FIBER OPTIC PRODUCT
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ONUS PLUS INTERTRADE CO., LTD.

บริษัท โอนัส พลัซ อินเตอร์เทรด จำกัด
ONUS PLUS INTERTRADE CO., LTD.

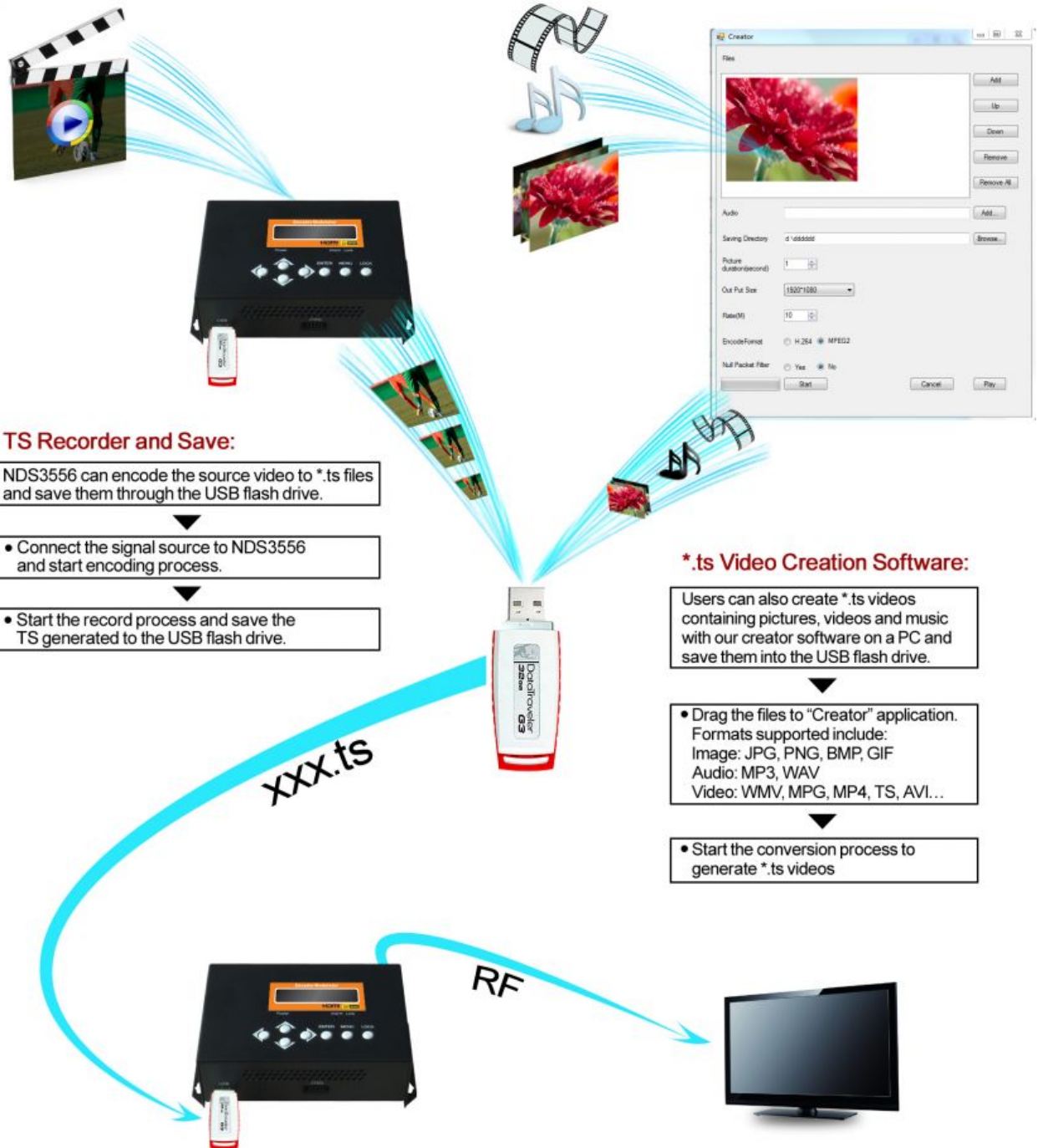## NDS3556 DVB-T/DVB-T HD Encoder Modulator

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-4 AVC/H.264 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 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.

xxx.ts

*.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

RF

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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Technical Specifications

Encoding Section

HDMI

Video	Encoding	MPEG-4 AVC/H.264
	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 available)
	Sample rate	48KHz
	Bit rate	64, 96,128, 192, 256, 320, 384kbps

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 available)
	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, 8K (Option)
MER	≥42dB
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	≥43dB
RF frequency	30~960MHz, 1KHz step
RF output level	-16~ -36 dBm (71~91dbμV), 0.1db step
Symbol rate	5000-9000 Ksps

	J.83A	J.83B	J.83C
Constellation	16/32/64/128 /256QAM	64/256 QAM	64/256 QAM
Bandwidth	8M	6M	6M

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 (71~91dbμV), 0.1db step
Constellation	4QAM-NR,4QAM,16QAM, 32QAM,64QAM

ATSC

Standard	ATSC A/53
MER	≥42dB
RF frequency	30~960MHz, 1KHz step
RF output level	-16~ -36 dBm (71~91dbμV), 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 (71~91dbμV), 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℃

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