



NDS3556 SD Encoder Modulator

**CVBS → DVB-T/DVB-C/DTMB/ATSC/ISDB-T
Encoder & Modulator**



--- Home Version



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

General Description

NDS3556 series encoder & modulator is DEXIN's consumer electronics which allow audio/video signal input in TV distributions with applications in home entertainment, surveillance control, hotel Digital Signage, shops etc.

It is an all-in-one device integrating MPEG-2 encoding and modulating to convert audio/video signals into DVB-T/DVB-C/DTMB/ATSC/ISDB-T RF out.

The signals source could be from satellite receivers, closed-circuit television cameras, Blue-ray players, and antenna etc. its output signal is to be received by a DVB-T/DVB-C/DTMB/ATSC/ISDB-T standard TV, DVB-T/DVB-C/DTMB/ATSC/ISDB-T STB etc.



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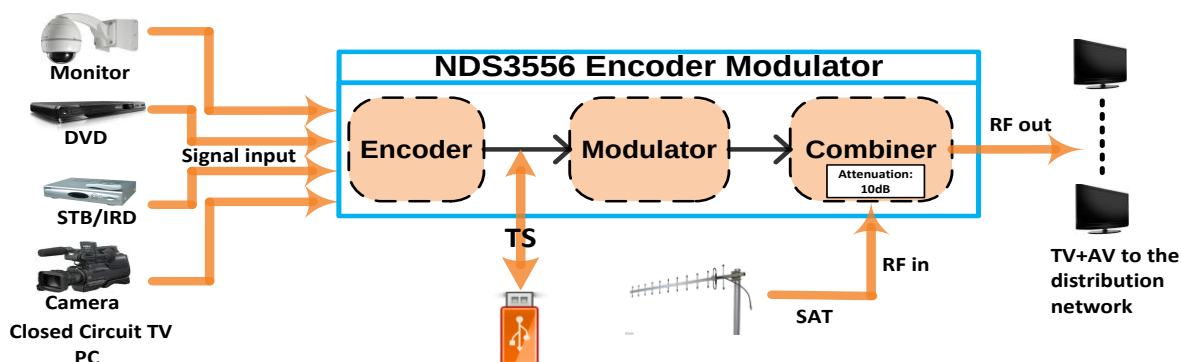


USB Port for Video Record, Save and Playback



to VGA Adapter

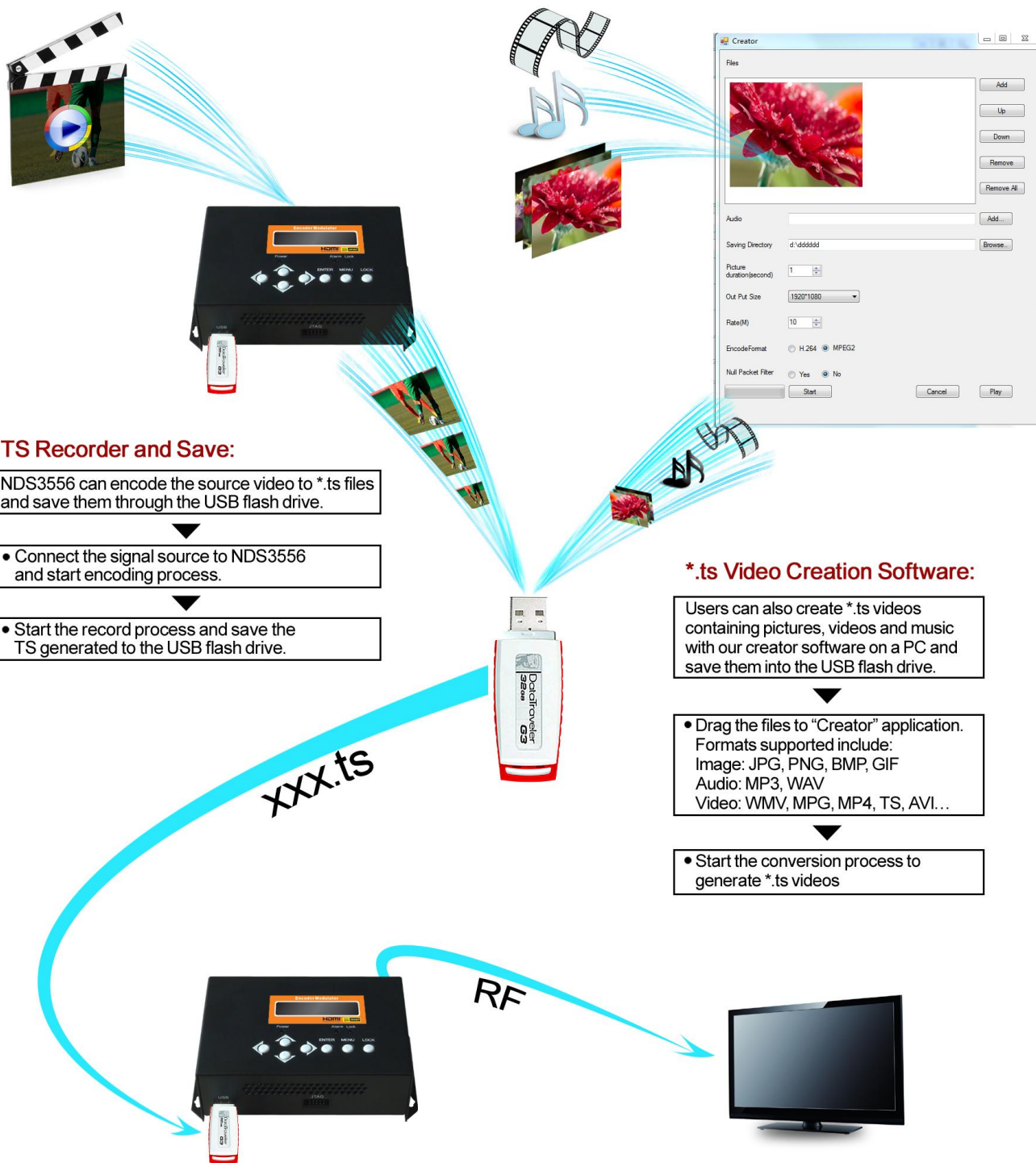
System Connection



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USB Recoder & Player



TS Recorder and Save:

NDS3556 can encode the source video to *.ts files and save them through the USB flash drive.

- Connect the signal source to NDS3556 and start encoding process.

- Start the record process and save the TS generated to the USB flash drive.

*.ts Video Creation Software:

Users can also create *.ts videos containing pictures, videos and music with our creator software on a PC and save them into the USB flash drive.

- Drag the files to "Creator" application.
Formats supported include:
Image: JPG, PNG, BMP, GIF
Audio: MP3, WAV
Video: WMV, MPG, MP4, TS, AVI...

- Start the conversion process to generate *.ts videos

TS Playback:

- Insert the USB flash drive with *.ts videos in NDS3556 and play back the content in an easy way.

- A single video can be up to 2G in size and multi videos can be played on a loop.



USB Flash Drive Specifications Required:

- **Standard:** High Speed 2.0
- **File System:** FAT 32
- **Memory:** 32G is suggested



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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

advertising,user information,news,etc



...for shopping centres

new collections,special deals,etc



Create your own advertising and information channel using only your NDS3556 Encoder Modulator



Technical Specifications

Encoding Section		
Video	Encoding	MPEG-2 MP@ML(4:2:0)
	Interface	CVBS *1
	Resolution	720x576_50i (PAL); 720x480_60i (NTSC)
	Bit rate	1.000~19.500 Mbps
Audio	Encoding	MPEG1 Layer II
	Interface	1*Stereo /mono
	Sample rate	48KHz
	Bit rate	64, 96, 128, 192, 256, 320, 384kbps
Modulator Section		
DVB-T		
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	
MER	≥42dB	
RF frequency	30~960MHz, 1KHz step	
RF output level	-16~ -36 dBm (71~91 dbμV), 0.1db step	
DTMB		
Standard	GB20600-2006	
FFT	1,3780, 1+pilot	
MER	≥42dB	
FEC	0.4, 0.6, 0.8	
Frame Mode	420, 595, 945, 420var, 945var	
Interleaving	240, 720	
RF frequency	30~960MHz, 1KHz step	
RF output level	-16~ -36 dBm (71~91 dbμV), 0.1db step	
Constellation	4QAM-NR, 4QAM, 16QAM, 32QAM, 64QAM	
DVB-C		
Standard	J.83A (DVB-C), J.83B, J.83C	

MER	≥43dB		
RF frequency	30~960MHz, 1KHz step		
RF output level	-16~ -36 dBm (71~91 dBμV), 0.1db step		
Symbol rate	5000-9000 Ksps		
	J.83A	J.83B	J.83C
Constellation	16/32/64/1 28/256QAM	64/ 256QAM	64/ 256QAM
Bandwidth	8M	6M	6M

ATSC

Standard	ATSC A/53		
MER	≥42dB		
RF frequency	30~960MHz, 1KHz step		
RF output level	-16~ -36 dBm (71~91 dBμV), 0.1db step		
Constellation	8VSB		

ISDB-T

Standard	ARIB STD-B31		
Bandwidth	6M		
Constellation	DQPSK, QPSK, 16QAM, 64QAM		
Guard Interval	1/32, 1/16, 1/8, 1/4		
Transmission Mode	2K, 4K, 8K		
MER	≥42dB		
RF frequency	30~960MHz, 1KHz step		
RF output level	-16~ -36 dBm (71~91 dBμV), 0.1db step		

System

Management	Local control: LCD + control buttons		
Language	English		
LCN Insertion	yes		
Upgrade	JTAG		

General

Power supply	DC 12V		
Dimensions	153*110*50mm		
Weight	< 1kg		
Operation temperature	0~45℃		

Technical Compare

Main Features	DEXIN NDS3556/NDS3557	Competing Products
Record TS to USB memory	● Yes (NDS3556)	● No
*.ts files play-mode supported	● Both Multi/Single files loop ● Support HD&SD video play	● Single file loop ● Support only SD video play
TS Creator.exe	● HD video to HD video transform ● Null Packet Filter, effect bit rate up to 90% ● Support output video size, rate, and format control	● HD video to SD video downscale ● No Null Packet Filter, effect bit rate only around 50%
Single video length	● 2-3 Hours HD/SD	● 40 Minutes SD



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