

DSR315

Digital Satellite Receiver



The Motorola DSR315 compact-size satellite receiver is designed for Star Choice subscribers. It is well suited for additional outlets with full-featured home theater connections except for HD. This receiver supports standard definition TV with multiple outputs: RF coaxial cable, RCA composite video, and S-Video. For audio, it supports Dolby Digital 5.1 with optical and coaxial SPDIF, and RCA baseband stereo connections.

Its smaller size allows the DSR315 to fit easily into bookshelves, on top of televisions, and other locations that are not adequate for placement of the full size Satellite Receiver.

The Motorola DSR315 is a full-featured digital satellite receiver with home theater connections and a small set-top design.

BENEFITS INCLUDE:

- **Simple Navigation**

The DSR315 makes it easier to search channels, times, and programs.

- **Picture-over-Guide**

By displaying channel and program listings on the bottom of the screen, viewers can browse the guide while continuing to view programming.

- **Interests**

The DSR315 offers viewers the ability to surf through channels or program listings by type.

- **Enhanced Parental Controls**

Locks rated programming with a password, preventing the screening of inappropriate content to minors.

- **Home Theater Connections**

S-Video, Coaxial and Optical Digital Audio connections.



SPECIFICATIONS

General

Temperature	0° to +40°C (ambient)
Humidity	95% relative
Dimensions	12.04" (W) x 2.32" (H) x 8.22" (D)
Weight	4.5 lbs.
Power Input	115 VAC, 60 Hz, 30 W (nominal)
Regulatory Compliance	FCC Part 15 & 68, ANSI C63.4-1992, UL 1492 & 1459, CSA, EIA 563
Limited Warranty	1 year

Input Specifications

Frequency	950 to 2150 MHz
Impedance	75 Ω
Signal Level	-65 dBm to -25 dBm per carrier, up to 16 carriers per polarization
Return Loss	8 dB minimum

Digicipher® II Audio

Stereo Outputs	1
Impedance	110 Ω maximum
Output Level	5.66 V p-p \pm 10% into 2k Ω load with 0 dBFS digital input
Frequency Response	1.0 dB p-p, 20 Hz to 20 kHz THD 0.3% maximum from 20 Hz to 20 kHz referenced to +10 dBm encoder
SNR	85 dB minimum
Stereo Channel Isolation	60 dB minimum

Optical Digital Audio

Optical power output	0.032 mw max
Wave length	660 nm \pm 30 nm
Cable length	3 meters max

Digicipher II Composite Video

Output Level	1.0 V p-p \pm 10%, sync tip to reference white
Frequency Response (NTSC)	\pm 1.0 dB, 1 kHz to 4.2 MHz
C-L Delay Inequality	\pm 50 nsec
Differential Gain	5.0% p-p maximum (10-90% APL)
Differential Phase	5.0° p-p maximum (10-90% APL)
Luminance SNR	57 dB

Component Video - S Video

Output level Luminance (Y)	1.0 V p-p \pm 15% into 75 Ω
Chrominance (C)	286 mV p-p \pm 15% into 75 Ω
Connector	4-contact Mini-DIN, Black
Frequency Response Y	\pm 1.0 dB, 1kHz to 4.2 MHz
Frequency Response C	+1.25 to -4.25 dB (relative to 0dB at 3.58 MHz)
SNR Y	57 dB minimum (unified weighting 100 kHz HPF, MHz LPF)

Modem Interface

Standard	Bell 212A
Data Rate	1200 baud
Connector	RJ-11 telco plug

Remodulator Composite Video

Channels	3 and 4 (NTSC)
Formats	NTSC



Specifications are subject to change without notice.

MGBI

Motorola, Inc.
Broadband Communications Sector
101 Tournament Drive
Horsham, PA 19044
1.800.523.6678
www.motorola.com/broadband



MOTOROLA and the Stylized M Logo are registered in the U.S. Patent and Trademark Office.
All other product or service names are the property of their respective owners. ©Motorola, Inc. 2004.

518419-001

5615-0804-xK