

Warning!

Please read the user manual included in this work as it contains important information related with safety of installation and use of the device.

Only persons who read the user manual may use the device.

The user manual must be kept because it may be required in the future. The device is to be used exclusively for purposes specified in this user manual.

The device must be unpacked prior to starting-up. After removing the packaging make sure the device is in working order.

If the product has defects, it should not be used until it is repaired.

The product is intended for use at home and commercial use and may not be used for other than intended use.

The manufacturer is not liable for damages resulting from not adhering to the rules contained in the user manual, therefore, we recommend to follow the aforementioned safety rules for operation and maintenance of the device. In this way you will ensure yourself safety and avoid causing damage to the device.

The manufacturer and the supplier are not liable for losses or damages arising out of the product, including financial or intangible losses, loss of profits, income, data, pleasure from use of the product or other products related with it - indirect, incidental or consequential loss or damage. The above provisions apply whether the loss or damage concerns:

1. Deterioration of quality or the lack of operation of the products or products related with it due to damage as well as the lack of access to the product when it is undergoing repair, which results in stoppage the loss of user's time or a break in business activity;
2. Improper results of operation of the product or products related with it;
3. It applies to losses and damages according to any legal category, including negligence and other losses, termination of a contract, expressed or implied guarantee and strict liability (even if the manufacturer or the supplier was notified about the possibility of occurrence of such damages).

Safety measures:

Particular attention at designing was directed to quality standards of the device where ensuring safety of operation is the most important factor.

The device must be secured against contact with caustic, staining and viscous fluids.

The device was designed in such a way that it restarts operation when power supply is restored after a break.

Attention! We recommend using protections to further protect the device from possible overvoltages in installations. Surge protectors are effective protection against accidental pass to the device voltages higher than the rated. Damages caused by pass the voltages higher than specified in manual, are not under warranty.

Turn off the device before transporting it.

Prior to connecting the device to a power source check whether the supplied voltage is consistent with rated voltage specified in the user manual.

Proper product disposal:

A marking of a crossed out waste bin indicates that the product may not be disposed together with other household waste in the entire EU. To avoid possible damage to the natural environment of health due to uncontrolled waste disposal, therefore, it should be handed over for recycling, propagating in this way sustainable use of natural resources.

To return a worn-out product, use a collection and disposal system of this type of equipment or contact a seller from whom it was purchased. He will then be recycled in an environmentally-friendly way.

DVB-T/T2 digital terrestrial television receiver with support for the HbbTV hybrid television standard, which combines the emission of a typical television signal with multimedia content delivered to the TV via broadband Internet. The decoder is compatible with the DVB-T2 standard encoded with the H.265/HEVC 10bit codec - a new generation of television broadcasting.

The analog EURO/SCART connector enables cooperation with TV sets that do not have a digital input, e.g. CRT TV sets. You can use the HDMI connection to deliver HD quality signals to your TV. The SPDIF COAXIAL digital audio output allows you to connect the tuner to your home cinema system and listen to the Dolby Digital Plus E-AC-3 multi-channel sound. The LAN port enables a cable connection to the Ethernet network, and, using a WLAN/USB card, to a Wi-Fi network.

The device plays pictures, music and videos - both in SD resolution and in high definition HD. The USB port allows to record video data (PVR) to external data media, such as hard disks or flash memory (pendrives).





User Manual

Code: T-BOX

HD DVB-T/DVB-T2 DIGITAL RECEIVER **T-BOX** H.265/HEVC HbbTV OPTICUM

Input frequency:	<ul style="list-style-type: none">• 174 ... 230 MHz (VHF),• 470 ... 862 MHz (UHF)
Input impedance:	75 Ω
Standard:	DVB-T / DVB-T2 / HbbTV 2.0.1
Supported resolutions:	480i, 480p, 576i, 576p, 720p, 1080i, 1080p
Audio sampling:	32 kHz, 44.1 kHz, 48 kHz
Demodulation:	QPSK, 16-QAM, 64-QAM, 256-QAM
Image format:	4:3, 16:9, Pan&Scan, Letterbox
Audio decoder:	MPEG-1 layer I, II, MPEG-2 layer II, HE-AAC Digital Audio, AC3, MP3
Video decoder:	HEVC/H.265 HP @L4, MPEG-4 AVC/H.264 MP @L4, MPEG-4 AVC/H.264 HP @L4, MPEG-2 (MP@HL), MPEG-2 (MP@ML), MPEG-1
Connectors:	<ul style="list-style-type: none">• HDMI 1.4,• IEC socket,• 2 x USB 2.0,• EURO (CVBS, RGB),• SPDIF Coaxial audio - Cinch socket,• RJ-45 - Ethernet,• DC 2.1/5.5mm socket - 12 V
Video formats:	AVI, MKV, MP4, VOB, TS, MT2S, FLV, MPG, 3GP, MOV
Supported audio formats:	MP3, MP2, AAC
Image formats:	JPEG, JPG, PNG, BMP, GIF
Main features:	<ul style="list-style-type: none">• HbbTV 2.0.1 - support for multimedia content and interactive channels (hybrid TV)• DVB-T2 HEVC H.265 compliance• 10-bit color depth signal support - 10-bit color tone depth• Full HD 1080p• Coaxial audio : Dolby Digital (AC-3), Dolby Digital Plus (EAC-3)• Possibility to power the antenna amplifier through a decoder with voltage 5V.• SD and HD quality channels, Auto detection, 5000 Channels• Separate lists of favourite, TV and radio channels• Fast channel switching• Channel list edition• Automatic or manual search for available TV and radio channels• Logical Channel Number (LCN) support• Teletext and screen text support• Audio description• Electronic Program Guide - EPG - 7 days• PVR function• Wi-Fi Ready function• Timer - recording scheduling• parental control• Multimedia player• LED display• Manual and OSD menu in Polish language• Automatic switch-off - adjustable up to 3 h• Firmware upgrade via USB port• Software update via network• Processor: Montage MS2456• Internal memory : 512MB DDR3, 256MB NAND Flash
Power supply:	12 V DC / 1 A (power adapter included)
Power consumption:	< 12 W (operation) < 1 W (Standby mode)

Operation temp:	-5 °C ... 50 °C
Weight:	0.21 kg
Dimensions:	150 x 101 x 34 mm
Supported languages:	Polish, English and others
Manufacturer / Brand:	OPTICUM
Guarantee:	2 years

Front panel:



Rear panel:



Connectors:





In the kit:



PACKAGE

Dimensions (L x W x H): 0x0x0 mm	Gross Weight: 0 kg
----------------------------------	--------------------