

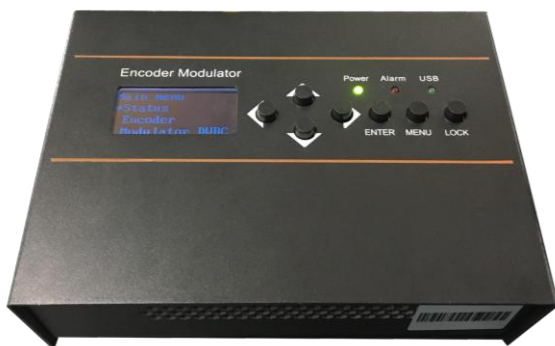


# NDS3556HS HD Encoder Modulator

- HDMI input with H.265/h.264 video, with B frame
- DVB-C/DVB-T/ISDB-T/ATSC RF OUT for Option
- IP output over UDP, RTMP, RTP/RTSP **NEW**
- Support AC3 Pass-through
- Support OSD (logo/QR Code/Caption) insertion **NEW**
- Support CC (Closed Caption)
- Support USB Port for Video Record, Save Playback
- LED Screen for easy management

## --- 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...



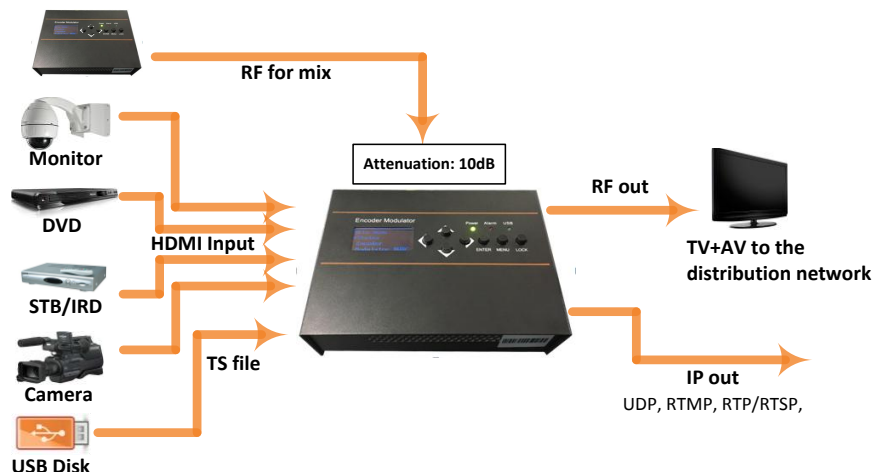
## General Description

DEXIN NDS3556HS 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.

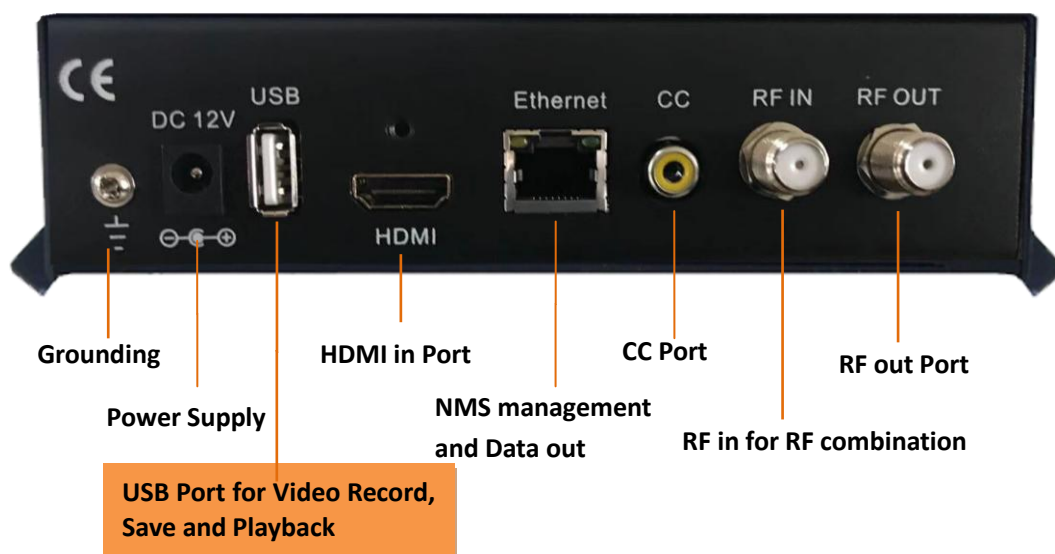
It is an all-in-one device integrating encoding and modulating to convert audio/video signals into DVB-C/DVB-T/ISDB-T/ATSC RF out.

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

Video	Encoding	HEVC/ H.265 , MPEG 4 AVC/H.264
	Interface	HDMI*1
	Resolution	1920*1080_60P, 1920*1080_50P; 1920*1080_59.94P, 1920*1080_59.94i; 1920*1080_60i, 1920*1080_50i; 1280*720_60p, 1280*720_59.94 1280*720_50P

Chroma	4:2:0
Bitrate	1Mbps~15Mbps
Rate Control	CBR/VBR
GOP Structure	IBBBP, IBBP, IP
Encoding Format	MPEG-1 Layer 2, LC-AAC, HE-AAC, HE-AAC V2; AC3 Passthrough
Sample rate	48KHz
Bit-rate	48~384Kbps (MPEG-1 Layer 2& LC-AAC) 24~128 Kbps (HE-AAC) 18~56 Kbps (HE-AAC V2)

### Audio

## IP output

IP out over UDP (Unicast/multicast), RTMP, RTP/RTSP, (RJ45, 100/1000M self-adaption)

## DVB-C Modulator Section

Standard	J.83A (DVB-C), J.83B	
MER	≥35dB	
RF frequency	100-900MHz, 1KHz step	
RF output level	-20~ -5dBm, 1dB step	
Symbol rate	5.000~7.000Msps adjustable	
	J.83A	J.83B
Constellation	16/32/64/128/ 256 QAM	64/ 256 QAM
Bandwidth	8M	6M

## DVB-T Modulator Section (Optional)

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

## ATSC Modulator Section (Optional)

Standard	ATSC A/53
Constellation	8 VSB
RF output level	-63~-16dBm (44~91 dBμV), 1dB step
MER	≥35dB
RF frequency	100~900MHz, 1KHz step
RF output level	-63~ -16dBm, 1dB step

## System

Management	Web-GUI, LED+Keyboard
Language	English
Upgrade	Web update

## General

Power supply	DC 12V
Dimensions	160*120*52mm
Weight	< 1kg

# OSD (Logo/QR Code/Caption) Insertion

## LOGO Insertion


- Support jpg/jpeg/bmp/gif/png file
- Support multi pictures compressed into a zip file and display pictures in a dynamic way
- Custom time table of appear and disappear
- Custom transparency 
- Drag to move to any position 

Transparent background (hollow out) with png/gif type picture




White background with jpg/jpeg/bmp type picture

## Caption Insertion

- Multi languages: Chinese, English, Thai, Arabic, Indian, Korean, Japanese...
- Custom font family/ color/size/weight 
- Custom running speed 
- Custom showing period and text length
- Custom background, transparency or any color
- Custom time table of appear and disappear
- Drag to move to any position

## QR Code Insertion

- Input URL and create immediately
- Support add text at top or bottom
- Custom transparency/ size: 40\*40 -- 400\*400
- Support add logo at the center 
- Custom time table of appear and disappear
- Drag to move to any position

## 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 NDS3556HS Encoder Modulator**