

Types of Dune HD Remotes

There are the following types of Dune HD Remotes:

- New Small Remote -- shipped with Dune HD TV-101/301.
- New Remote v2 -- shipped with Dune HD Smart D1/H1/B1, Dune HD Max, Dune HD Duo, Dune HD Lite 53D.
- New Remote v1 -- shipped with Dune HD Base 2.0, Dune HD Prime/Base 3.0, Dune HD Smart D1/H1/B1, Dune HD Max, Dune HD Duo, Dune HD Lite 53D.
- Old Remote Black -- shipped with Dune BD Prime, Dune HD Center, Dune HD Base, Dune HD Mini.
- Old Remote Silver -- shipped with Dune HD Ultra and Dune HD Mini.

IR HEX Codes

All Dune HD Remotes use NEC protocol. Old and New Remotes have different customer codes:

- New Remote: 00 BF
- Old Remote: 01 BE

IR HEX codes for New Remotes (NEC protocol, customer code 00 BF):

EJECT	00 BF 10 EF	* big only
MUTE	00 BF 46 B9	
MODE	00 BF 45 BA	* big only
POWER	00 BF 43 BC	
A	00 BF 40 BF	
B	00 BF 1F E0	
C	00 BF 00 FF	
D	00 BF 41 BE	
1	00 BF 0B F4	
2	00 BF 0C F3	
3	00 BF 0D F2	
4	00 BF 0E F1	
5	00 BF 0F F0	
6	00 BF 01 FE	
7	00 BF 11 EE	
8	00 BF 12 ED	
9	00 BF 13 EC	
0	00 BF 0A F5	
CLEAR	00 BF 05 FA	

SELECT	00 BF 42 BD	
V+	00 BF 52 AD	* big only
V-	00 BF 53 AC	* big only
P+	00 BF 4B B4	* big only
P-	00 BF 4C B3	* big only
SEARCH	00 BF 06 F9	* big only
ZOOM	00 BF 02 FD	* big only
SETUP	00 BF 4E B1	* big only
UP	00 BF 15 EA	
DOWN	00 BF 16 E9	
LEFT	00 BF 17 E8	
RIGHT	00 BF 18 E7	
ENTER	00 BF 14 EB	
RETURN	00 BF 04 FB	
INFO	00 BF 50 AF	
POP UP MENU	00 BF 07 F8	
TOP MENU	00 BF 51 AE	
PLAY	00 BF 48 B7	* big only
PAUSE	00 BF 1E E1	* big only
PREV	00 BF 49 B6	
NEXT	00 BF 1D E2	
STOP	00 BF 19 E6	
SLOW	00 BF 1A E5	
REW	00 BF 1C E3	* big only
FWD	00 BF 1B E4	
SUBTITLE	00 BF 54 AB	
ANGLE/ROTATE	00 BF 4D B2	
AUDIO	00 BF 44 BB	
REPEAT	00 BF 4F B0	* big v1 only
SHUFFLE/PIP	00 BF 47 B8	* big v1 only

URL/2nd audio	00 BF 03 FC	* big v1 only
REC	00 BF 60 9F	* big v2 only
DUNE	00 BF 61 9E	* big v2 only
URL	00 BF 62 9D	* big v2 only
REC	00 BF 55 AA	* small only
PLAY/PAUSE	00 BF 56 A9	* small only
TOP MENU/DUNE	00 BF 57 A8	* small only

Old Remotes are supported by all Dune HD player models. New Remote v1 is supported by all Dune HD models starting with Dune HD Base 2.0. New Remote v2 and Small New Remote are supported by all Dune HD models starting with Dune HD Base/Prime 3.0 (old models require the latest firmware).

NOTE: Both kinds of Old Remote (Silver and Black versions) have overlapping IR codes -- the IR codes are the same for most buttons, but some buttons have different IR codes on Silver and Black versions of Old Remote; the setting "Setup / Misc / Advanced / Remote control kind" allows to specify the exact kind of Old Remote.

Full Power Off Using RC

Full Power Off Using RC is supported for all models starting with Dune HD Base 2.0. These player models have a special setting (Setup / Misc / Advanced / "POWER" RC button) allowing to specify whether the "POWER" RC button should trigger "software standby" or "full power off". It is also possible to perform an emergency "full power off" by pressing and holding the "POWER" RC button for 2 seconds, but this special possibility is not recommended for the regular usage (since this is handled purely by the hardware, and the player can not shutdown properly, such as properly writing all changes to connected HDDs).

Dune BD Prime, Dune HD Center, Dune HD Base models have an unofficial/incomplete support for switching the player off using the RC: this can not be done using Dune HD Remote, but can be done using a programmable remote, by sending a special HEX code to the player (handling of this HEX code is supported by the hardware of the IR receiver, but the Dune HD Remote is not able to generate this HEX code). The HEX code: will be published later.

Discrete Power On/Off IR Codes

Starting with the firmware version 091229_1411_beta, all Dune HD player models have support for DISCRETE-POWER-ON and DISCRETE-POWER-OFF IR commands. These IR commands can not be generated using any Dune HD Remote, and are intended only for users of programmable remotes.

IR HEX codes for DISCRETE-POWER-ON and DISCRETE-POWER-OFF commands (NEC protocol, customer code 00 BF):

DISCRETE-POWER-ON	00 BF 5F A0
DISCRETE-POWER-OFF	00 BF 5E A1

The player handles these DISCRETE-POWER-ON and DISCRETE-POWER-OFF IR commands exactly the same way as the standard POWER IR command (generated by the "POWER" RC button on the standard Dune remote), with the only difference that DISCRETE-POWER-ON is ignored if the player is already switched on, and DISCRETE-POWER-OFF is ignored if the player is already switched off.

Dune HD models starting with Dune HD Base 2.0 support both entering/exiting software standby mode and performing full power-on/off using these DISCRETE-POWER-ON and DISCRETE-POWER-OFF IR commands. (The behavior is determined by the "POWER RC button" setting.)

Previous Dune HD models support only entering/exiting software standby mode using these DISCRETE-POWER-ON and DISCRETE-POWER-OFF IR commands.

Forcing power-off

Dune HD models starting with Dune HD Smart/Max/Duo can be forced to perform full power-off by pressing and holding POWER RC button for 5 seconds; in this case, the power-off is forced by the hardware and the software has no chance to handle it (e.g. write unchanged data to disks etc), so it should be used carefully (e.g. when the player hangs up). The recommended way to put the player into full power-off mode is to configure POWER RC button to do full power-off. If POWER RC button is configured to enter software standby, the following alternative approach can be used: first press POWER RC button and wait for the player to enter standby mode; then press and hold POWER RC button for 2-3 seconds, and then release it -- this will trigger full power-off with proper software handling.

Dune HD Base 2.0 and Dune HD Base/Prime 3.0 can be forced to perform full power-off by pressing and holding POWER RC button for 2 seconds; in this case the power-off is forced by the hardware; so it should be used carefully (see above).

Automatic power-on mode

Dune HD models starting with Dune HD Smart/Max/Duo do not boot automatically when the power is connected. Instead they are put by default into hardware standby mode, and wait for the user to explicitly request power-on.

Dune HD Smart D1/B1/H1 (latest batches only, shipped starting with June-2011, serial number on the unit should be ASD1LHVAA***1123***00001 or greater), Dune HD Lite 53D, Dune HD TV-101/301 models can be reprogrammed to boot automatically on power-on. This possibility is helpful when the player should be used in "Digital Signage" (Dune HD Network) mode, and it can also be helpful in some other cases. Reprogramming affects the flash memory of the microcontroller which is responsible for power on/off handling, and can be done in the following way:

- Put the unit into hardware standby (full power-off) mode.
- Carefully direct the RC onto the IR eye.
- Carefully press the following sequence of RC buttons:
`P, O, W, E, R, 1, ENTER`
- The unit should LED-blink once. If the unit does not blink, try again
several times. If it does not work, it means the unit has an old version
of the MCU firmware and auto-power-on mode is not supported by the unit.
- To disable auto-power-on: the same, but press:
`P, O, W, E, R, 0, ENTER`

Dune HD Max/Duo models can not be reprogrammed to boot automatically on power-on.