DSR580 Digital Satellite Receiver

with Integrated HDTV Decoder and DVR

The world of TV is going HDTV - high-definition, that is- and the VOOM[™] HDTV digital satellite service was built from the ground up to lead the charge. VOOM utilizes Motorola's DSR580, a full-featured, over-the-air, digital satellite receiver that combines an advanced high-definition television (HDTV) decoder with a 160 GB digital video recorder (DVR).

It delivers dazzling high-definition programming, an easy-to-use menu system, and advanced interactive capabilities including the ability to pause live TV and store both standard and high-definition programs. In addition to the standard audio and video ports, it is designed to handle MPEG-2 and headend signaling. It is also upgradeable to handle MPEG-4, which can virtually double the amount of VOOM digital programming that is delivered, while maintaining or improving the picture quality.

There is a built-in ATSC digital tuner that lets the user access available off-air digital and HDTV broadcast stations in their area with the help of a separate off-air antenna. The DVI connection delivers the highest bandwidth digital picture possible directly into high-definition televisions for picture quality at its finest. And VOOM has an easy-to-use on-screen program guide and user interface designed and built in HD to make navigation simple and program selection easy and enjoyable.

Today, VOOM delivers more than 35 channels in HD - more than any other provider - including premiums from HBO®, SHOWTIME™, STARZ!® and Cinemax®. There are over 20 HD channels you won't see anywhere else, including HD movies, music, sports and more - in super-clear Dolby Digital® 5.1 sound. Add to that a wide selection of cable TV's most popular networks and VOOM's entertainment value is unsurpassed. The DSR580 combines a 160 GB DVR with an advanced HDTV satellite receiver to deliver dazzling programming and convenient interactive features.

10TOROLA

intelligence everywhere®

BENEFITS INCLUDE:

• Digital Video Recording

The DSR580 alows viewers to record standard or high-definition programs and to pause, rewind, and fast forward live TV.

• Simple Navigation

The DSR580 makes it easier to search channel listings, time schedules, and specific programs (including programming in HD) through the easy-to-use VOOM built-in program guide.

• Picture-over-Guide

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

• Security

Advanced signal security and content copy protection technologies have been incorporated.

• Enhanced Parental Controls

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

• Upgradeable

MPEG-4 field upgradeable through custom installable modules (future avail.) Future improvements can be downloaded via satellite.



SPECIFICATIONS

L-Banc	i Input
--------	---------

Frequency Impedance Input level Return loss Demodulator

ATSC 8 VSB Input

Frequency Impedance Input level Return loss Demodulator

S-Video Output

Standard Impedence Return Loss (Y and C) Luminance (Y) Chrominance (C) Connector

Component Video Output

Standard

Impedance Y Signal Level PbPr Signal Level Connector

DVI Output

Standard Termination Resistance V_H V_L

950 to 2150 MHz 75 Ω -65 dBm to -25 dBm 8 dB minimum 8PSK

54 to 806 MHz 75 Ω -80 dBm to -10 dBm 3 dB minimum 8 VSB

NTSC \pm 5% 75 Ω 20 dB minimum DC to 6 MHz \pm 15% 1.0 Vpp into 75 Ω \pm 15% 286 MV pp into 75 Ω 4-contact, Mini-Din, Black

EIA-770.2 (480p), EIA-770.3 (720p, 1080i) 75 Ω unbalanced ± 10% 1 V p-p (including sync) ± 10% 700 mV p-p 3 RCA Phono, female, red, blue, green

DVI Spec rev 1.0 ± 10% 50 Ω ± 5% 3.3 V (typical) ± 5% 2.8 V (typical)

720p

480p

480i

Stereo Audio

Mode
Digital baseband stereo

Fixed volume output to TV only

Freq response
± 1.0 dB, maximum, 20 Hz to 20 kHz

Composite Video

Output level
± 10% 1.0 V p-p into 75 Ω

Owner in the second of the se

ConnectorYellow phono, marked Video OutFreq response± 1.0 dB, 1 kHz to 4.2 MHzDifferential gain5.0% pp maximumDifferential phase5.0 deg. pp maximumS/N57 dB minimum(unified weighting 100 kHz HPF, 5 MHz LPF)

Optical Digital Audio

Power output Wave length Cable length

Physical/Environmental

Temperature Humidity Dimensions Weight Power input UL 0° C to 40° C ambient 95% relative 17" W x 2.5" H x 13" D 18 lbs ± 10% 115 V AC; 60 Hz nominal; 60 W maximum Listed

0.032mw maximum

± 30mm 660mm typ

3 meter max (not provided)



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, the Stylized M Logo, and Intelligence Everywhere are registered in the U.S. Patent and Trademark Office. HBO and Cinemax are registered trademarks of Home Box Office, Inc. Showtime is a trademark of Showtime Networks, Inc. Starz! Is a registered trademark of Starz Encore Group LLC. Dolby Digital is a registered trademark of Dolby Laboratories Licensing Corporation. The VOOM and HDTV Delivered names and logos are service marks of Rainbow DBS Company LLC. ©2004 Rainbow DBS Company LLC. All rights reserved.

All other product or service names are the property of their respective owners. @Motorola, Inc. 2004. 519347-001

xxxx-0904-xK

Supported high-definition resolution formats:

1080i