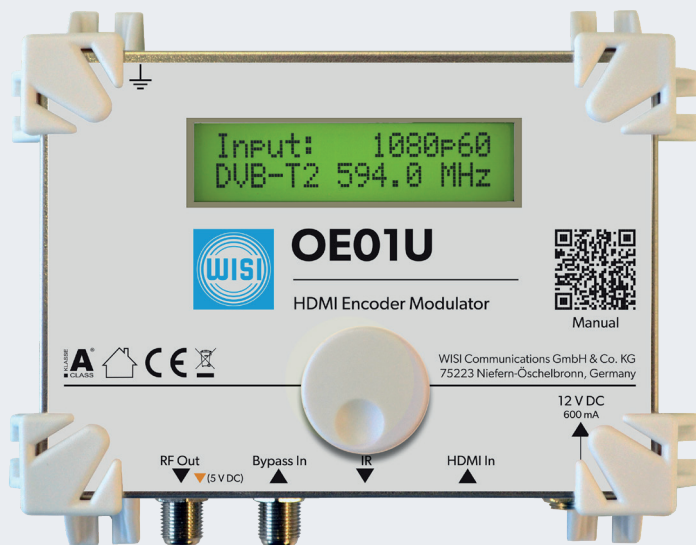




Instruction manual

OE01U

HDMI Encoder Modulator



Connecting technology,
connecting you.

wisigroup.com

Stay up to date



For more information on your device, visit our support-website:
www.wisiconnect.tv

After logging in/registering, you will have access to a variety of interesting information and features, such as release notes or installation examples.

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Important information

1 About this document



If the warnings, notes and instructions in this document are not followed, WISL does not assume any warranty or liability for safe operation and function of this device.

If not indicated otherwise, German is the original language. Other languages are translations of the original language.

1.1 Structure of warnings

The warnings indicate the possible risk of personal injury and machinery damage.

Warnings are formatted as follows:



SIGNAL WORD

Type and source of danger

Consequences of non-compliance

1. Measures to avoid

Four levels are differentiated with the signal word:

DANGER

Immediate serious injury or death

WARNING

Possible serious injuries or death

CAUTION

Minor Injuries

ATTENTION

Comprehensive property damage

1.2 Structure of action steps

Instructions for use can begin with an introductory text describing the following objectives. Then follow the action steps, which always start with a numbering.

Be followed step by step. Safe operation of the device can only be guaranteed if all action steps are carried out.

1. This is an example of the first step.
2. This is an example of the second step.

1.3 Other symbols



Notes on damage to property and economic use are listed behind this symbol.



CE label



According to EU Directive 2012/19/EU (WEEE), the device must be disposed of properly.



Screening factor



Indoor use only

2 Safety instructions

2.1 Intended use

This device converts a local HDMI signal into an RF signal for the distribution over a coaxial cable.

2.2 Improper use

Any other use will result in the loss of warranty or guarantee.

WISI is not liable for any damages resulting from this. The user bears the sole risk.

2.3 Installation location

- The device may only be installed and put into operation in a dry room.
- The device must not be exposed to splash water, liquids, high humidity or salty air.
- Do not place any liquids on the device.
- Mount exclusively on non-combustible material/surface.
- Do not mount the device on or near flammable materials.

Product description

3 Scope of delivery

The following items are included in the scope of delivery (variations are possible due to country-specific regulations and import requirements):

- OE01U HDMI Encoder Modulator 77154**
 - HDMI Encoder Modulator
 - Power supply

4 Technical data

HDMI Input

Video resolution	480i up to 1080p
Video encoding	H264/AVC / MPEG-2
Audio encoding	MPEG1 Layer II / AAC
Connector type	HDMI Type A

RF Input

Frequency	5...1218 MHz
Loss to RF output	2 dB

RF Output (=RF Input signal + HDMI modulated transponder)

Modulated channel frequency	174...1000 MHz
Output level	OFF/50...95 dB μ V
MER	typ. 38 dB

Output settings ISDB-T

Bitrate	2...23 Mbps
Channel bandwidth	6, 7 or 8 MHz
Constellation	COFDM (QPSK/16QAM/64QAM)
Other settings	Code rate / Guard Interval / FFT Mode

Output settings DVB-T

Bitrate	2...31.5 Mbps
Channel bandwidth	6, 7 or 8 MHz
Constellation	COFDM (QPSK/16QAM/64QAM)
Other settings	Code rate / Guard Interval / FFT Mode

Output settings DVB-T2

Bitrate	2...40 Mbps
Channel bandwidth	6, 7 or 8 MHz
Constellation	QPSK/16QAM/64QAM/256QAM
Other settings	Code rate / Guard Interval / FFT Mode

Output settings DVB-C

Bitrate	2...50.5 Mbps
Channel bandwidth	7 or 8 MHz
Constellation	16QAM/32QAM/64QAM/128QAM/256QAM
Other settings	Code rate / Guard Interval / FFT Mode

Output settings ATSC-T

Bitrate	2...19 Mbps
Channel bandwidth	6 MHz
Constellation	8VSB
Other settings	Code rate / Guard Interval / FFT Mode

Output settings ATSC-C

Bitrate	2...26.5 Mbps
Channel bandwidth	6 MHz
Constellation	64QAM
Other settings	Code rate / Guard Interval / FFT Mode

Output settings DTMB

Bitrate	2...32 Mbps
Channel bandwidth	6 or 8 MHz
Constellation	4QAM/QAM-4NR/16QAM/32QAM/64QAM
Other settings	Interleave / Code rate / FFT Mode / Sync frame / PN phase

Configuration

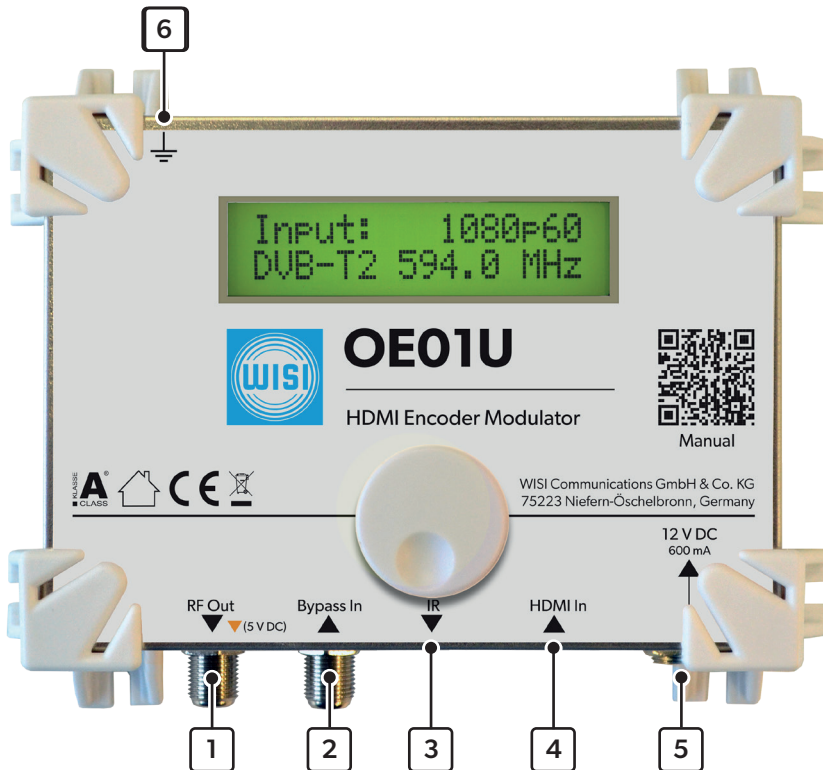
Basic configuration	Country Output Type Output Frequency Output Level Channel Name
Advanced configuration	RF Video & Audio SID PMT, VPID, APID NIT, ONID PDS TS ID

General data

Supply voltage	12 VDC
Jack	Ø 2.1 mm
Power consumption	5W (6W max.)
Dimensions (W x H x D)	155 x 120 x 60 mm
Weight	0.6 kg
Accessories	12 V power adapter

Function

5 Overview



- 1 **RF Out**
RF-Output / DC Out 5V
- 2 **Bypass In**
Feed-in of existing services
- 3 **IR**
Infrared transmitter (IR link)
- 4 **HDMI In**
Connection HDMI source
- 5 **12 V DC, 600 mA**
Connection power supply
- 6 
Grounding or potential equalization

Installation

6 Mounting

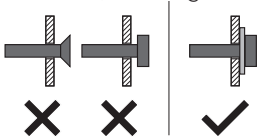


During installation, the device must be protected from dust.

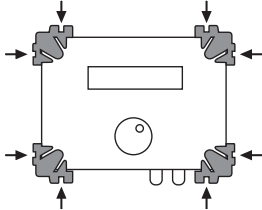
The device can be mounted to a wall.

Prerequisites:

- ✓ 4x screws (and fitting dowels, depending on the surface) for wall mounting - not included.



3. Use the mounting points on the corners of the device.



7 Connecting the device

7.1 Establishing potential equalisation

1. Connect the unit to a potential equalisation system in accordance with the locally applicable electrical standards. For this purpose, the position marked with  must be used.

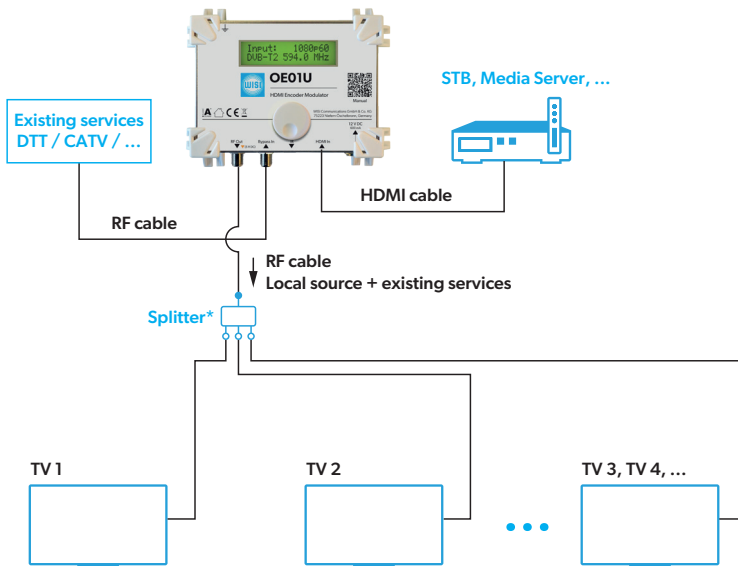
7.2 Connecting the device to the mains

1. Compare the mains voltage with the voltage information on the device.
If the information does not match, the device must not be plugged in.
2. Connect the included power supply.

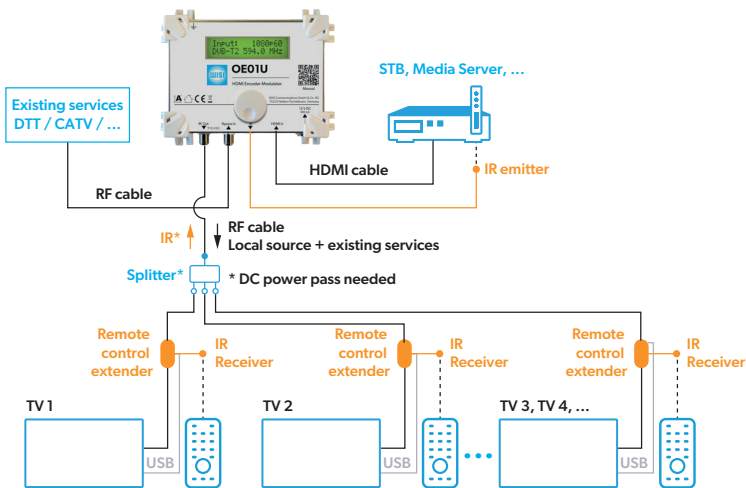


Never pull the cable.

7.3 Connecting the inputs and outputs



7.4 Connecting the inputs and outputs with IR-Link (optional)



When combining 3 or more IR KITs, make sure to power the IR KIT using the USB cable.

8 Setup the device

8.1 Control device

**Menu:**

Push and hold button for 2 s.

Confirm selection:

Push button.

**Scrolling:**

Turn button left or right.

8.2 User interface

Before entering the menu, a start screen is displayed with the most important information.



The first row shows whether an HDMI signal is being received and the resolution of this signal.

The second row shows the output type and output frequency.

8.3 Basic configuration

In most cases, the basic configuration is sufficient to configure and use the device. Only in special cases where detailed settings need to be made is it necessary to start the advanced configuration.



Some steps influence subsequent steps (e.g. the selection under Country overwrites the subsequent Output Type. Therefore, we recommend following the menu of the basic configuration step by step.

Example: If you have set the output type to ATSC-T and then set the setting under Country to France, ATSC-T will be set to DVB-T, as ATSC is not supported in France.

1. Push and hold button for 2 seconds.
The basic configuration starts.
2. Use **Save & Exit** for saving and activating the new settings.

Country

Setting the device and TVs to the correct country improves performance, such as the order or sequence of channels (LCN).

If the country setting of the device and the TV do not match, LCN will not work properly.

Choosing the correct country will also help to make the settings easier! The country will preconfigure the necessary advanced settings like channel/frequency plan, LCN, ONID, SID and TSID.



When „Other“ is displayed, some settings were modified by the user.

Output Type

Defines the standard of the modulated output signal. Depending on the product reference, this can be DVB-T, DVB-C, DTMB, ATSC-T, ATSC-C or ISDB-T.



The range of possible standard depends on the selected country.

Channel

Determines on which output frequency the modulated signal will be transmitted.

If a channel plan exists for your country and the selected output type, the device will allow to select the channel. If not, a frequency must be set.

When output type is set to DVB-C, the frequency will be displayed.



The channel plan depends on the country and the output type.

CH Name	The name which will be displayed on the TV screen.  Max. 15 characters , small and capital letters, numbers, „-“, „_“, „space“ are allowed. Scroll till underlined arrow to confirm.
Level	Setting the output level of the modulated RF signal. The output level can be set between 50 and 95 dBµV.  dBm can also be used („7.4 Advanced configuration“ on page 18)
IR ENABLE	Activate/deactivate IR link.
Advanced	See „7.4 Advanced configuration“ on page 18
CANCEL & EXIT	Exit WITHOUT saving. The changes will NOT be stored.
Save & Exit	Exit WITH saving. The changes will be stored.

8.4 Advanced configuration

For most installations, the advanced configuration is not needed. Please try the basic configuration first.



The following table shows all possible options. Depending on the chosen Output Type/Standard, only certain options will be displayed.

1. Push and hold button for 2 seconds.
The basic configuration starts.
2. Navigate to **Advanced** by turning the button left or right.
3. Push the button.
The advanced configuration starts.
4. Use **Save & Exit** for storing the changes.

Menu read out:	Parameter	Range (can depend on product reference and other settings)
RF Output	Output Type	DVB-T, DVB-T2, DVB-C, ISDB-T, ATSC-T, ATSC-C, DTMB
	Frequency	100 - 1000 MHz
	Bandwidth	6, 7, 8 MHz
	Symbol Rate	5000 - 7000
	Constellation	QPSK, QAM-4NR, QAM-16, QAM-32, QAM-64, QAM-128, QAM-256, 8VSB
	Guard Intervall	1/4, 1/8, 1/16, 1/32 For DVB-T2: 1/3, 2/5, 1/2, 3/5, 2/3, 3/4, 4/5, 5/6
	Code Rate	1/2, 2/3, 3/4, 5/6, 7/8
	FFT Mode	2k, 8k
	Carrier Type	Multi-carrier, single-carrier
	Interleave	None, 240, 720
	Sync Frame	420, 595, 945
	PN Phase	Constant, Variable
	< Back	
Video	Encoding Type	H264, MPEG-2
	Bit Rate	Starting from 2000 Kbps, but limited by MUX settings*
	GOP Size	1 to 60
	< Back	
Audio	Encoding Type	AAC, MPEG-2
	< Back	

Menu read out:	Parameter	Range (can depend on product reference and other settings)
Stream	TSID	0 to 65535
	ONID	0 to 65535
	SID	0 to 65535
	Prvt Data Spec	0 to 4294967295
	LCN	0 to 999
	Maj. CH Number	0 to 999
	Min. CH Number	0 to 999
	Source ID	0 to 65535
	RM Ctrl Key ID	0 to 99
	Service Number	0 to 7
	NID	0 to 65535
	Network Name	Max. 15 characters , small and capital letters, numbers, „-“, „_“, „space“ are allowed. Scroll till underlined arrow to confirm.
	Network version	0 to 31
	PCR PID	32 - 8190
	PMT PID	32 to 8190
	Video PID	32 to 8190
	Audio PID	32 to 8190
	< Back	
Preferences	Level Unit	dBm, dBµV
	< Back	
Info	SW Version	
	FW Version	
	HW Version	
	< Back	

Menu read out:	Parameter	Range (can depend on product reference and other settings)
Reset	Factory reset	No or Yes
	Reboot	
Back	Save & Exit	

- * If you are not able to reach for instance 18.000kbps, you will need to increase the bandwidth by changing the “RF Output” settings (set constellation to 64QAM, guard interval to 1/32 and/or code rate to 7/8).



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