



velleman DVB-T Receiver User Manual

[Home](#) » [Velleman](#) » **velleman DVB-T Receiver User Manual**

velleman®

DVB-T Receiver User Manual



Contents

- [1 Introduction](#)
- [2 Safety Instructions](#)
- [3 General Guidelines](#)
- [4 Description](#)
- [5 Remote Control](#)
- [6 Connection](#)
- [7 Remote Control](#)
- [8 Installation](#)
- [9 Menu](#)
- [10 Troubleshooting](#)
- [11 Technical Specifications](#)
- [12 Documents / Resources](#)
- [13 Related Posts](#)

Introduction

To all residents of the European Union

Important environmental information about this product



This symbol on the device or the package indicates that disposal of the device after its lifecycle could harm the environment. Do not dispose of the unit (or batteries) as unsorted municipal waste; it should be taken to a specialised company for recycling. This device should be returned to your distributor or to a local recycling service. Respect the local environmental rules.

If in doubt, contact your local waste disposal authorities.

Thank you for buying the DVBTR! Please read the manual thoroughly before bringing this device into service. If the device was damaged in transit, don't install or use it and contact your dealer. Features:

- Connectable to any TV set (PAL / NTSC)
- Easy connection and operation
- Perfect digital and noise-free image and sound
- Perfect reception with a standard antenna

Safety Instructions



Be very careful during the installation: touching live wires can cause life-threatening electroshocks. Keep this device away from rain and moisture.

- Damage caused by disregard of certain guidelines in this manual is not covered by the warranty and the dealer will not accept responsibility for any ensuing defects or problems.
- Make sure that the available voltage does not exceed the voltage stated in the specifications of this manual.
- Do not crimp the power cord and protect it against damage. Have an authorised dealer replace it if necessary.
- Do not plug or unplug the power cord when your hands are wet.
- Keep the power cord away from heat sources. Clean the plug every now and then.
- Switch the unit to standby mode or turn off the power when the unit is not being used. Disconnect the device from the mains to clean it. Handle the power cord by the plug only.
- If the device emits smoke, bad smells or noises, switch off the unit and disconnect the power cord from the mains.

- Note that damage caused by user modifications to the device is not covered by the warranty.
- Keep the device away from children and unauthorised users.

General Guidelines

- The DVBTR should only be used with an alternating current of max. 230VAC / 50Hz.
- Do not attempt to disassemble the unit.
- Select a location where the device is protected against extreme heat (see “Technical Specifications”), dust and moisture.
- Keep the unit out of direct sunlight. Do not place the unit near heating devices or in automobiles. Avoid places with excessive dust, strong magnetic or static electricity and vibrations.
- Keep the device away from water and other liquids. Never bring magnetic objects near the unit.
- Place the unit in a horizontal position and avoid placing heavy objects atop of it. Do not place the device on top of amplifiers or other heat-producing equipment.
- All modifications of the device are forbidden for safety reasons.
- Only use the device for its intended purpose. All other uses may lead to short circuits, burns, electroshocks, crash, etc. Using the device in an unauthorised way will void the warranty.

Description

Front Panel



1. Standby button	5. Standby LED
2. Power LED	6. IR sensor
3. Lock LED	7. PROG ▼ button (DOWN / CH -)
4. Digital LED display	8. PROG ▲ button (UP / CH +)

Rear Panel

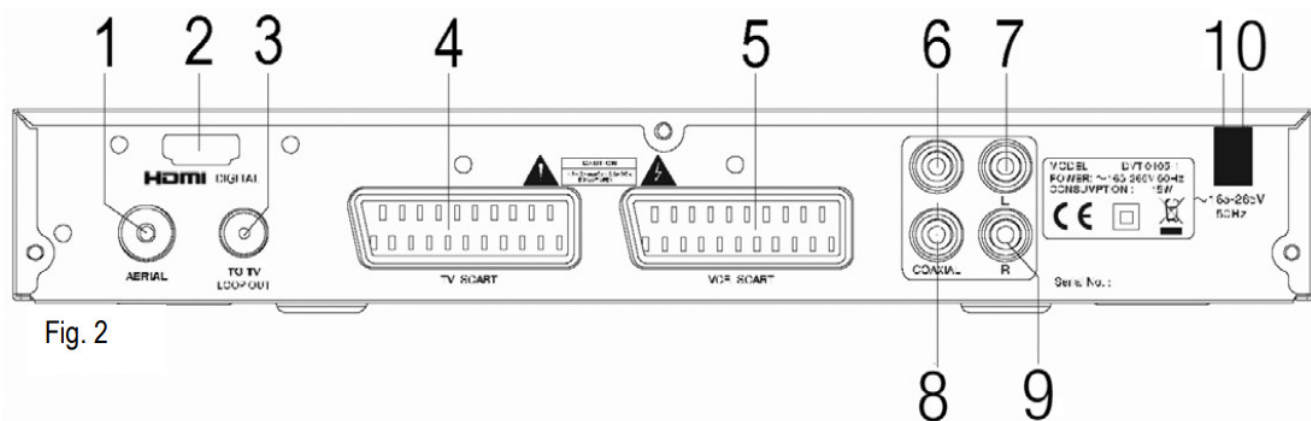


Fig. 2

1. Aerial connection	6. Video output
2. HDMI™ output jack	7. Left channel output connection
3. Loop out connection	8. Audio coaxial output connection
4. TV SCART connection	9. Right channel output connection
5. VCR SCART connection	10. AC power cord

NOTE: Unplug and keep the power cord orderly when the unit is idle for a long time in order to avoid electricity leakage and shock.

Remote Control

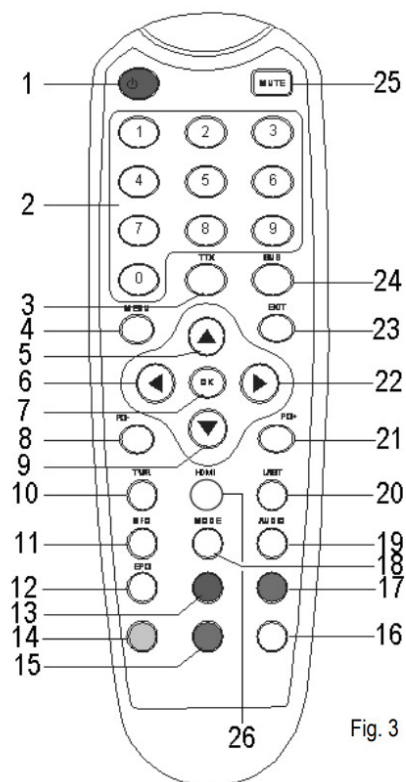


Fig. 3

1. Standby button	14. YELLOW button
2. Numerical buttons	15. BLUE button
3. TTX (Teletext) button	16. WHITE button
4. MENU button	17. GREEN button
5. ▲ button (UP / CH +)	18. MODE button
6. ◀ button (LEFT / VOL -)	19. AUDIO button
7. OK button	20. LAST button (last channel)
8. PG- button (page down)	21. PG+ button (page up)
9. ▼ button (DOWN / CH -)	22. ▶ button (RIGHT / VOL +)
10. TV / R button (TV / radio channel)	23. EXIT button
11. INFO button (channel information)	24. SUB button (subtitle)
12. EPG button (Electronic Program Guide)	25. MUTE button
13. RED button	26. HDMI™

Connection

- Make sure the power switch and other equipment to be connected are turned off before connection.
- Observe the colour coding when connecting audio and video cords.
- Use the correct output mode when connecting the system to the TV set (including signal mode and signal code type) to avoid image distortion.

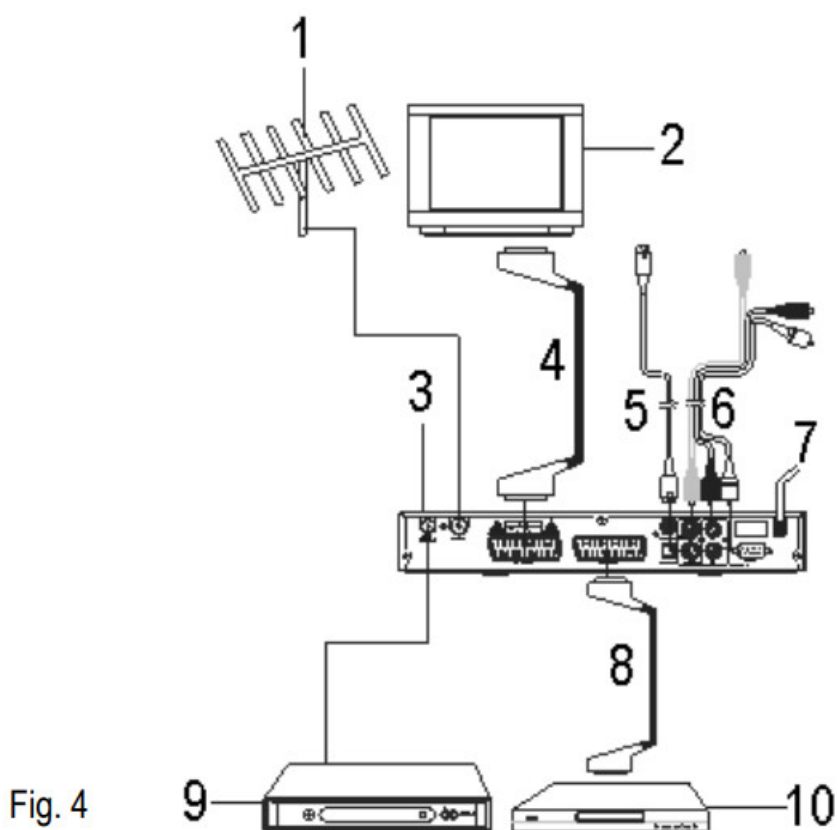


Fig. 4

1. Aerial (optional)	6. Audio / Video cable (cable optional)
2. TV set (optional)	7. Power cord
3. DVBTR	8. VCR SCART connector (cable optional)
4. TV SCART connector (cable optional)	9. Second DVBTR (optional)
5. Digital video connector	10. VCR (optional)

Remote Control

Battery Installation

Insert the batteries respecting the polarity.

Batteries' Service Life

- The batteries normally last up to one year depending on frequency of usage.
- Replace the batteries when the remote control unit fails to work. Do not mix old and new batteries.
- Use 2 x AAA batteries. Do not use rechargeable (NiCd) batteries.
- Do not short circuit, disassemble, heat or throw the batteries into the fire.
- Do not drop or step onto the remote control.
- Remove the batteries when the remote control is not being used for a long time to avoid electrolytic leakage.

Wipe away any electrolyte leakage inside the remote control. If any leaking should come into contact with parts of your body, rinse thoroughly with water.

Operation Range

- The operation range is up to 5 meters in angle of 60° of the front of the IR sensor.
- The operating distance may vary according to the room's brightness.
- Do not point bright lights at the remote control sensor.
- Do not place objects between the remote control and the IR sensor. Do not use the remote control while simultaneously operating the remote control of any other equipment.

Installation

Connect this unit and other equipment according to fig. 4 (see "5. Connection").

- Switch on the device via the power switch on the front panel.
- Press the MENU button to enter the MAIN MENU.
- Select a submenu with/ and press OK to enter. Press / to select an option and exit the submenu by pressing ENTER.



Shortcut keys:

MUTE: press to mute/un-mute the sound.

TTX: press this button to show the teletext information (if available).

SUB: turn the subtitles on/off by pressing this button.

STANDBY: enter the standby mode, press again to return to working status.

CH+/CH- (◀▶): press this button to enter the next or previous menu.

VOL+/VOL- (▲/▼): adjust the volume level.

OK: press to confirm.

PG+/PG-: press this button to go to the next/previous page.

TV/R: press to switch between TV channels and radio channels.

LAST: return to the last service.

INFO: press this button to show the information of the current service.

MODE: press to browse nine channels at the time.

RED, GREEN, YELLOW, BLUE: function operation.

AUDIO: press to select the audio language or audio output mode.

P-TIMER: press to set the program timer.

HDMI: press to switch between digital and normal AV output.

The Channel Menu

This window shows the channel list. Choose one the four submenus.

TV Channel List

- Choose a channel with ▲/▼.
- Press ◆ to select a favourite group.
- Quit the submenu with MENU or EXIT.
- Press numeric button 1 to edit all TV channels.
- Press numeric button 2 to search for a particular channel.
- Press numeric button 3 to sort the TV channels into various favourite groups.
- Press numeric button 4 to move the TV channel to a different place.
- Press PG+/PG- to see the next/previous page. A maximum of 400 channels can be stored.



Radio Channel List

- Choose a channel with ▲/▼.
- Press ◀▶ to select a favourite group.
- Quit the submenu with MENU or EXIT.
- Press numeric button 1 to edit all radio channels.
- Press numeric button 2 to search for a particular channel.
- Press numeric button 3 to sort the TV channels into various favourite groups.
- Press numeric button 4 to move the radio channel to a different place.
- Press PG+/PG- to see the next/previous page. A maximum of 400 channels can be stored.

Delete All Favorites/Delete All

- Press OK to select the submenu and to delete all the favourite TV and radio channels or all stored channels.

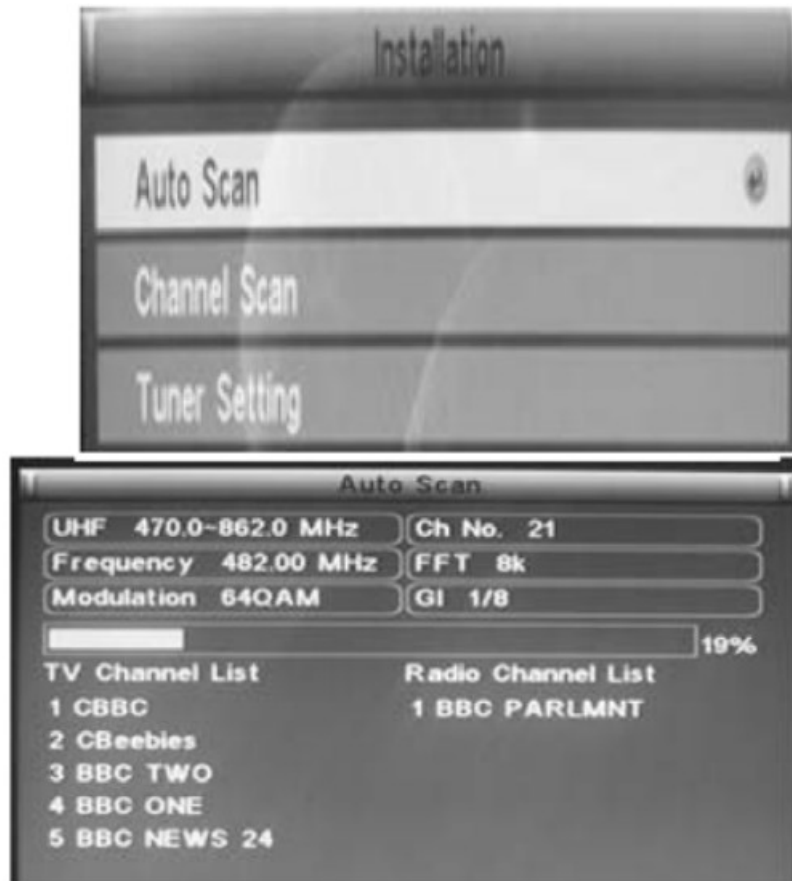
The Installation Menu

This window shows the installation menu. Choose one the three submenus.

Auto Scan

- Scan Mode: scan all free or all channels (including paid channels).
- Search: press OK to conduct an automatic scan or press EXIT to quit. The scan box displays the scan

progress as well as details about the scan band, frequency, demodulation mode, channel number, transmission mode and guard interval.



Channel Scan

- Scan Mode: scan by channel/frequency.
- Scan Band: select the VHF/UHF band.
- Ch No: channels 5 ~ 12 (VHF) and channels 21 ~ 69 (UHF).
- Frequency: frequencies 174 ~ 230MHz (VHF) and 470 ~ 862MHz (UHF) are available.
- Band Width: select between 6MHz, 7MHz and 8MHz.
- Search: press OK to conduct an automatic scan or press EXIT to quit. The scan box displays the scan progress as well as details about the scan band, frequency, demodulation mode, channel number, transmission mode, guard interval, signal intensity and signal quality.



Tuner Setting

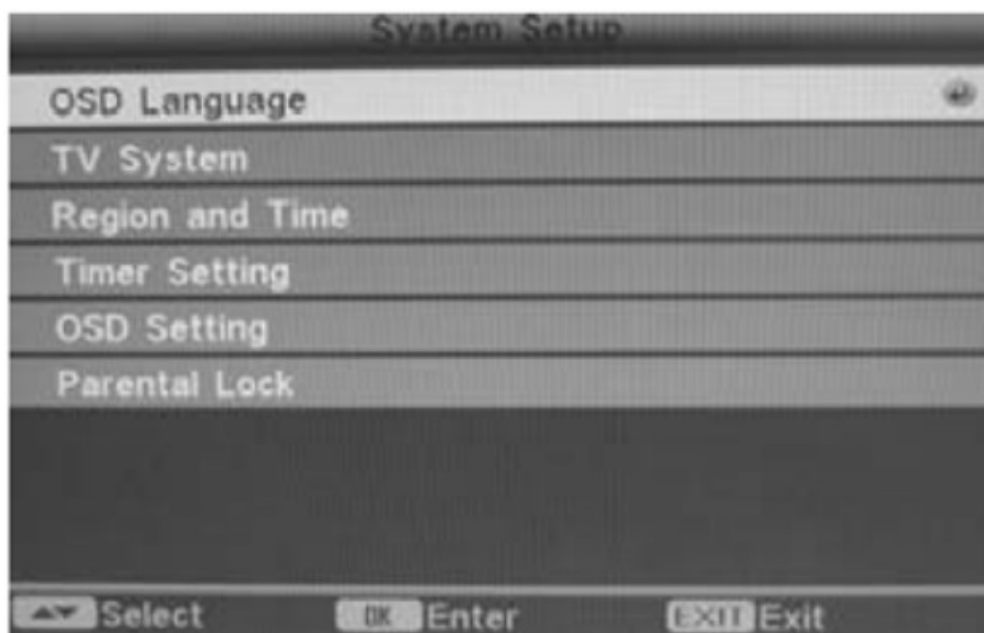
- On/Off: enable or disable the 5V power supply for the active antenna.

The Setup Menu

This window shows the setup menu. Choose one the six submenus.

OSD Language

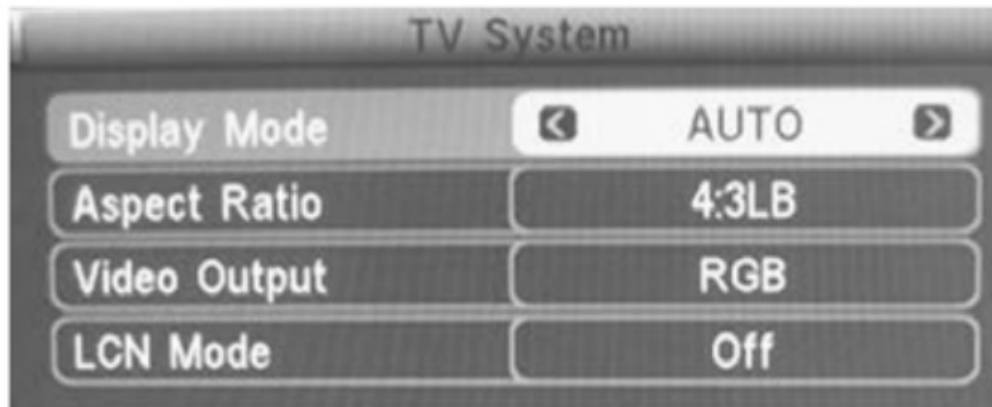
- Press OK to enter the menu and choose a language: English, Croatian, Czech, Danish, Dutch, Finnish, French, German, Greek, Hungarian, Italian, Polish, Portugal, Russian, Slovak or Spanish.



TV System

- Display Mode: Auto, PAL, NTSC.

- Aspect Ratio: 4:3 LB, 4:3 PS, 16:9.
- Video Output: CVBS, RGB, HDMI™.
- LCN Mode: On/Off. Select On to automatically list the channels in a natural order according to the stream. Select Off to list the channels in a routine order of channel numbers.



Region and Time

- Region: France, Germany, Greece, Iran, Italy, Poland, Portugal, Russia, Spain, Sweden, United Kingdom, Vietnam, Argentina, Australia, Czech, Denmark and Finland.
- GMT Usage: User Define, By Region and Off.
- GMT Offset: Within GMT + 12:00 ~ GMT -11:30.
- Date: Press OK to start the setup, then move the cursor with /and use the numeric buttons to modify the date. Press OK to confirm.
- Time: Press OK to start the setup, then move the cursor with /and use the numeric buttons to modify the time. Press OK to confirm.
- Summer Time: On/Off.
- Time Display: On/Off.



Summer Time only available when By Region is selected; GMT Offset only available when User Define is selected

Timer Setting

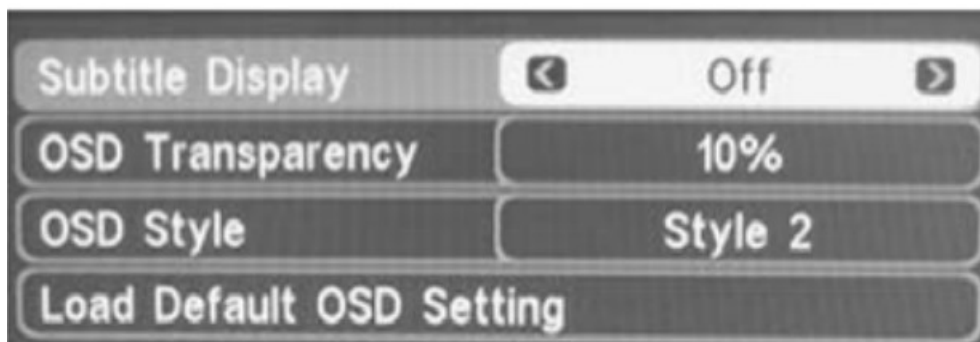
- Program Timer: Timer Number (1 ~ 8), Timer Mode (Once, Daily, Weekly, Monthly), Timer Service (TV/Radio), Wakeup Channel, Month, Date, Day, Time.
- Sleep Timer: Off, 10 min, 30 min, 60 min, 90 min, 120 min. Press OK to confirm.
- Remains: Displays the remaining sleep time.



OSD Setting

- Subtitle display: On/Off.
- OSD Transparency: 10%, 20%, 30%, 40%, 50%, 60%, 70%.
- OSD Style: Style 1, Style2.
- Load Default OSD Setting: Yes/No or Restore to default settings.

Parental Lock



- Enter the default password (0000) to enter the setup page.
- Menu Lock: On/Off.
- Channel Lock: On/Off.
- Parental Lock: None, Age 4 ~ 18.
- New Password: Press OK and enter your new password.
- Confirm password: Re-enter your password and press OK to confirm.



Tools

This window shows the tools menu. Choose one the three submenus.

Receiver Information



Tools

This window shows the tools menu. Choose one the three submenus.

Receiver Information

- Move the cursor and press OK to display information about the receiver, hardware, software and remote control.

Game

- Choose a game: Tetris®, Snake® or Othello®.

Load Factory Default

- Press OK to load the default settings. Press Yes and OK to confirm. We recommend setting the default settings at first use.

Menu

Main Menu	Submenu	Options		Description
	TV channel list			
	Radio channel list			
Channel	Delete all favourites			
	Delete all			
Installation	Auto scan		Free	Scan free channels
		Scan mode	All	Scan all channels
		Search		
	Channel scan	Scan mode	By channel	
			By frequency	
		Scan band	VHF	
			UHF	
		Ch no	5 —12 VHF channels	
			21 — 69	UHF channels
		Frequency	174 — 230MHz	VHF frequency
			470 — 862MHz	UHF frequency
		Bandwidth	6MHz	
			7MHz	
			8MHz	
		Search		
	Tuner setting	Tuner power	On/off	Active antenna on/off
			English	
			Croatian	
			Czech	
			Danish	
			Dutch	
			Finnish	
			French	

Setup	OSD language	OSD language	German	
			Greek	
			Hungarian	
			Italian	
			Polish	
			Portuguese	
			Russian	
			Slovak	
			Spanish	
	TV system	Display mode	Auto	
			PAL	
			NTSC	
		Aspect ratio	4:3 LB	Letterbox
			4:3 PS	P-scan
			16:09	
		Video output	CVBS	
			RGB	
			HDMI1”	
		LCN mode	On/off	
	Region and time	Region	France	
			Germany	
			Greece	

			Iran	
			Italy	
			Poland	
			Portugal	
			Russia	
			Spain	
			Sweden	
			United Kingdom	

			Argentina
			Australia
			Czech Republic
			Denmark
			Finland
		GMT usage	User define
			By region
			Off
		GMT offset	GMT+12:00—GMT-11 30
		Date	
		Time	
		Summer Time	On/off
		Time display	On/off
	Timer setting	Program timer	Timer number
			Timer mode
			Timer service
			Wake up channel
			Month
			Date
			Day
			Time
		Sleep timer	Off/10/30/60/90/120 min
		Remains	
	OSD setting	Subtitle display	On/off
		OSD transparency	Off
			10/20/30/40/50%
			60/70%
		OSD style	Style 1

			Style 2		
		Load default OSD setting			
	Parental lock	Menu lock	On/off		
		Channel lock	On/off		
		Parental lock	None/age 4 — 18		
		New password			
		Confirm password			
Tools	Receiver info	Receiver		Display info about receiver	
		Hardware			
		Software			
		Remote control			
	Game	Tetris			
		Snake			
		Othello			
	Load factory default				

Troubleshooting

Some simple checks or a minor adjustment may eliminate the problem and restore proper operation. Let a technician maintain the unit.

Keep the device away from static electricity during maintenance as the video processor is very sensitive.

Trouble	Possible Cause	Suggested Solution
No power	Power cord has not been connected properly	Plug the power cord tightly into the power outlet and switch on the power. If there still is no power, switch off the unit again and wait 5 to 10 min. before switching the unit on
Can not scan program	<ul style="list-style-type: none"> •Antenna is not adjusted properly •Parameter input is incorrect •Use the antenna correctly 	<ul style="list-style-type: none"> •Adjust the antenna or use an outdoor antenna •Use an antenna with a 75Ω impedance •Set the frequency and bandwidth correctly
No picture	<ul style="list-style-type: none"> •Output cord incorrectly connected •Video output mode of the unit is set differently than the mode of the monitor 	<ul style="list-style-type: none"> •Connect the output cord correctly •Reset the working mode
No colour	<ul style="list-style-type: none"> •Output cord incorrectly connected •Video output mode of the unit is set differently than the mode of the monitor 	<ul style="list-style-type: none"> •Connect the output cord correctly •Reset the working system
Image distortion from one channel to another	Normal	
The RCU is not working	<ul style="list-style-type: none"> •Batteries incorrectly inserted •Batteries are exhausted •Operation distance is too far or operating angle is too large •Remote control sensor is obstructed by bright light 	<ul style="list-style-type: none"> •Insert the batteries correctly •Replace the batteries •Operate within the range •Place the unit in another place
Audio sound and subtitle cannot be chosen	Sound channel incorrectly chosen	Press the AUDIO button to shift the channel
No sound	<ul style="list-style-type: none"> •Mute button is pressed •Volume is set at a low level •Cable incorrectly connected 	<ul style="list-style-type: none"> •Cancel the mute •Augment the volume •Connect the cable correctly
Sudden sound drop	<ul style="list-style-type: none"> •Short circuit •Mute button is pressed •Entering sleeping status 	<ul style="list-style-type: none"> •Connect the output cable correctly and reopen the unit •Cancel the mute •Reopen the unit
Seriously distorted reception	Serious interferential status	Adjust the antenna

Technical Specifications

Tuner

Input Frequency Range	174 ~ 230MHz; 470 ~ 862MHz
IF Bandwidth	7 or 8MHz
Input Signal Level	-72 ~ -20dBm
RF Input Connector	IEC169-2 type, female
RF Output Connector	IEC type, male
Input Impedance	75Ω

Demodulation Mode

Waveform	COFDM (Code Orthogonal Frequency Division Multiplexing)
Demodulation	QPSK, QAM16, QAM64
Mode	Mode 2K, 8K
Guard Interval	1/4, 1/8, 1/16, 1/32
Code Rate	1/2, 2/3, 3/4, 5/6, 7/8

Video, Audio Decoding

Video Decode	ISO/IEC13818-2 MPEG2 compatible
Video Resolution	720 x 576 (PAL) or 720 x 480 (NTSC)
Video Code Rate	max. 15M bits/s
Teletext support	DVB-TXTETSI/EN300472
Audio Decode	ISO 11172-3
Audio Track	stereo, left ch, right ch
Audio Sample Rate	32, 44.1, 48kHz

HDMI™ Interface

Compliance	HDMI™ 1.1 standard
HD Video Mode	480p, 576p

DVB® is a registered trademark of the DVB Project.

Use this device with original accessories only. Velleman nv cannot be held responsible in the event of damage or injury resulted from (incorrect) use of this device. For more info concerning this product, please visit our website www.velleman.eu. The information in this manual is subject to change without prior notice.

Documents / Resources



[velleman DVB-T Receiver](#) [pdf] User Manual
DVB-T Receiver, DVB-T, Receiver, DVB-T Receiver