

# DIRECTV® High Definition Receiver/Advanced HDTV Tuner **HD-SAT520**

## ATSC/Satellite/NTSC Tuner



- ▶ **Allows Over the Air HDTV Reception**
- ▶ **Fully Integrated Multi-Channel HDTV Receiver**  
Receives terrestrial/cable and satellite reception with unified "Advanced Program Guide" from DIRECTV® for seamless channel integration and keyword search
- ▶ **All Format ATSC Receiver**  
Utilizes Zenith's 4th-generation VSB technology for improved terrestrial DTV reception and noise immunity
- ▶ **Various Display Options**  
Selectable output format allows configuration on different displays in both 4:3 and 16:9 formats
- ▶ **Native Pass-thru Modes**  
Allows faithful display of original format broadcasts
- ▶ **Enhanced Scaler/Up-Converter/  
4 Line Y/C Digital Comb Filter**  
Provides superior picture for NTSC/Analog Inputs
- ▶ **5.1 Channel Dolby Digital™ Sound**  
Provides digital audio of 5.1 channels to create a theater-like sound
- ▶ **DVI-Digital Interface**  
Allows for digital video transfer when connected to other digital components, with DVI and HDCP inputs
- ▶ **Front Fluorescent Display**  
for channel/status indication
- ▶ **Fast Program Search**  
for tuning



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**Aspect Ratios** Able to display video in both standard 4:3 and 16:9 wide screen formats.

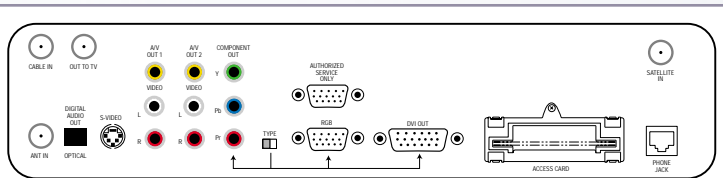
**Hi-Res Component Video** Delivers highest quality picture by keeping the video signal into three separate components—color difference Red, Blue and Luminance—before the signals are sent to the display television.

**Advanced Program Guide** Contains schedule and program information for channels. Different program/content search modes are allowed including category and key work search.

**DVI with HDCP** Digital Visual Interface and High bandwidth Content Protection Provides the highest digital video resolution and faithful transfer of HDTV video. Connect the DVI/HDCP output to the corresponding DVI-HDCP inputs of your HDTV display unit, using the “optional” DVI cable with male connectors.

**Native Format Output** Out-put of the set-top box can be configured for Native output mode, then the component outputs will provide the original input format as it was broadcasted, instead of converting the output to always a fixed format

**VSF Vestigial Side Band** is the robust digital television modulation/transmission system developed by Zenith and adopted by the FCC as the US terrestrial HDTV standard.



### Jack Pack

Dolby Digital™ (Optical)	1 Out
RGB Out	1 (15-Pin Connector)
Hi-Res Component Video Out Y, PB, PR	1 Set Switchable 1080i, 720p, 480p
S-Video Out	1 S-Video Out
Calibration Port	1 Serial Port
A/V Out	2 Sets
DIRECTV® RF-Input (Satellite in)	1 DBS RF Antenna In
DIRECTV® Smart Card (Access card)	1 Slot on the Back
Antenna-RF	2 RF-Inputs (Terrestrial/Cable)
RF-Out	RF-Loop Out/Channel 3/4 RF Remod
RJ11 (Phone Jack)	1
DVI-HDTV Out (HDCP)	1

### Additional Information

<b>Cabinet Dimensions:</b>	
Width x Height x Depth	16.9" x 2.7" x 12.8"
Weight	9.0 lbs.
<b>Dimensions w/Packaging</b>	
Width x Height x Depth	20.9" x 6.5" x 16.7"
Weight	15.7 lbs.
UPC Code	04464200852 9
Power Consumption	100 Watt Max.

### Optional Accessories

DVI Cable	1
Indoor Antenna	ZHDTV1Z
Dish	ZHDAP3

- 1: RGB & Y, PB, PR not available simultaneously
  - 2: Signal on A/V out & component/RGB not available simultaneously
  - 3: DVI cable is needed to connect DVI input of monitor device that conforms to DVI with HDCP
  - 4: A roof top or an indoor UHF/VHF antenna is needed to receive over the air signals
- Dimensions and weights are approximate. Design and specifications subject to change without notice.

### Video Features

Aspect Ratio	4:3 & 16:9
Component Output/RGB Out	1080i, 720p, 480p
Composite Output	480i (Only When 480i Mode Selected)
S-Video	480i (Only When 480i Mode Selected)
Comb Filter	4L Y/C Digital Comb

### Tuning System

ATSC/HDTV	1 ATSC Tuner Receives 18 Formats and Can Up-Convert/Down-Convert to 1080i, 720P, 480i/p
Analog	1 NTSC Tuner, Output Available in 1080i, 720P, 480i/p Formats,
HD/SD Satellite	1 Receives HD/SD Satellite (QPSK/DIRECTV®)

### Audio Features

Dolby Digital™	Yes
Mono/Stereo/MTS/SAP	SAP/MTS

### Special Features

Programming Guide	Advanced Program Guide, integrated for all channels of reception
Sources	Satellite, ATSC, NTSC, Terrestrial/Cable (VSB)
TAG Menus	Bit Mapped w/EZ Hook-Up Menu
Auto Programming	Yes
Antenna Tuning Indicator	Visual
Dish Tuning Indicator	Visual and Audio
Channel Labels	Yes
Parental Control with V-Chip	Yes
Surf's Up Favorite Channel Selection	Yes
Auto Demo	Yes
Flashback	Yes
Closed Caption (Digital & Analog)	Yes
Multi-Zoom Mode	Yes
NTSC Outputs for Analog Hook Up	Yes

### Cabinet Description

Finish	Brushed Metallic
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### Remote Control

Transmitter	Universal Remote with Navigation Keys
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### Required Approvals

UL, FCC Class B	Yes
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### Service/Limited Warranty

Parts/Labor	IRD: 1 Year/90 Days
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### Supplied Accessories

Video Cable	1
Audio (4R) Cable	1
S-Video Cable	1
Y,P <sub>B</sub> ,P <sub>B</sub> Cable (Component)	1
Remote Control with Batteries	1
Telephone Line Cord	1
RF Cable	1
User Manual	1
DIRECTV® Access Card	1



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