

Common features for Dune HD Mini, Dune BD Prime, Dune HD Center players.

- Playback of media files (video, audio, photo) from any storage media connected to the player and from the network (from connected network drives).
 - Supported video file formats:
 - MKV, TS, M2TS, MPG, VOB, AVI, MOV, MP4, QT, ASF, WMV, DVD-ISO, VIDEO_TS.
 - Supported audio file formats:
 - MP3, MPA, WAV, WMA.
 - Supported picture file formats:
 - BMP, JPEG, PNG, GIF.
 - Supported video codecs:
 - MPEG2, MPEG4, DivX, XVID, WMV9, VC1, H.264.
 - Supported audio codecs:
 - AC3 (DD), EAC3 (DD+), DTS, MPEG 1/2/3, AAC, LPCM, WMA, WMAPro.
 - Supported subtitle formats:
 - SRT (for any file formats), plain text and SSA/AAS (in MKV files).
 - Supported formats of external audio tracks:
 - AC3, DTS.
 - Note: some variations of file formats may be unsupported.
 - Note: DTS decoding is not supported in some player models.
- Playback of DVD-Video discs (including DVD menu).
 - Models without internal optical drive — only using an external (USB) optical drive, which is available separately.
 - Also (for all models) playback of copies of DVD-Video discs in the form of ISO images and in the form of folders (VIDEO_TS) from any storage media connected to the player and from the network (from connected network drives).
- Playback and recording of IPTV.
 - Support for unscrambled IPTV channels which broadcast using the Multicast UDP (UDP raw, RTP) protocol with the MPEG-TS container format and MPEG2 and H.264 video codecs.
 - Setting up IPTV channels via playlists.
 - Recording of IPTV broadcast during the playback to the storage media connected to the player.
- Playback of media data and media streams from local and internet web-servers.
 - Playback of media files and media streams using HTTP protocol with given HTTP URLs.
 - Using playlists for specifying HTTP URLs.
- Connecting USB storage devices to the player.
 - Support for USB 2.0.
 - Support for USB hubs.
 - Maximum number of simultaneously connected USB storage devices:
 - Up to 8.
 - Supported storage types:
 - USB HDD, USB flash drive, USB card reader, USB DVD drive.
 - Supported file systems:
 - NTFS (read-only), FAT32, EXT2, EXT3.
 - Support for storage devices with several volumes.
- Connecting the player to the internet via the local network.
 - Manual and automatic (DHCP) network configuration.
- Connecting the player to the local network using Wi-Fi.
 - For models without internal Wi-Fi module — only by using an optional Wi-Fi module,

- which is available separately.
- Supported types of Wi-Fi modules:
 - USB 802.11n.
 - MiniPCI 802.11n (only for models with MiniPCI expansion slot).
- Manual and automatic (DHCP) network configuration.
- Configuration of Wi-Fi connection (Wi-Fi network, encryption options).
- Connecting network drives to the player.
 - Maximum number of simultaneously connected network drives:
 - Unlimited.
 - Supported access protocols for network drives:
 - SMB, NFS.
 - Possibility to specify a user name and a password for SMB connections..
 - User-defined names for connected network drives.
- Function of network file server (NAS, Network Attached Storage).
 - Embedded FTP server.
 - Embedded SMB server.
- Management of files and folders on connected storage media and connected network drives directly via the player.
 - Copying, moving, deleting and renaming of files and folders.
 - Detailed progress information for long operations, possibility to cancel long operations.
- Universal web browser for viewing web sites.
 - Launching the browser for viewing any web site (user enters the web site address).
 - Web site viewing capabilities which are analogous to the Mozilla Firefox (the same software engine is used).
 - Support for complex web sites viewing (including complex HTML pages and JavaScript).
 - Web browser support for the Full-HD resolution (1920×1080).
 - Possibility to use remote control in the web browser, including text input and mouse emulation.
 - Possibility to use USB keyboard and USB mouse in the web browser.
 - Note: the web browser performance, especially while viewing complex web sites, may be significantly lower than the one of a PC; the time for the web browser launching, page loading and user commands reaction may be as long as several seconds up to tens of seconds.
 - Note: Flash and Java are not supported.
 - Note: downloading and playback of files directly in the web browser are not supported.
- Torrent client for peer-to-peer file sharing networks.
 - Downloading and distributing of torrents by the player using a connected storage media.
 - Starting torrent download just by selecting a torrent file in the player's file browser.
 - Starting torrent download using the player's web browser (viewing torrent sites directly via the player and adding a torrent just by selecting a torrent hyperlink).
 - Viewing and managing the current torrent list (including display of the current statistics and possibility to stop/resume torrents) directly via the player.
- Extended capabilities of playback control and playback parameters configuration.
 - Pause.
 - Fast jump into the selected position.
 - Fast/slow playback.
 - Audio track selection.
 - Subtitles selection.
 - Volume, mute.
 - Picture parameters (brightness, contrast, saturation, color).
 - Zoom control and aspect ratio correction.

- Correction of the synchronization between audio and video.
- Selection of deinterlacing mode.
- Some other settings and capabilities.
- Note: some capabilities are not supported for some file types.
- Extended support for playlists.
 - Sequential playback of given files.
 - Sequential playback of all files in the current folder, starting from the selected file.
 - Playback of all files in the selected folders.
 - Playback of files listed in a playlist.
 - HTTP links and IPTV links in playlist files.
 - Advanced capabilities of playlist files processing (support for links to other playlists, automatic playlist recognition when playing a folder, etc).
 - Playlist viewing and navigating during the playback.
 - Supported playlist file formats:
 - M3U, PLS.
- Extended set of audio and video outputs.
 - HDMI, Component, Composite, S-Video, analog audio output (stereo).
- Support for HDMI 1.3.
 - The newest Silicon Image SiI9134 HDMI transmitter chip with the support for HDMI 1.3.
- Extended set of supported video modes.
 - HDMI:
 - 480i, 480p (60 Hz)
 - 576i, 576p (50 Hz)
 - 720p (50 Hz, 60 Hz)
 - 1080i (50 Hz, 60 Hz)
 - 1080p (24 Hz, 25 Hz, 30 Hz, 50 Hz, 60 Hz)
 - 1024×768, 1280×1024, 1280×768, 1280×960, 1360×768, 1366×768, 1400×1050, 1440×900, 1600×1200, 1680×1050, 1920×1200 (60 Hz)
 - Component:
 - PAL
 - NTSC
 - 480p (60 Hz)
 - 576p (50 Hz)
 - 720p (24 Hz, 25 Hz, 30 Hz, 50 Hz, 60 Hz)
 - 1080i (48 Hz, 50 Hz, 60 Hz)
 - 1080p (24 Hz, 25 Hz, 30 Hz, 50 Hz, 60 Hz)
 - Composite:
 - PAL
 - NTSC
 - Note: some video modes may be not supported — it depends on the player mode, type of data being played back, and peculiarities of video hardware connected to the player.
- Possibility to set up audio output modes.
 - Switching between audio stream decoding by the player and direct bitstream passing to the receiver.
 - Switching the audio transmission via HDMI on and off.
 - Note: some settings may be not supported — it depends on the player model, type of the data being played back, and the peculiarities of the audio hardware connected to the player.
- Optimized user interface with Full-HD quality.
 - User interface painting with maximum possible detailing even when using Full-HD modes (1920×1080).

- Specially optimized software, which uses the hardware capabilities of the graphics accelerator to the maximum extent and thus provides a high speed of player reaction to user commands.
- A number of other advanced capabilities.
 - Embedded function of formatting a connected storage media.
 - Embedded function of read speed testing for connected storage media and network drives.
 - Support for firmware upgrade.

Specifics of Dune HD Mini.

- Miniature form factor.
- Optional internal SATA hard drive.
 - The hard drive may be installed inside the player case.
 - Any SATA disk of 3.5 inches may be used.
 - Supported file systems:
 - NTFS (read-only), FAT32, EXT2, EXT3.
 - Support for several volumes on the hard drive.
- Fast hard drive replacement using a rack mechanism.
 - Installation/removing of a hard drive does not require opening the player case.
- "USB Slave" connector.
 - The player may be connected to a computer as a USB storage for superfast file copy to/from player's internal hard drive.
- 2 USB connectors (USB 2.0) for connecting USB storage devices.
 - One connector in the front panel, one at the rear plate.
- Optical digital audio output.
 - The player may be connected to a receiver using an optical audio cable.
- External power supply unit.
 - Standard 12 V DC connector.

Product dimensions: 268mm (length) x 138mm (width) x 43mm (height)

Specifics of Dune BD Prime.

- Form factor of a classic audio-video device.
- Internal Blu-ray drive.
- Playback of Blu-ray discs.
 - Support for BD-Java.
- Playback of Blu-ray disc copies from any storage media connected to the player and from the network (from connected network discs).
- Support for HD audio formats.
 - Supported HD audio formats:
 - DTS HD (High Resolution Audio).
 - DTS HD MA (Master Audio).
 - Dolby True HD.
 - Decoding of the audio stream by the player.
 - Passing the original audio bitstream via HDMI 1.3.
 - Note: only for Blu-ray discs playback.
- Support for DTS decoding by the player.
- 3 USB connectors (USB 2.0) for connecting USB storage devices.
 - One connector in the front panel, two at the rear plate.
- Optical digital auto output.
 - The player may be connected to a receiver using an optical audio cable.
- Co-axial digital auto output.
 - The player may be connected to a receiver using a co-axial audio cable.
- 7.1 channel analog audio output.
 - 8 RCA connectors for analog connection to a receiver, which provides a 7.1 channel sound.
- Front panel display with current player state indication.
- Front panel buttons which turn the player's power on/off and allow to control the player without using the remote control.
 - Supported player control commands:
 - EJECT, PLAY/PAUSE, STOP.
- Internal power supply unit.
- MiniPCI connector for extending the player capabilities.
- Option: Wi-Fi 802.11n.
 - MiniPCI board + three antennas at the rear plate.
- Option: Gigabit Ethernet.
 - MiniPCI board + extra Ethernet connector at the rear plate.
- Option: two eSATA connectors at the rear plate.
 - MiniPCI board + two eSATA connectors at the rear plate.

Product dimensions (with legs): 430mm (length) x 270mm (width) x 50mm (height)

Specifics of the Dune HD Center.

- Form factor of a classic audio-video device.
- Internal Blu-ray drive.
- Playback of Blu-ray discs.
 - Support for BD-Java.
- Playback of Blu-ray disc copies from any storage media connected to the player and from the network (from connected network discs).
- Support for HD audio formats.
 - Supported HD audio formats:
 - DTS HD (High Resolution Audio).
 - DTS HD MA (Master Audio).
 - Dolby True HD.
 - Decoding of the audio stream by the player.
 - Passing the original audio bitstream via HDMI 1.3.
 - Note: only for Blu-ray discs playback.
- Support for DTS decoding by the player.
- Optional internal SATA hard drive.
 - The hard drive may be installed inside the player case.
 - Any SATA drive of 3.5 inches may be used.
 - Supported file systems:
 - NTFS (read-only), FAT32, EXT2, EXT3.
 - Support for several volumes on the hard drive.
- Fast hard drive replacement using a rack mechanism.
 - Installation/removing of a hard drive does not require opening the player case.
- Hot-swap of the hard drive.
 - Installation/removing of the hard drive does not require turning the player off, nor its rebooting.
- 3 USB connectors (USB 2.0) for connecting USB storage devices.
 - One connector in the front panel, two at the rear plate.
- Optical digital auto output.
 - The player may be connected to a receiver using an optical audio cable.
- Co-axial digital auto output.
 - The player may be connected to a receiver using a co-axial audio cable.
- 7.1 channel analog audio output.
 - 8 RCA connectors for analog connection to a receiver, which provides a 7.1 channel sound.
- Front panel display with current player state indication.
- Front panel buttons which turn the player's power on/off and allow to control the player without using the remote control.
 - Supported player control commands:
 - EJECT, PLAY/PAUSE, STOP.
- Internal power supply unit.
- MiniPCI connector for extending the player capabilities.
- Option: Wi-Fi 802.11n.
 - MiniPCI board + three antennas at the rear plate.
- Option: Gigabit Ethernet.
 - MiniPCI board + extra Ethernet connector at the rear plate.
- Option: two eSATA connectors at the rear plate.
 - MiniPCI board + two eSATA connectors at the rear plate.

Product dimensions (with legs): 429mm (length) x 296mm (width) x 94mm (height)

Dune HD Network.

The Dune HD Network system is an option which may be used with different Dune players.

- Supported Dune players:
 - Dune HD Mini.
 - Dune BD Prime.
 - Dune HD Center.
- For using the Dune player as a Dune HD Network component:
 - A special player version should be purchased with installed license for Dune HD Network functionality, or such license may be purchased and installed separately.
 - The player should have an internal hard drive, or an external USB hard drive should be connected (for storing media files).
- If the Dune HD Network option is purchased, all the basic player functionality remains available.

Additional player functions when using the Dune HD Network system:

- Special "Presenter" player mode.
- Possibility to automatically enter the "Presenter" mode after power on.
- "Presenter" mode: showing the programmed sequence of video clips and static images.
 - Note: the set of supported file formats may differ from the one of the basic player functioning. The main difference is the absence of MKV file format support.
- Showing text messages in the form of a scrolling text line.
- Showing additional logos.
- Flexible configuration options.
 - Configuring the scrolling text.
 - Configuring the static images showing.
 - Configuring the logos showing.
- Working using a defined schedule.
 - Using different configurations in different time intervals.
 - Turning the player on and off according to the schedule.
 - Flexible capabilities of schedule configuration (including the possibility to specify an individual schedule for each day of week).
- Configuring all parameters via a configuration file which is available on the network for reading and writing via the FTP protocol.
- Possibility to use additional "Dune HD Network Manager" software for centralized remote control of the players on a network.
 - Support for controlling multiple players and groups of players.
 - Convenient user interface for players configuration.

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