

12	226.5	N/A	N/A	12	226.5	12	226.5
21	474	21	474	21	474	21	474
22	482	22	482	22	482	22	482
23	490	23	490	23	490	23	490
24	498	24	498	24	498	24	498
25	506	25	506	25	506	25	506
26	514	26	514	26	514	26	514
27	522	27	522	27	522	27	522
28	530	28	530	28	530	28	530
29	538	29	538	29	538	29	538
30	546	30	546	30	546	30	546
31	554	31	554	31	554	31	554
32	562	32	562	32	562	32	562
33	570	33	570	33	570	33	570
34	578	34	578	34	578	34	578
35	586	35	586	35	586	35	586
36	594	36	594	36	594	36	594
37	602	37	602	37	602	37	602
38	610	38	610	38	610	38	610
39	618	39	618	39	618	39	618
40	626	40	626	40	626	40	626
41	634	41	634	41	634	41	634
42	642	42	642	42	642	42	642
43	650	43	650	43	650	43	650
44	658	44	658	44	658	44	658
45	666	45	666	45	666	45	666
46	674	46	674	46	674	46	674
47	682	47	682	47	682	47	682
48	690	48	690	48	690	48	690
49	698	49	698	49	698	49	698

50	706	50	706	50	706	50	706
51	714	51	714	51	714	51	714
52	722	52	722	52	722	52	722
53	730	53	730	53	730	53	730
54	738	54	738	54	738	54	738
55	746	55	746	55	746	55	746
56	754	56	754	56	754	56	754
57	762	57	762	57	762	57	762
58	770	58	770	58	770	58	770
59	778	59	778	59	778	59	778
60	786	60	786	60	786	60	786
61	794	61	794	61	794	61	794
62	802	62	802	62	802	62	802
63	810	63	810	63	810	63	810
64	818	64	818	64	818	64	818
65	826	65	826	65	826	65	826
66	834	66	834	66	834	66	834
67	842	67	842	67	842	67	842
68	850	68	850	68	850	68	850
69	858	69	858	69	858	69	858
70	866			70	866	70	866

Sweden		Italy		France		Denmark	
RF Ch.	Center Frequency (MHZ)	RF Ch.	Center Frequency (MHZ)	RF Ch.	Center Frequency (MHZ)	RF Ch.	Center Frequency (MHZ)
5	177.5	5	177.5	5	177.5	5	177.5
6	184.5	6	184.5	6	184.5	6	184.5
7	191.5	7	191.5	7	191.5	7	191.5
8	198.5	8	198.5	8	198.5	8	198.5

9	205.5	9	205.5	9	205.5	9	205.5
10	212.5	10	212.5	10	212.5	10	212.5
11	219.5	11	219.5	11	219.5	11	219.5
12	226.5	12	226.5	12	226.5	12	226.5
21	474	21	474	21	474	21	474
22	482	22	482	22	482	22	482
23	490	23	490	23	490	23	490
24	498	24	498	24	498	24	498
25	506	25	506	25	506	25	506
26	514	26	514	26	514	26	514
27	522	27	522	27	522	27	522
28	530	28	530	28	530	28	530
29	538	29	538	29	538	29	538
30	546	30	546	30	546	30	546
31	554	31	554	31	554	31	554
32	562	32	562	32	562	32	562
33	570	33	570	33	570	33	570
34	578	34	578	34	578	34	578
35	586	35	586	35	586	35	586
36	594	36	594	36	594	36	594
37	602	37	602	37	602	37	602
38	610	38	610	38	610	38	610
39	618	39	618	39	618	39	618
40	626	40	626	40	626	40	626
41	634	41	634	41	634	41	634
42	642	42	642	42	642	42	642
43	650	43	650	43	650	43	650
44	658	44	658	44	658	44	658
45	666	45	666	45	666	45	666
46	674	46	674	46	674	46	674

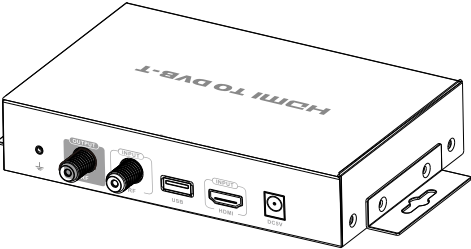
47	682	47	682	47	682	47	682
48	690	48	690	48	690	48	690
49	698	49	698	49	698	49	698
50	706	50	706	50	706	50	706
51	714	51	714	51	714	51	714
52	722	52	722	52	722	52	722
53	730	53	730	53	730	53	730
54	738	54	738	54	738	54	738
55	746	55	746	55	746	55	746
56	754	56	754	56	754	56	754
57	762	57	762	57	762	57	762
58	770	58	770	58	770	58	770
59	778	59	778	59	778	59	778
60	786	60	786	60	786	60	786
61	794	61	794	61	794	61	794
62	802	62	802	62	802	62	802
63	810	63	810	63	810	63	810
64	818	64	818	64	818	64	818
65	826	65	826	65	826	65	826
66	834	66	834	66	834	66	834
67	842	67	842	67	842	67	842
68	850	68	850	68	850	68	850
69	858	69	858	69	858	69	858
70	866	70	866			70	866

Disclaimer

The product name and brand name may be registered trademark of related manufacturers.TM and ® may be omitted on the user manual. The pictures on the user manual are just for reference,and there may be some slight difference with the real products.
We reserve the rights to make changes without further notice to a product or system described herein to improve reliability, function or design.

HDMI to DVB-T Converter

User Manual



● Please read below safety instructions carefully before installation and operation:

- . Please pay attention to all the warnings and hints on this device.
- . Do not expose this unit to rain, moisture and liquid.
- . Do not put any stuff into the device.
- . Do not repair or open this device without professional people's guidance.
- . Make sure good ventilation openings to avoid product overheating damage.
- . Shut off power and make sure environment is safe before installation.
- . Do not plug-in/out the connected cables when it is in using.
- . Make sure the specification matched if using 3rd party DC adapters.

● Product Introduce

This is an HDMI to DVB-T Converter, perfect solution to distribute HDMI signal to DVB-T1 standard digital cable television via coaxial cables. Output can be set to any channel number and injects directly to your CATV splitter to distribute to all your TVs, coexisting with all your current regular channels. Multiple this HDMI to DVB-T Converter can be installed to distribute as many channels as you need. It's for monitor systems, outdoor large screen display, shopping mall advertisement, media education fields etc.

● Package Contents



Converterx1pcs



Power adapterx1pcs



User manualx1pcs

● Installation

Installation

1. Source devices (Device with HDMI Port, like PS3, Set-top box, DVD and PC etc.)
2. Display devices (TV with build-in DVB-T1 , or standard DVB-T1 Set-top box)
3. Cables (26AWG standard HDMI cable, 75-5/75Ω standard Coaxial Cable)
- 4.CATV Splitter if needed

● Features

1. Support DVB-T1 digital high definition RF signal output
2. HDMI input signal resolution up to full HD 1080p@60Hz
3. Distribute one source to multiple displays with one modulator via CATV splitter
4. Support multiple modulators be installed to distribute as many channels you need
5. Firmware upgradeable via USB port
6. "Service Name" , " Channel" and "country" can be revised by buttons
7. Strong anti-noise and anti-interference ability

● Panel description

Front Panel



- ① LCM Screen
- ② Navigatish button
- ③ Menu button

Back Panel



- ① GND
- ② RF Output
- ③ RF Input
- ④ USB port : firmware upgrade only
- ⑤ HDMI Input
- ⑥ Power port: (DC5V)

● Menu function description

Menu options

Press the "MENU" button to enter the menu, all menu options are as follows,

- 1、Stream
 - 1) Service Name
- 2、Modulator
 - 1) Country 2) Channel
- 3、System
 - 1) Version 2) Reset

Press the "OK" of Navigation button, to enter the needed option.

OSD SET steps:

- 1.Set "Service Name"
 - (1) Press "MENU" button
 - (2) Press "OK" button
 - (3) Choose "Stream" via "▲" "▼" buttons
 - (4) Choose "Service Name" via "▲" "▼" buttons
 - (5) Press "OK" button
 - (6) Edit letters as you need via "▲" "▼" "◀" "▶" buttons
 - (7) Confirm and press "Ok" button

- 2.Set "Country"
 - (1) Press "MENU" button
 - (2) Press "OK" button
 - (3) Choose "Modulator" via "▲" "▼" buttons
 - (4) Choose "Country" via "▲" "▼" buttons
 - (5) Choose your Contry via "▲" "▼" buttons
 - (6) Confirm and press "Ok" button

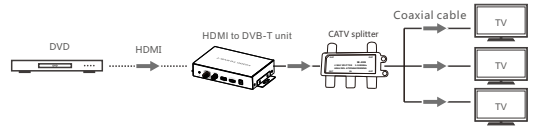
- 3.Set "Channel"
 - (1) Press "MENU" button
 - (2) Press "OK" button
 - (3) Choose "Modulator" via "▲" "▼" buttons
 - (4) Choose "Channel" via "▲" "▼" buttons
 - (5) Set channel as your need via "▲" "▼" buttons
 - (6) Confirm and press "Ok" button

● Connection and operation

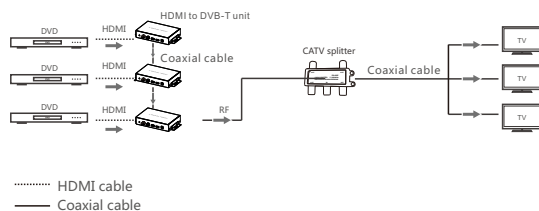
1. Point to point



2. Point to multi-point



3. Multi-point to multi-point



Connection instructions :

- 1) Step 1- Connect HDMI source device with the HDMI to DVB-T Converter by HDMI cables
- 2) Step 2- Connect the RF output of this HDMI to DVB-T Converter with DVB-T1 standard digital CATV or set-top box via coaxial cable
- 3) Step 3- Connect with power supply, choose country and channel, this device works

Note:

If the length of coaxial cable is less than 100 meters, recommend to add an attenuator(20dB at least) with this coverter unit to decay the signal

● FAQ

Q : Image is not normal after setting channel (splash screen, disturbance, mosaic etc)?
A : Restart , and make sure coaxial cable connection is stable, or try other channel for testing

Q: TV displays "NO SIGNAL" on screen?

A: (1) Check if there an HDMI signal input.
(2) If the length of coaxial cable is less than 100 meters, please add an attenuator(20dB at least) in series to decay the signal

● Specification

Item	Specification
HDMI Signal	HDMI1.3,fully compatible HDCP
HDMI DDC Signal	5Vp-p (TTL)
HDMI TMDS Signal	0.5~1.5Vp-p (TMDS)
Input HDMI Resolution Supported	480i@60Hz, 480p@60Hz, 576i@50Hz, 576p@50Hz, 720p@50/60Hz, 1080i@50/60Hz, 1080p@50/60Hz ;
HDMI graphics resolution	1280x720@60Hz,1920x1080@60Hz
Video Encoding	H.264
Audio Encoding	MPEG2

Coaxial output Standard	DVB-T1
Coaxial Cable required	RG6, RG7, RG11
Frequency	100 to 1000MHz
Effective Bit Ratio	Max:31.6M bits
Insert Loss	<2dBm
RF output Wattage(TX)	-7dBm~-3dBm
RF Interface	British system (75Ω type F)
Delay Time	100-150ms (Depends on the decoding ability of receivers)
Audio Format	Stereo PMC (44.1kbps, 48kbps)
Power	DC5V/1A
Product Consumption	3.5W
Working Temperature	0℃ - 50℃
Stock Temperature	-10 ℃ - 70 ℃
Relative Humidity	0% - 90%
Product Dimension	158×115×33mm

Appendix 1:RF Channel vs Center Frequency (MHz) Map

Germany		England		Spain		Finland	
RF Ch.	Center Frequency (MHZ)	RF Ch.	Center Frequency (MHZ)	RF Ch.	Center Frequency (MHZ)	RF Ch.	Center Frequency (MHZ)
5	177.5	N/A	N/A	5	177.5	5	177.5
6	184.5	N/A	N/A	6	184.5	6	184.5
7	191.5	N/A	N/A	7	191.5	7	191.5
8	198.5	N/A	N/A	8	198.5	8	198.5
9	205.5	N/A	N/A	9	205.5	9	205.5
10	212.5	N/A	N/A	10	212.5	10	212.5
11	219.5	N/A	N/A	11	219.5	11	219.5