

## NDS3556 DVB-T/DVB-T SD Encoder Modulator



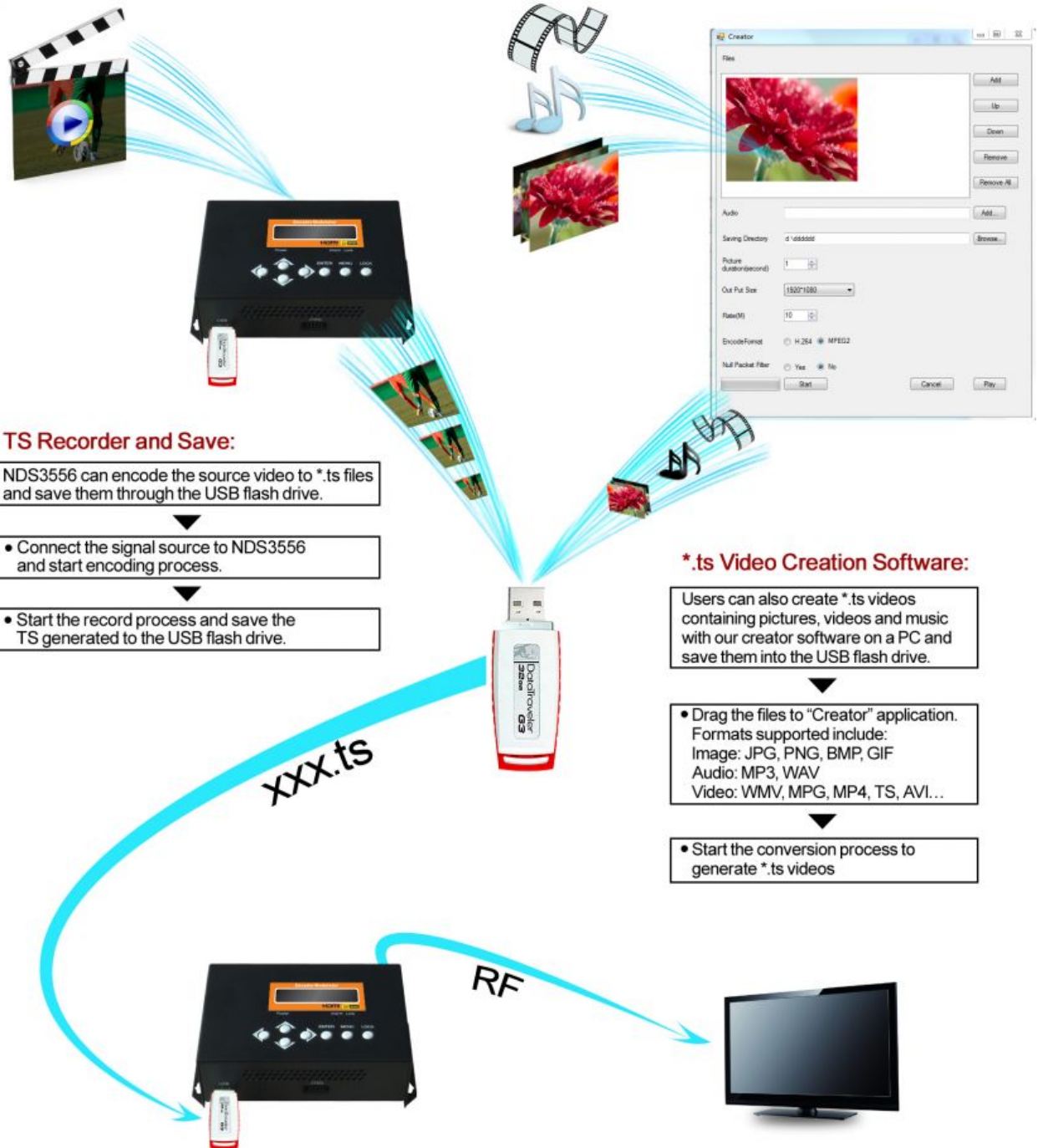
### General Description

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.



## USB Recorder & 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

## 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		
	<b>J.83A</b>	<b>J.83B</b>	<b>J.83C</b>
Constellation	16/32/64/1 28/256QAM	64/ 256QAM	64/ 256QAM
Bandwidth	8M	6M	6M
ATSC-T			
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 144*238*52mm optional-NDS3554		
Weight	< 1kg		
Operation temperature	0~45°C		