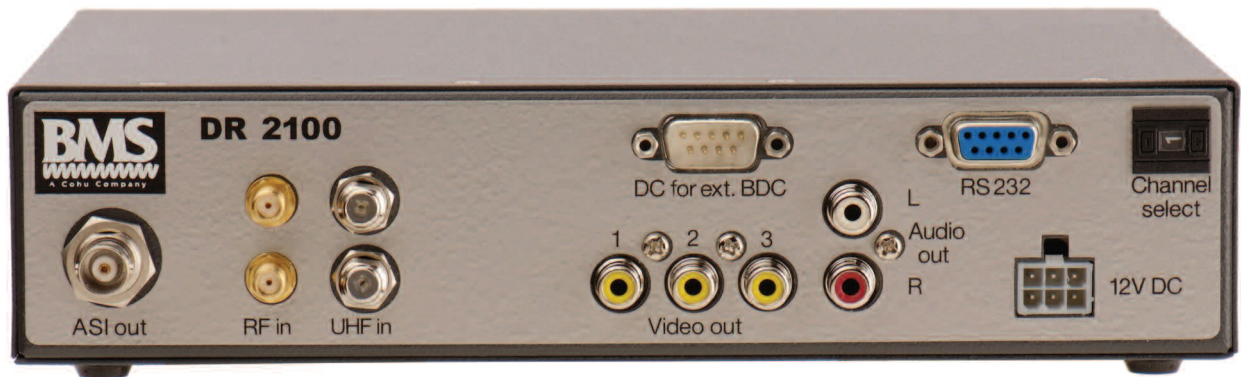
The CT2200 has a rugged design and runs cool for use in harsh environments. Power efficiency ensures long run times even with small batteries.

Features of the CT2200:

- Low Power Consumption
- COFDM 2k Transmission
- 8 MHz Bandwidth
- Autodetect 1080i//720p
- Camera Dockable with Brackets
- Anton Bauer//IDX-Battery Mount
- Rugged and Lightweight Design
- 400 mW Output Power
- Power Input Range from 11 to 17.5 VDC
- Inbuild Display and Keyboard
- Frequency Range
 - 2.0 to 2.3 GHz
 - 2.3 to 2.7 GHz
 - 3.2 to 3.6 GHz



ProHD



2-way Diversity Receiver DR2100

The DR2100 is designed as an ultra portable, low-cost, high performance diversity receiver. Its compact size and DC power capability facilitates easy field operation making the unit especially suitable for newsgathering. The DR2100 includes two RF diversity inputs with the downconverter integrated into the unit. Two UHF inputs are also provided to permit the use of external downconverters if required. This greatly increases the versatility of the unit and makes the DR2100 suitable for a very wide range of applications.

Features of the DR2100:

- Compact Size
- High Performance FFT--MRC Diversity
- COFDM 2k Standard
- Wide Frequency Range (2.0 to 2.7 GHz or 70 to 860 MHz)
- Integrated Down Converter
- Usable with external Down Converter
- ASI output

The exceptional receiver performance of the DR2100 also makes it suitable for repeater applications. Its physical size, high performance, and low cost make it ideal for repeating wireless camera transmissions over a very long distance.



CT2200 TRANSMITTER SPECIFICATIONS

Frequency	2.0 - 2.3 GHz 2.3 - 2.7 GHz 3.2 - 3.6 GHz
Channel Bandwidth	8 MHz
RF Output Power	400mW
Modulation	COFDM 2k
MPEG-2 Encoding	MPEG-2 4:2:0 MP@H-14 720p MPEG-2 4:2:0 MP@H-14 1080i 25/30 fps 50/60 Hz
Control	Built-in Display and Keypad Configuration and Control
Power Input	11 - 17.5 VDC
Consumption	13W
Temperature	-20° to +45°C (+14° to +113°F)
Relative Humidity	5 to 95%
Dimensions	CT2200HDV without Brackets: 5.43" x 3.43" x 1.06" (138 x 87 x 27) mm
Weight	CT2200HDV without Brackets: 0.73 lbs. (0.33 kg)

INPUTS / OUTPUTS

Data IN	Multiin 4 Lemo (Camera/Transmitter connection)
RF Out	SMA(f), 50 Ω
IEEE1394 Out	Connection to ProHD camera

DR2100 DIVERSITY RECEIVER SPECIFICATIONS

Frequency	2.0 to 2.7 GHz 70 to 860 MHz
Channel Bandwidth	6/7/8 MHz
Diversity Method	Fast Fourier Transforms - Maximum Ratio Combining (FFT-MRC)
Demodulation	Autodetect FEC and Guard interval
Decoding	MPEG-2 4:2:0 MP@ML
Control	10 Channel Preset (internal) DENGVision via PC (external)
Power Input	11 to 15 VDC
Consumption	18 W
Temperature	0 to + 45°C (+32 to +113°F)
Relative Humidity	5 to 95 %
Dimensions	(W x D x H) 9.25" x 8.1" x 2.17" (235 x 205 x 55)mm
Weight	4.41 lbs (2 kg)

DR2100 RECEIVER INPUTS/OUTPUTS

F (f)	UHF in	(2) UHF input DC feed to BDC 75 Ω
BNC (f)	ASI out	2) Transport stream output 75 Ω
RCA (f)	CVBS out	(3) Analog Video output
RCA (f)	Audio out	(2) Analog Audio out
DE9 (m)	DC for ext. BDC	16 to 24VDC in for external BDC



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