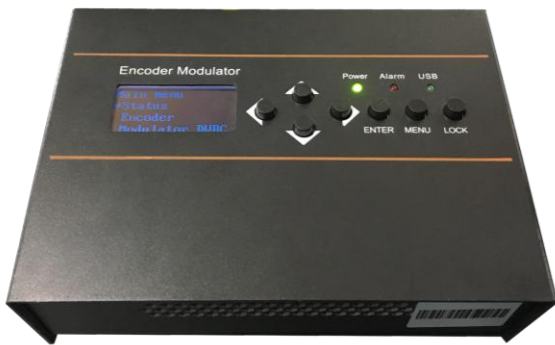## --- Home Version

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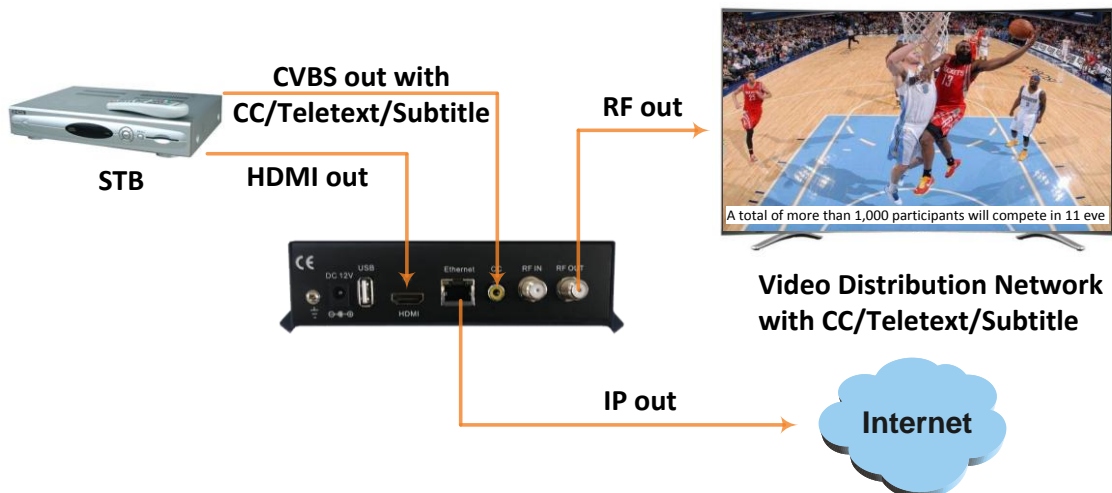
NEW

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

Teletext Standard as per EN300706 & EN300472

This NDS3556HS 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/Subtitle Example:

CVBS out with CC/Teletext/Subtitle

STB

HDMI out

RF out

A total of more than 1,000 participants will compete in 11 eve

Video Distribution Network with CC/Teletext/Subtitle

IP out

Internet

Key Features

- **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**

- **Support AC3 Pass-through**

- **Support OSD (logo/QR Code/Caption) insertion**

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

- **Support USB Port for Video Record, Save Playback**
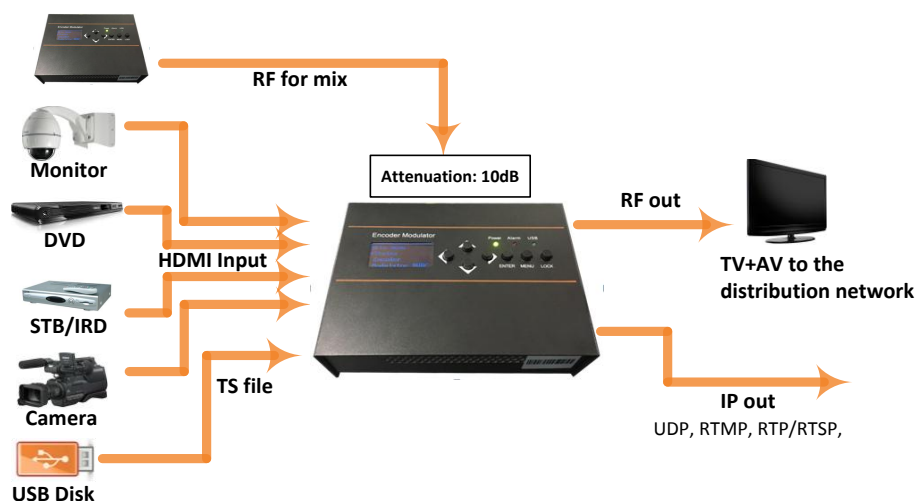
- **LED Screen for easy management**

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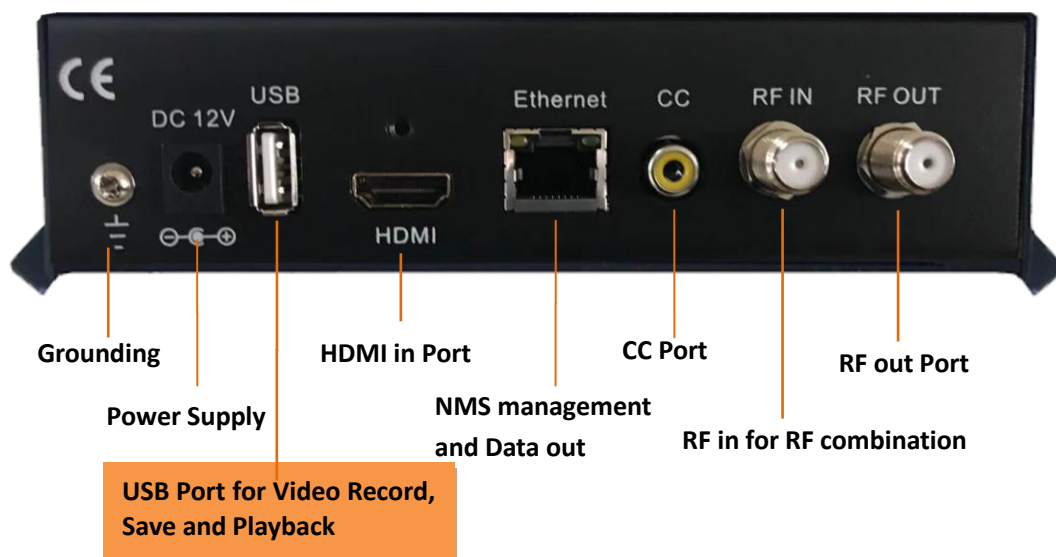
It is an all-in-one device integrating encoding and modulating to convert audio/video signals into DVB-C/DVB-T/ISDB-T/ATSC RF out.

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

Grounding

Power Supply

USB Port for Video Record, Save and Playback

HDMI in Port

NMS management and Data out

CC Port

RF in for RF combination

RF out Port

Technical Specifications

HDMI Encoding Section

Encoding	HEVC/ H.265 , MPEG 4 AVC/H.264	
Interface	HDMI*1	
Video	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	
Audio	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)

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		MER	≥35dB
Guard Interval	1/32, 1/16, 1/8, 1/4		RF frequency	100~900MHz, 1KHz step
Transmission Mode	2K, 4K, 8K		RF output level	-63~ -16dBm, 1dB step
Code rate	1/2, 2/3, 3/4, 5/6, 7/8		**System**	
RF frequency	100~900MHz, 1KHz step		Management	Web-GUI, LED+Keyboard
RF output level	-63~ -16dBm, 1dB step		Language	English
ATSC Modulator Section (Optional)			Upgrade	Web update
Standard	ATSC A/53		**General**	
Constellation	8 VSB		Power supply	DC 12V
RF output level	-63~-16dBm (44~91 dBµV), 1dB step		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 DEXING
- Drag to move to any position

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

DEXING   DEXING

White background with jpg/jpeg/bmp type picture

ABCDEFGHIJKLMNOPQRSTUVWXY

Dexin

Caption Insertion

- Multi languages: Chinese, Enlish, 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 hopitals
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