



II. SPECIFICATIONS

This section includes product specifications useful in the planning and support.

Size and Weight

- Height: 1.12 inches (28.5 mm)
- Width: 8.66 inches (220 mm)
- Depth: 5.75 inches (146 mm)
- Weight: 1.19 pounds



FRONT PANEL

H25 REAR SEPT272010



REAR PANEL

Packaging

Multi-pack (4 units)

- Product Depth: 9.84 in
- Product Width: 7.67 in
- Product Height: 14.29 in
- Product Gross weight: 8.17 lbs
- Includes external PSI, Manual, HDMI cable

Single-pack (1 unit)

- Product Depth: 7.32 in
- Product Width: 9.96 in
- Product Height: 4.92 in
- Product Gross weight: 3.21 lbs

- Includes external PSI, Manual, HDMI cable, composite cable, custom component cable, phone cord, remote

Processor

- Broadcom BCM7340
- Multi-threaded 405 MHz MIPS CPU
- 1100+ DMIPS 128 KB L2 Cache

Ports and interfaces

- HDMI
- Digital Audio (Coax)
- Composite Out (RCA Type)
- Component/Composite Out (Mini-DIN-10)
- External Remote (RF)
- USB
- SAT-IN Tuner (SWM only)

Power

- External 18-Watt Power Supply
- Input: 120V-0.5A, 60Hz
- Output: 12V 1.5A
- Dimensions: 4.25 x 2.05 x 1.34 inches

Environmental requirements

- Operating temperature: 32° to 122° F (0° to 50° C
- Storage temperature (No Damage): -40° to 150° F (-40° to 66° C)
- Relative humidity: 5-85% non-condensing

Video & Audio Formats

- MPEG-4, MPEG-2 video, up to 20Mbps
- 16:9 and 4:3 formats
- 1080p, 1080i, 720p, 480p, 480 resolutions
- Dolby Digital Plus, Dolby Digital, MPEG-4 Advanced Audio Coding High Efficiency profile at Level 2, MPEG-1 Layer II audio
- 1 set of audio outputs on RCA-Type jacks (Red color for right audio output and white color for left audio output)

TV compatibility

- Compatible with high-definition TVs with HDMI and capable of 1080p and 3D, including models from these manufacturers: Hitachi, LG, Mitsubishi, Panasonic, Philips, Pioneer, Samsung, Sony, Sharp, Toshiba, Vizio, Westinghouse

Accessories

- Digital Audio cable (Coax)
- RF Dongle (optional)
- Wall/TV Mounting bracket (optional)
- Composite Out Mini-DIN-10 (optional)



a. HARDWARE

i. FRONT PANEL

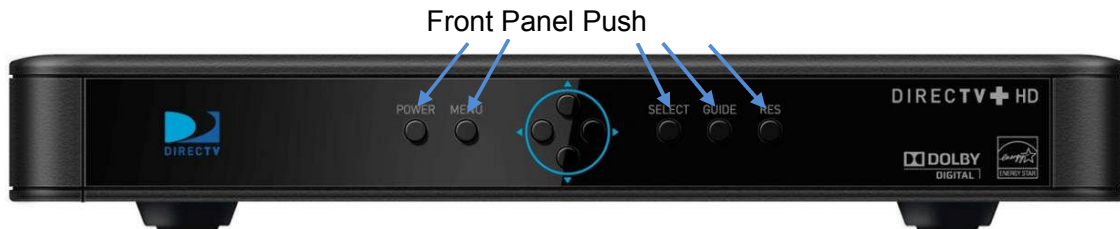


FIGURE 2 FRONT PANEL

The H25 has a push button front panel, whereas the H24 has a touch sensor front panel. The H25 does not have resolution LEDs like earlier STB's.



FIGURE 3 SIDE VIEW

The access card and red button reset on the H25 is located on the right side of the STB. The H25 does not have a door to conceal the access card or the red button reset. On the H24, these two items are located in the front of the STB. The H24 also has a door to cover these.



ii. BACK PANEL



FIGURE 4 REAR PANEL

Ethernet Jack:

The H25 does not have an Ethernet Jack.

Satellite input:

The H25 has one “SWM only” F connector satellite input, and does not need a BBC. The H24 has one satellite input, but supports both “SWM” and “Multi-switch”, where a BBC is needed for Multi-switch connection, and not needed for SWM.

RF remote antenna:

The H25 has an external RF remote dongle that connects to the rear panel of the IRD. The H24 has an internal remote antenna.

LNB and Power Control:

The H25 supports both transmit and receive of the DiSEqC 2.0 protocol. It is NOT required to support a BBC.

The H25 has its LNB Power and Control components depopulated.

iii. MEMORY RAM

- Minimum of 256 Mbytes of DDR2 or DDR3 SDRAM accessible to the main processor
- Memory resources sufficient to support the middleware

Flash Memory

The H25 has at least 1 GB of NOR flash memory with six (6) sectors of 128KBytes of the NOR memory for OTP-locked functionality (One Time Programmable) to contain portions of the DIRECTV Boot-loader.

Non-Volatile Memory

The H25 has at least 32Kbyte of Non-Volatile Memory with at least 10 KB reserved for persistent data.



iv. CABLING

The H25 has a 10 pin mini-din component/composite output, which requires custom component breakout cables.

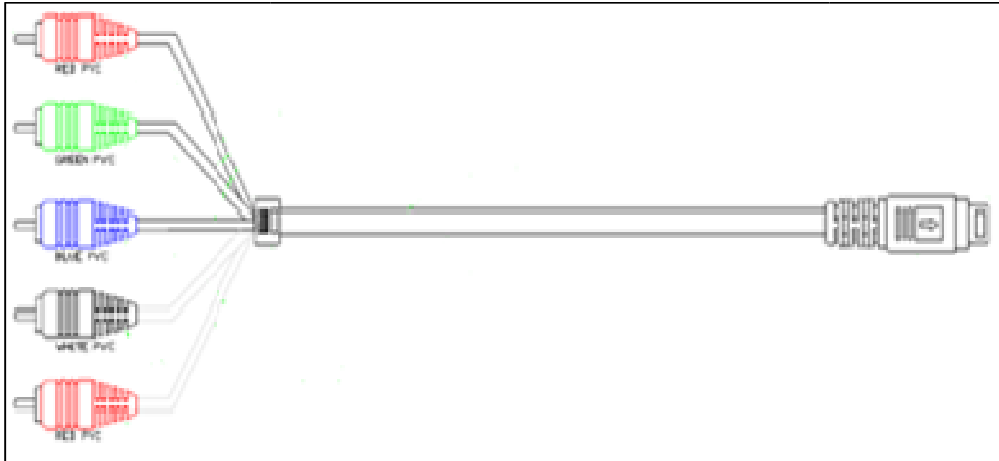


FIGURE 5 COMPONENT VIDEO CABLES

v. POWER SUPPLY

The H25 uses a DIRECTV EPS10 series external power supply.



FIGURE 6-POWER SUPPLY



FIGURE 7-POWER SUPPLY



vi. RF DONGLE

The H25 has an external RF remote dongle that connects to the rear panel of the IRD.

- Currently targeted for TBD

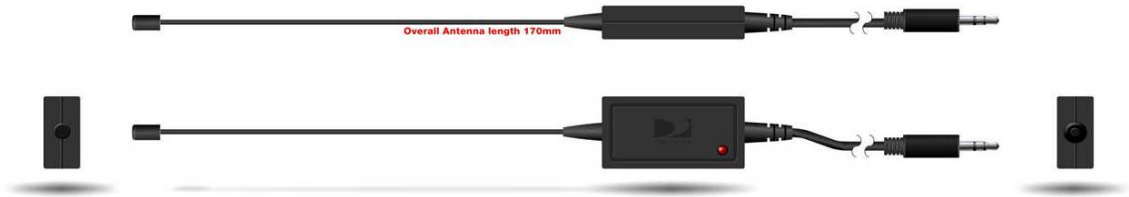


FIGURE 8 RF DONGLE



vii. WALL MOUNTING BRACKET

The H25 is wall mountable using the H25 wall mount bracket. The wall mount provides a simple, convenient way to attach the H25 to a wall near the TV. The wall mount is made from a sturdy plastic frame that holds the H25 firmly in place and allows cabling to be routed cleanly from the H25 to the TV.

This mounting bracket will improve many typical connectivity and location issues such as:

- Customer will no longer stack components on IRD causing overheating problems
- Prevent damage to IRD due to liquid or foreign object intrusion
- Cabling will less likely come loose due to frequent moving of the IRD
- Customers can now access both front and rear panels of IRD for easier visual troubleshooting with agents
- Customers with wall mounted TV's can now have the IRD located on the wall behind the TV keeping all cabling hidden from view

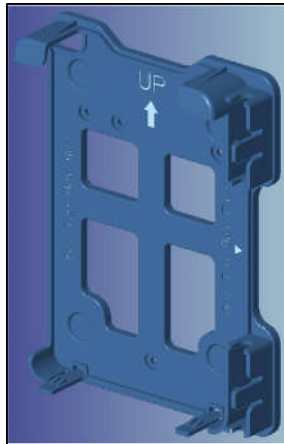


FIGURE 9 WALL MOUNT BRACKET

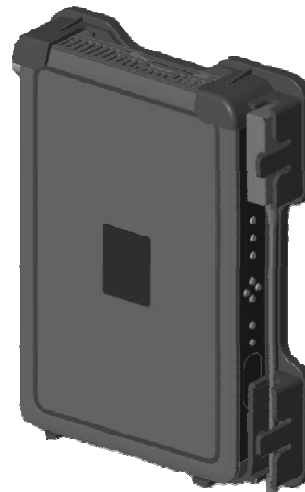


FIGURE 10 WALL MOUNT BRACKET
W/RF ANTENNA

The wall mount bracket also includes space for the RF dongle. This keeps the RF antenna secure and out of the way.