

DESING NDS3558 HD/SD Encoder Modulator

- ▶ HDMI/YPbPr/S-Video/AV/USB to DVB-C/T/ASTC/ISDBT RF
- ▶ DVB-C/T/ASTC/ISDBT RF in one device, **Modulation dynamic switching**

--- 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...

Enhanced USB Function:

- ⚙ **Compatibility:** Compatible with **Hard Disks** and **USB Keys** of various brands and types (USB 2.0, 3.0 acceptable; file system FAT32)
- ⚙ **Stability:** The USB key/Hard Disk can run continuously 24 hours to play your ts files and run more stably.
- ⚙ **Error detection & shooting:** The system can self-detect USB device errors and automatically restart it to ensure the running uninterrupted.

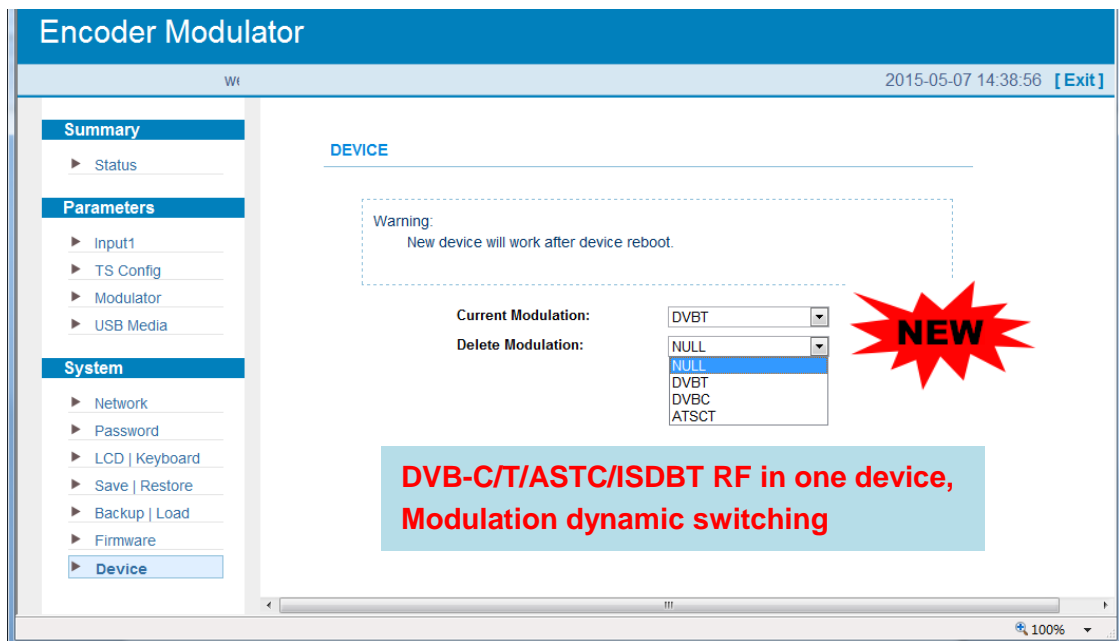


NEW 2:



Web-server Management:

In addition to control the device with LCD and navigation buttons on the front panel, the device can be also easily managed through a friendly User Interface after connected to a PC.



General Description

NDS3558 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.

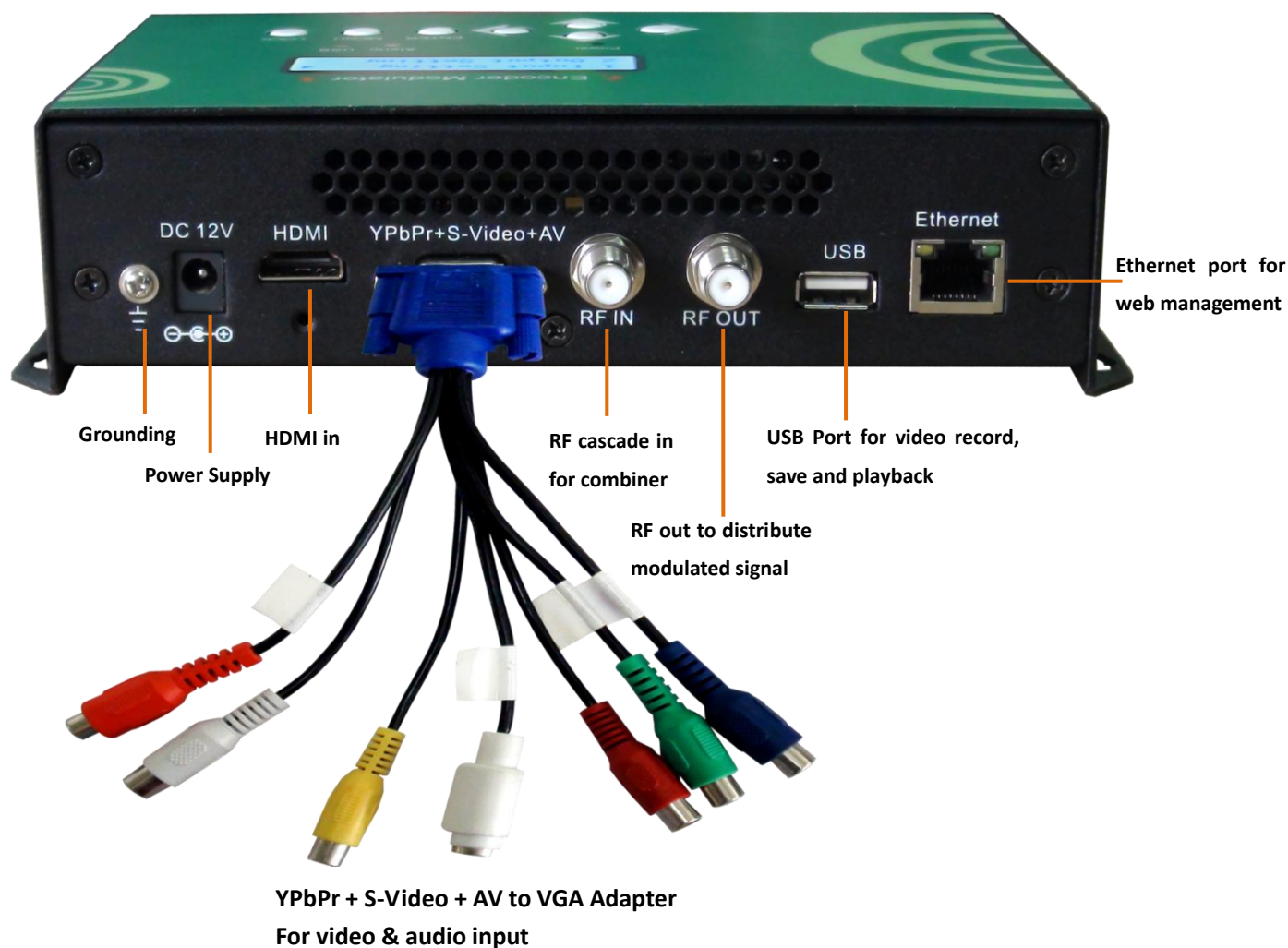
It is an all-in-one device integrating MPEG-4 AVC/H.264 encoding and modulating to convert audio/video signals into DVB-C/DVB-T/ATSC /ISDBT RF out.

The USB port is designed to record encoded video (TS) and save it in ts files in the USB Keys or Hard Disks, and then the ts files can be playback through the USB port. The ts files can be also generated on a computer with DEXIN's TS Creator.exe program.

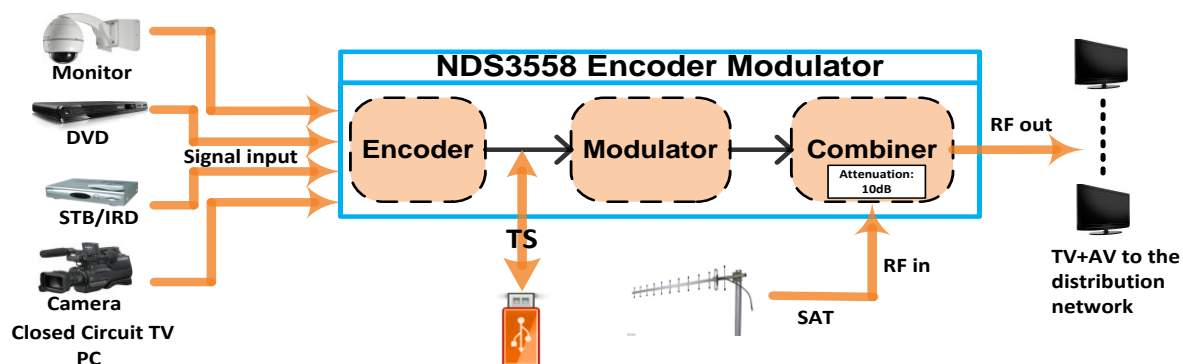
The signals source could be from satellite receivers, closed-circuit television cameras, Blue-ray players, antenna and a USB key or Hard Disk etc. Its output signal is to be received by TV sets or STBs etc.

Key Features

- HDMI/YPbPr/S-Video/AV input for encoding
- MPEG4 AVC/H264 HD/SD video encoding,
- MPEG1 Layer II, MPEG2-AAC, MPEG4-AAC audio encoding optional
- Record encoded TS and playback TS files (*.ts) through USB port
- Transmission mode (FFT): 2K, 8K (applied in DVB-T modulation)
- Enhanced USB function: more stable and compatible with Hard Disks and USB Keys of various brand
- USB device error self-detection and removal, ensure USB device running uninterrupted
- **DVB-C/T/ASTC/ISDBT RF in one device, DVB-C/T/ASTC/ISDBT modulation dynamic switching**
- Easy operation with LCD + control buttons, and Web-server management

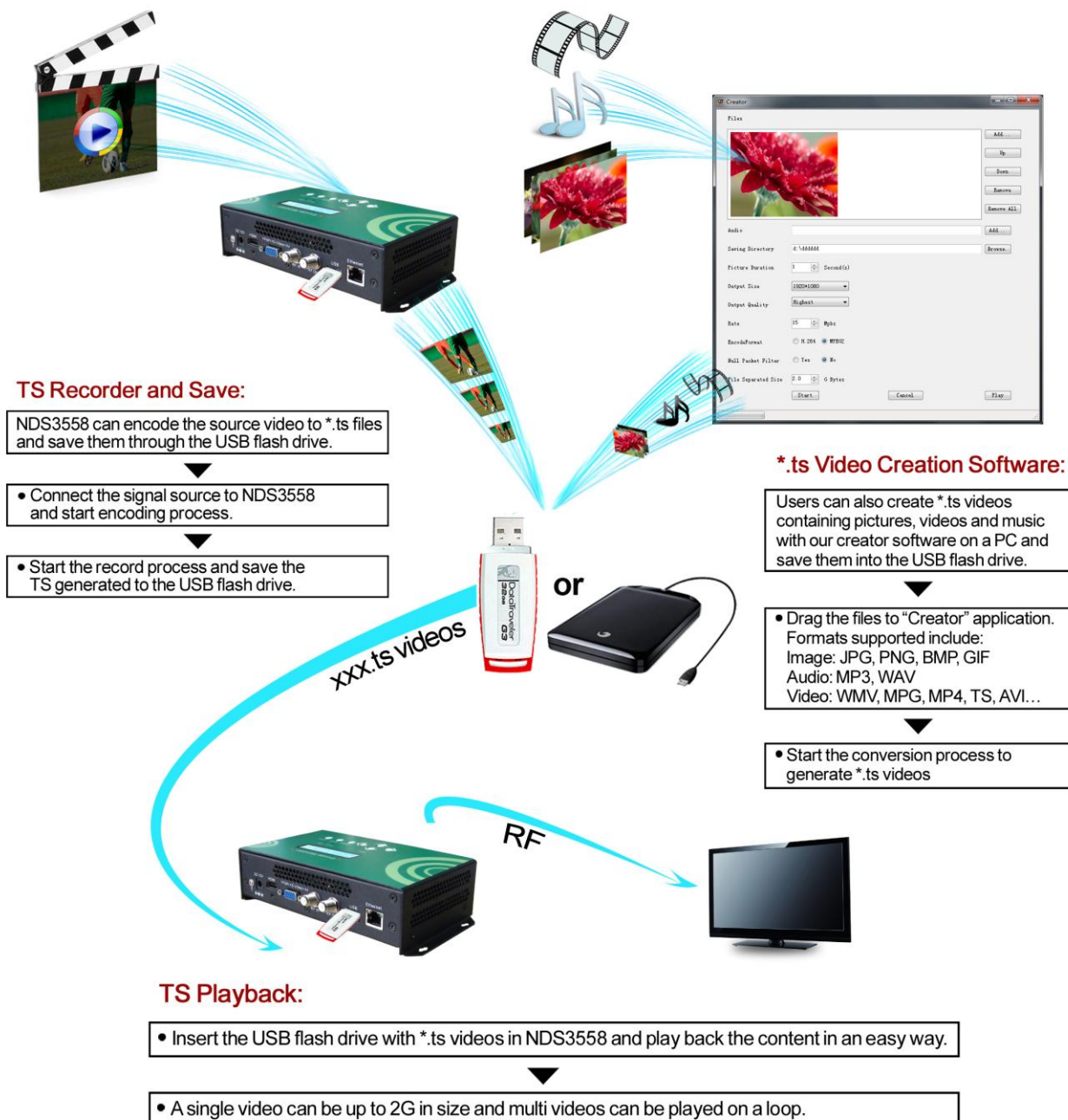


System Connection





USB Recorder & Player



USB Flash Drive Specifications Required: High Speed 2.0/3.0; File System FAT32

TS Creator.exe Download link:

<http://pan.baidu.com/s/1c0vOMY0>

Download path: English→Tool→TS Creator xxx.rar

Technical Specifications

Encoding Section		
HDMI		
Video	Encoding	MPEG-4 AVC/H.264
	H.264 Profile	High profile, main profile
	H.264 Level	Level 3.0/3.1/ 3.2/ 4.0/4.1/4.2
	Interface	HDMI*1
	Resolution	1920*1080_60P,1920*1080_50P; 1920*1080_60i, 1920*1080_50i; 1280*720_60p, 1280*720_50P
	Bit rate	1.000~19.500 Mbps
Audio	Encoding	MPEG1 Layer II, MPEG2-AAC, MPEG4-AAC
	Sample rate	48KHz
	Bit rate	MPEG1 Layer II: 64, 96,128, 192, 256, 320, 384kbps MPEG2-AAC: 128, 192, 256, 320, 384kbps MPEG4-AAC: 64, 96,128, 192, 256kbps
YPbPr/CVBS/S-Video (with an adapter to VGA)		
Video	Encoding	MPEG-4 AVC/H.264
	Interface	CVBS *1, YPbPr*1, S-Video*1
	Resolution	CVBS & S-Video: 720x576_50i (PAL); 720x480_60i (NTSC) YPbPr: 1920*1080_60i, 1920*1080_50i; 1280*720_60p, 1280*720_50P
	Bit rate	1.000~19.500 Mbps
Audio	Encoding	MPEG1 Layer II, MPEG2-AAC, MPEG4-AAC
	Interface	1*Stereo /2*mono
	Sample rate	48KHz
	Bit rate	MPEG1 Layer II: 64, 96,128, 192, 256, 320, 384kbps MPEG2-AAC: 128, 192, 256, 320, 384kbps MPEG4-AAC: 64, 96,128, 192, 256kbps
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, 8K	
MER		≥40dB	
RF frequency		30~960MHz, 1KHz step	
RF output level		-16~ -36dBm (71~91dbμV), 0.1db step	
DVB-C			
Standard		J.83A (DVB-C), J.83B, J.83C	
MER		≥40dB	
RF frequency		30-960MKHz. 1KHz step	
RF output level		-16~ -36 dBm (71~91dbμV), 0.1db step	
Symbol rate		5000-9000KHz	
	J.83A	J.83B	J.83C
Constellation	16 /32 /64 /128/256 QAM	64/ 256 QAM	64/ 256 QAM
Bandwidth	8M	6M	6M
ATSC			
Standard		ATSC A/53	
MER		≥40dB	
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 Remote control: web NMS	
Language		English	
LCN Insertion		yes	
RF Combine in ATT		10dB	
Upgrade		USB/Web-server	
General			
Power supply		DC 12V	
Dimensions		183*110*45mm	
Weight		< 1kg	
Operation temperature		0~45℃	

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 NDS3558 Encoder Modulator**

Technical Compare

Main Features	DEXIN NDS3558/NDS3556	Competing Products
Management	<ul style="list-style-type: none"> Local: LCD + control buttons Remote: web-server control 	<ul style="list-style-type: none"> Local: LCD + control buttons
Record TS to USB memory	<ul style="list-style-type: none"> Yes 	<ul style="list-style-type: none"> No
*.ts files play-mode supported	<ul style="list-style-type: none"> Both Multi/Single files loop Support HD&SD video play 	<ul style="list-style-type: none"> Single file loop Support only SD video play
TS Creator.exe	<ul style="list-style-type: none"> HD video to HD video transform Null Packet Filter, effect bit rate up to 90% Support output video size, rate, and format control 	<ul style="list-style-type: none"> HD video to SD video downscale No Null Packet Filter, effect bit rate only around 50%
Modulation dynamic switching	<ul style="list-style-type: none"> Yes 	<ul style="list-style-type: none"> No



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