

USB 2 Multi-Standard SIGGEN / Modulator

VENTUS 2.0

- ATSC Modulation
- DVB-T/H Modulation
- **NEW DVB-S2 Modulation**
- **NEW DVB-T2 Modulation**
- DVB-C Modulation
- DTMB Modulation
- DAB/DAB+/T-DMB Multiplexer + Modulation
- ISDB-T/B Modulations (Full-Seg/One-Seg)
- OpenCable Modulation
- ATSC MDTV Multiplexer + Modulation
- CMMB Multiplexer + Modulation
- DAB+/ DMB Muxer



Perfect RF Quality on DVB-T2 supporting from 30MHz to 2.5GHz!

Key Features

- Versatile Multi-Standards in a single USB 2 portable transmitter and easy upgrade to other standards through on-line service.
- Truly short switching time to another mode.
- Integrated Power Amplifier & Attenuator : -110 dBm ~ +7dBm(30MHz ~1GHz), -110dBm ~ +3dBm(1GHz~2.5GHz), 0.1 dB step
- Low phase noise and high MER.
- Latest User-friendly application and API (design your own application) can be downloaded from Web based download Center freely.
- Real-time signal with selectable Modulation and coding parameter.
- Integrated white noise generator (AWGN).
- TS stream player, TS Recorder, TS Analyzer.
- Remote Control via USB 2.0 from general Laptop. (Max 4 'VENTUS' units can be operated from one PC).
- Low power consumption.
- Real-Time Modulation (ASI In to RF Out) :ATSC, DVB-T/H,
- Auto temperature compensation.
- Fan-less heat dissipation design.
- High precision synthesizer (OCXO)



Specifications

RF Singal	Frequency Range	30MHz to 2.5GHz
	Frequency Step	1 Hz
	Output Power	-110dBm~+7dBm(30MHz~1GHz) -110dBm~+3dBm(1GHz~2.5GHz) / 0.1dB step
	Output Power Accuracy	< +1dB
	Spectral Purity	< -60dBc@Full Bandwidth
Modulation Modes	Terrestrial DTV	DVB-T / DTMB / SDB-T fullseg / ATSC / DVB-T2
	Cable DTV	DVB-C / Opencable
	Sattellite DTV	DVB-S / DVB-S2
	Mobile DTV	CMMB / ATSC-MDTV / DVB-H / T-DMB / ISDB-T 1seg / T-DMB
	Digital Sound Broadcasting	DAB / DAB+
	Multiplexer	CMMB Multiplexer / ATSC-MDTV Multiplexer
TS Generator	ASI OUT	Transport Stream Play
AWGN	All standard mode	2 times Signal Bandwidth
TS Recorder	ASI IN	Transport Stream recording / real-time modulation
System Platform	RF Output	SMA 50 Ω
	DVB-ASI Output	BNC 75 Ω
	DVB-ASI Input	BNC 75 Ω
	Control	USB 2.0
	Power	90 VAC ~ 240 VAC, 50/60Hz
	Dimensions	427mm x 44mm x 450mm (16.81" x 1.73" x 17.72")
	Weight	< 3Kg



All-in-one DMB/DAB/DAB+ Ensemble Multiplexer

Ventus 1.0 /2.0/F1 Option Upgrade

Support dynamic reconfiguration

- Support file format
 - ETI structure data(*.eti)
 - MP1L2 elementary stream data(*.mp2)
 - AAC elementary stream data(*.aac)
 - M4onM2(MPEG-4 on MPEG-2) TS(*.ts)
- Editable element
- DAB modes : I, II, III, IV
 - Ensemble : ID, name
 - Service : ID, name, link info, announcements, program type
 - Component : SCID, SCIDs, name, language
 - Sub-channel: ID, protection mode, FEC scheme
 - Insertion extra FIG data

Compatibility

- ETSI EN 300 401 v1.4.1
- main DAB standard

