

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 ^o to +40 ^o 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 ^o 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

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