

# HP3556HS HD Encoder Modulator

## --- Home Version

A device that allows audio and video signal input in TV distributions with applications in home entertainment, Digital Signage for hotels, shops, restaurants etc...



**Support CC (Closed Caption) /Teletext**

**Support Audio delay function**

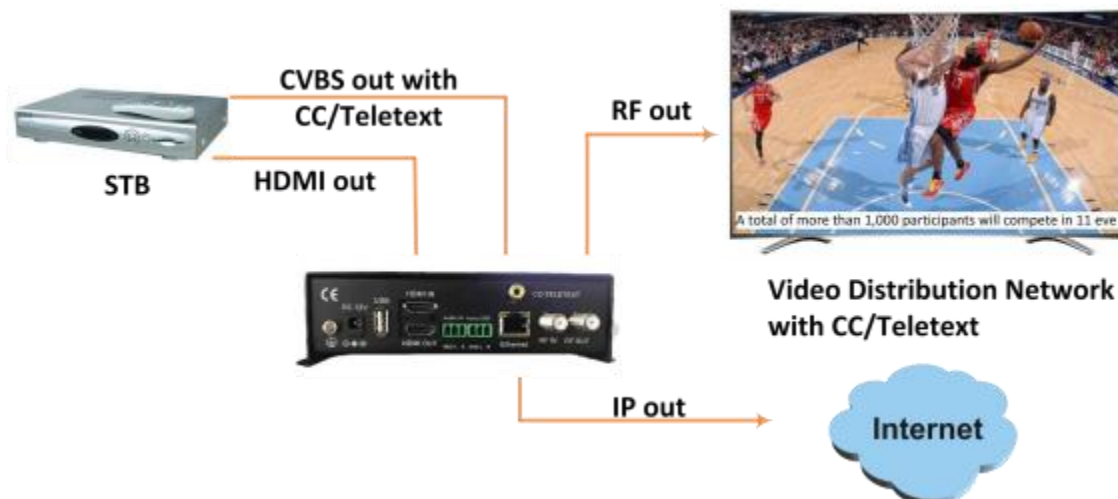


**Teletext Standard as per EN300706 & EN300472**

HP3556HS Encoder Modulator can support

Teletext function to pushing text information such as domestic news, international news, sports news, weather forecasts, TV program forecasts information and subtitle etc.

## CC/Teletext Example:



## Key Features

- HDMI input with H.265/h.264 video
- DVB-C/DVB-T/**ISDB-T/ATSC** RF OUT for Option
- IP output over UDP, RTP/RTSP
- Support AC3 Pass-through
- **Support OSD (logo/QR Code/Caption) insertion** (optional)
- Support CC (Closed Caption) /Teletext
- Support Audio delay function
- LED Screen for easy management

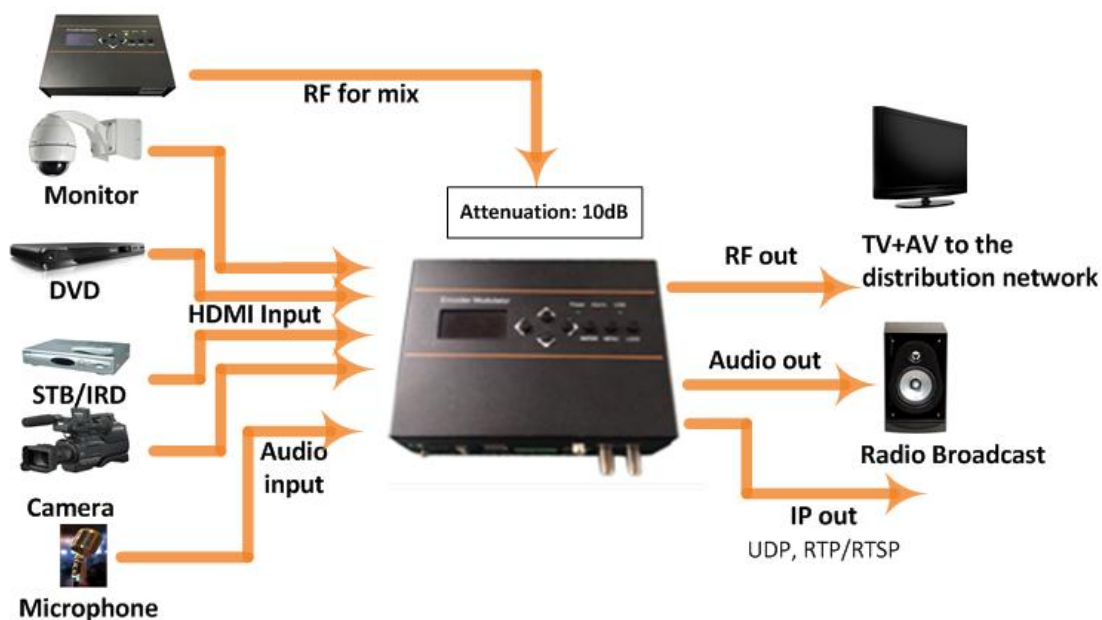
## General Description

CATCAST HP3556HS HD encoder & modulator is designed based on consumer electronics which allow HDMI signal input in TV distributions with applications in home entertainment, surveillance control, hotel Digital Signage, etc.

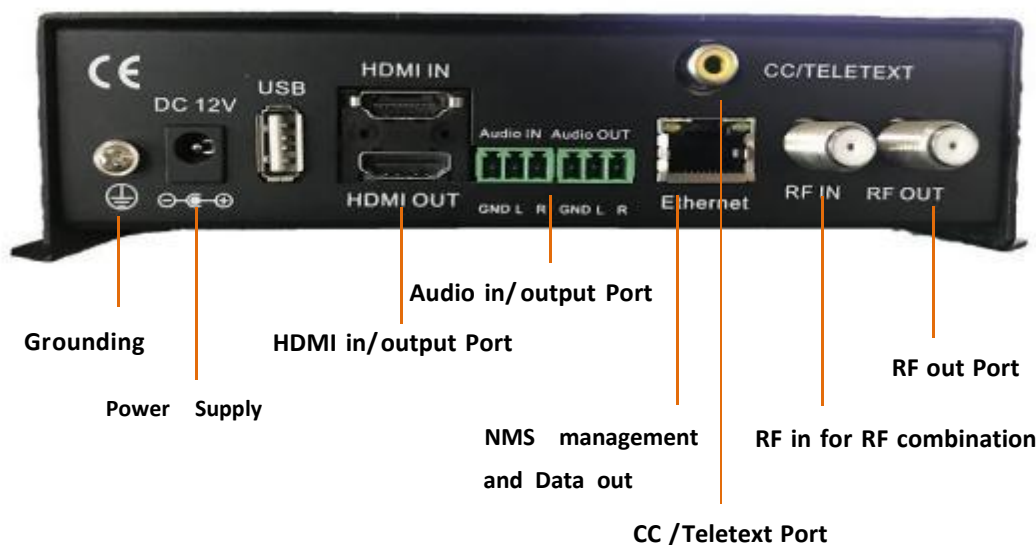
It is an all-in-one device integrating encoding and modulating to convert audio/video signals into DVB-C/ DVB-T/ ISDB-T/ATSC RF out.

The signals source could be from STB, satellite receiver, closed-circuit television cameras and etc. Its output signal is to be received by TVs or STBs etc.

## System Connection



# Appearance and Description



## Technical Specifications

HDMI Encoding Section		
<b>Video</b>	Encoding	HEVC/ H.265 , MPEG 4 AVC/H.264
	Interface	HDMI*1. HDMI loop out*1
	Resolution	1920*1080_60P, 1920*1080_50P; 1920*1080_59.94P, 1280*720_60p, 1280*720_59.94 1280*720_50P
	Chroma	4:2:0
	Bitrate	1Mbps~15Mbps

<b>Audio</b>	Rate Control	CBR/VBR
	GOP Structure	IP
	Encoding Format	MPEG- 1 Layer 2, LC-AAC, HE-AAC, HE-AAC V2; AC3 Pass-through
	Sample rate	32KHz,44. 1KHz,48KHz
	Bit-rate	48~384Kbps

IP output		
IP out over UDP ( Unicast/multicast), RTP/RTSP, ( RJ45, 100M)		
DVB-C Modulator Section		
Standard	J.83A ( DVB-C), J.83B	
MER	≥40dB	
RF frequency	100- 1000MHz, 1KHz step	
RF output level	-20~ -5dBm, 1dB step	
Symbol rate	5.000~7.000Mmps adjustable	
	J.83A	J.83B
Constellation	16/32/64/ 128/ 256 QAM	64/ 256 QAM
Bandwidth	8M	6M
DVB-T Modulator Section		
Standard	DVB-T COFDM	

Bandwidth	6M, 7M, 8M
Constellation	QPSK, 16QAM, 64QAM
Code rate	1/2, 2/3, 3/4, 5/6, 7/8
Guard Interval	1/32, 1/ 16, 1/8, 1/4
Transmission Mode:	2K, 8K
MER	≥35dB
RF frequency	100-900MHz, 1KHz step
RF output level	-63~ - 16dBm, 1dB step

ISDB-T Modulator Section (Optional)	
Standard	ARIB STD-B31
Constellation	QPSK, 16QAM, 64QAM
Guard Interval	1/32, 1/ 16, 1/8, 1/4
Transmission Mode	2K, 4K, 8K
Code rate	1/2, 2/3, 3/4, 5/6, 7/8

RF frequency	100~900MHz, 1KHz step
RF output level	-63~ - 16dBm, 1dB step
<b>ATSC Modulator Section (Optional)</b>	
Standard	ATSC A/53
Constellation	8 VSB
RF output level	-63~- 16dBm (44~91 d B $\mu$ V), 1dB step
MER	$\geq$ 35dB
RF frequency	100~900MHz, 1KHz step

RF output level	-63~ - 16dBm, 1dB step
<b>System</b>	
Management	Web- GUI, LED+ Keyboard
Language	English
Upgrade	Web update
<b>General</b>	
Power supply	DC 12V
Dimensions	160*120*52mm
Weight	< 1kg

## Typical Applications

**...for communities of residents**  
an information channel on their television



**...for restaurants**  
information about daily menus ,special deals,etc



**...for hotels**  
meeting rooms,exhibitions,message,etc



**...for hospitals**  
training courses, healthy guide, etc



**...for Public Spaces**  
adversing,user information,news,etc



**...for shopping centres**  
new collections,special deals,etc



**Create your own advertising and information channel  
with HP3556HS Encoder Modulator**