

# HTL-ST2

ClassA  
DVB-S/S2 to DVB-T signal  
dual transmodulator

Unit which receives the DVB-S/S2 signal and re-modulates it to DVB-T signal.  
Grid control and configuration with large numbers of channels without the need to retune TV sets.



**Solution for Hospitality**



**Configuration assistant "Wizard"**



**Remote control of the headend**



**Separation of audios**



**Control multiswitch**



**2 DVB-S/S2 signal inputs**



**Configuration through web interface**



**2 DVB-T signal outputs**



Product compatible with:  
**Ikusi Headend Discovery**

## Main characteristics

<b>Model</b>		<b>HTL-ST2</b>	
<b>Ref.</b>		<b>3858</b>	
<b>Input</b>			
Standard		EN 300 421 DVB-S EN 302 307 DVB-S2	
<b>N° of inputs</b>		<b>2 polarities or 1 polarity + Looptthrough</b>	
Frequency band	MHz	950 - 2150	
Fitted with DiSEqC (v. 1.08)		No limit on number of polarities. Can use more satellites and remotely change the required channels	
Max n° of decrypted programmes		Variable (depending on CAM)	
Input level	dBm	-65...-25 (DVB-S) -70...-25 (DVB-S2)	
Input loop gain	dB	0 (±1)	
AFC pull-in range	MHz	±5	
Input Symbol rate	DVB-S	MS/s	2 ... 45
	DVB-S2		8 ... 45
<b>TS Processing</b>			
PSI/SI adaptation		Generating and inserting tables PAT, PMT, CAT, SDT, NIT, TOT and BAT	
NIT adaptation		Yes (generated automatically)	
SDT adaptation		Yes (configurable name input)	
TS monitoring		Yes	
Processing LCN, TDT, TOT		Yes	
<b>Output</b>			
<b>N° of outputs</b>		<b>2</b>	
Frequency band	MHz	51 - 858	
Operation modes		2K ; 8K	
MER	dB	> 40	
Output level	dBµV	80	
Adjustable output level	dB	-15	
Modulation formats		QPSK ; 16QAM ; 64QAM	
Code ratio		1/2 , 2/3 , 3/4 , 5/6 , 7/8	
Guard interval		1/4 , 1/8 , 1/16 , 1/32	
Output bandwidth	MHz	6 / 7 / 8	
Output loop step attenuation	dB	1.1	
Frequency stability	ppm	≤ ±30	
<b>General</b>			
Configuration		PC. Web, Ikusi Headend Discovery	
Firmware upgrade		Web interface	
Supply voltage	VDC	+12	
Consumption	A	1.6 (no CAM)	
Operation temperature	°C	0 ... +45	
Common interface		1 slot (EN50221)	
IKUNET Bus Connector		2x RJ45	
Dimensions	mm	230 x 195 x 32	

☐ The **HTL-ST2** transmodulator is a product which is designed and manufactured with Ikusi's own technology, given the increasing need for complex channel grids in hotels, with multiple inputs which increase the density of channels handled by each module.

- Places the selected services of two DVB-S/S2 satellite transponders of the FI-Sat band in two DVB-T channels of the 51-858 MHz band. The module input connection is software configurable ("loop" or "dual input") and is equipped with DiSEqC function, meaning each module can be tuned at two satellite frequencies with different polarities.

Each transmodulator includes a Web server.

- The **HTL-ST2** headend can be used to create channel grids and manage them remotely, providing a fully customisable grid without the need for on-site intervention.

Used to manage multiple headends from a single point for efficient maintenance.

- **Pre-reserve channels:** Envisages a future increase in channels, meaning the television sets have them in their lists and do not need to be retuned in the future.

- **Separation audios:** Sends a video service with several different languages or audios using the same space as for an RF channel. The television present "a programme" for each language, avoiding the need for the user to choose "language" with the remote control.

- **Independent output channels:** The two CO-FDM channels can be distributed in any part of the 51-858 MHz band.

- Remote or local web interface connection.

The HTL-ST2 transmodulator is compatible with the application for PC:

"IKUSI HEADEND DISCOVERY" (can be downloaded from [www.ikusi.tv](http://www.ikusi.tv)).

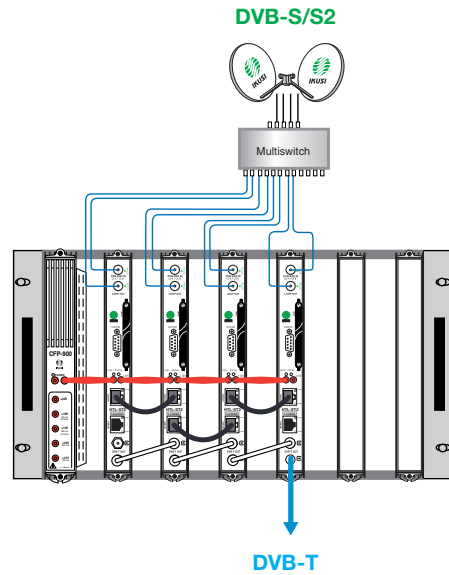
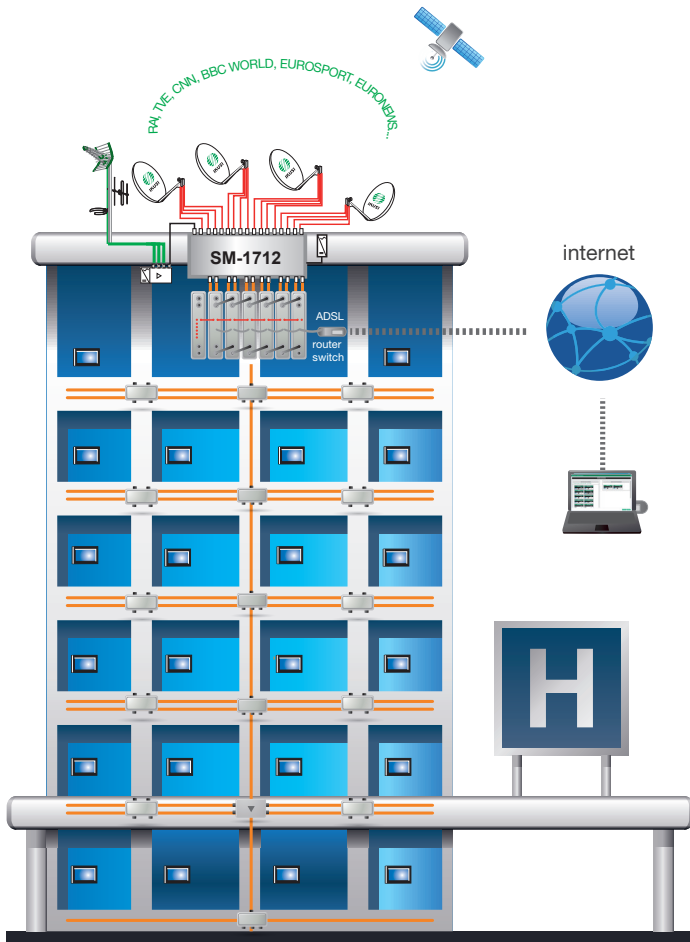
This tool allows the installer to detect the headend modules without having to modify the PC network card.

- **The step-by-step Wizard** can be used to quickly and straightforwardly configure the headend.

Once the polarity and satellite input frequency are set, the wizard shows the services available and proposes an output frequencies plan. To configure the required services, simply click on them to place them at the output.

- **Manual configuration.** Any parameter can be modified simply from the web interface using the "drag and drop" option.

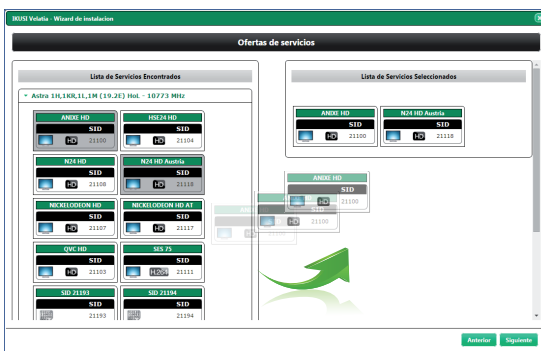
## Examples of application



HTL-ST2 headend for 8 digital satellite TV transponders. The installation contains: 4 HTL-ST2 and 1 CFP-900 feeder in a SMR-601 rack mount.

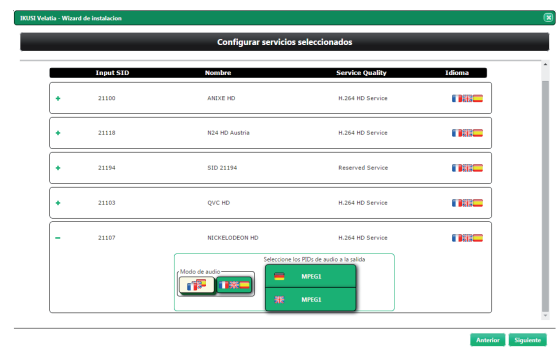
### Handling headend services

Manage all services available in the different headend inputs, distributing them towards the outputs, by simply dragging each service from the input window to the output window.



### Audio separation

Send a video service with several different languages or audios using the same space as for an RF channel. The television set generates "a programme" for each language, avoiding the need for the user to choose "language" with the remote control.



### HEADQUARTERS

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