

# eYe Grabber™ ISDB-T

**Small, Portable, USB Powered, Frequency Agile, ISDB-T Transport Stream Test Modulator for the Real Time Output of Live or Stored HD Streams Coming Via IP, ASI, or Local Hard Drive to Be Sent to Coax RF CCTV Systems. Includes Transport Stream Player with Scheduling. Inexpensive and Easy to Use Device for Use in Development Labs and for Technology Demonstration Purposes.**



## Features

- Supports captured file play, live from external source through ASI or IP input
- Input: IP, DVB-ASI, or USB
- Output: ISDB-T or DVB-ASI
- Includes ASI port for simultaneous ASI and RF output if TS is pulled from hard drive
- Frequency agile
- ARIB STD-B31 v1.6 compliant
- 54 MHz and up complete VHF/UHF RF out
- On board channel selectable RF output up-converter
- Programmable RF output level (0.1 dB step)
- Can superposition white noise over modulated signal and control the output C/N ratio
- Feeds either an antenna or coax cable
- Field upgradeable – can be reprogrammed to add other profiles
- Playout Scheduler – schedule tasks (5 maximum) to run daily, weekly or monthly at a certain time
- Ships with Windows® 7, XP, based GUI
- Linux® and Windows® SDK's available for customization
- Customer oriented API is also available
- Sample transport streams available
- 0dBm amplifier included with 0.1 dB attenuation
- Option for Multi Function product that accepts other modulations including 8VSB, QAM, ATSC M/H, DVB-C2, DVB-H, DVB-S/S2, ISDB-S, DVB-T, DVB-T2, CMMB, etc.
- Special Bundle Prices for multiple modulations

## Applications

- Engineering labs
- In Store Demos of ISDB-T receivers
- Digital Signage
- Test Equipment for RF demodulators
- Hotel and Lodging video systems

## Overview

RF modulators convert video to RF (radio frequency) so the video can be transmitted to a television via its RF input. ISDB-T (Integrated Services Digital Broadcast – Terrestrial) is the digital broadcasting standard used in Japan and Brazil for mobile and regular terrestrial digital TV.

The ARIB standard compatible eYe Grabber™ ISDB-T is a software definable modulator with a frequency agile modulator that sends live or recorded video streams to multiple HD monitors via inexpensive RF over coaxial cable. With its included software, one can create a powerful signage server.

The eYe Grabber ISDB-T is ideal for closed circuit video systems. For example, a company exhibiting at a trade show can pull video from a computer hard drive, connect the eYe Grabber ISDB-T to the computer via the USB port, and transmit video simultaneously to lots of HD monitors within the exhibit via RF cabling. Or, retailers can install one unit each at each store, send regularly updated video from a satellite feed or over IP, and have it play out on multiple HD monitors at each location. It's also ideal for generating RF signals for field testing and laboratory applications.

The input can be IP, USB, or DVB-ASI, single or multi program transport streams.

Customers can purchase licenses for additional profiles and upgrade the unit immediately. The compact eYe Grabber ISDB-T can interface via an antenna or coaxial cable.



**Computer Modules, Inc.**

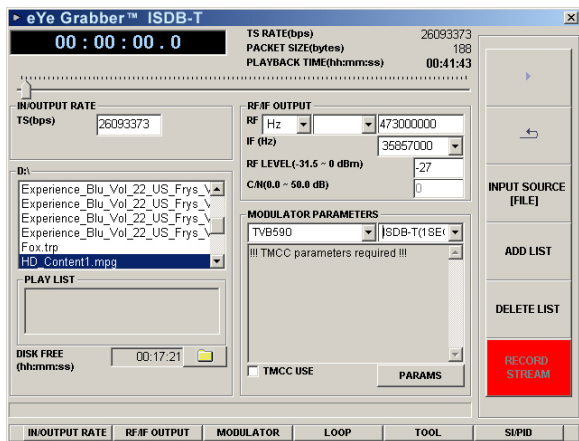
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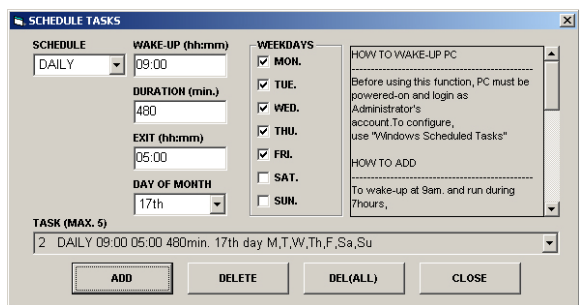
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[www.dveo.com](http://www.dveo.com)

# eYe Grabber™ ISDB-T GUIs



**Main GUI**



**Playout Scheduler GUI**

## Product Views



**Front**



**Back**

USB  
Input/Output

Power

On/Off  
Switch

## Specifications

### Inputs/Outputs

Input	IP, USB, DVB-ASI, or stored transport stream
Output	ISDB-T or DVB-ASI
RF Output	Freq: 400 - 700 MHz Freq accuracy: +/-5 KHz max Attenuation step: 0.1 dB Phase noise <-90dBc/Hz @ 10 KHz RF step size: 50 KHz step
Bit Rate	Up to 90 Mbps
Drivers	32 and 64 bit Windows® 7, XP, 2000, 32 and 64 bit Vista, WDM, and Linux®
Connectors	75 Ohm BNC

### ISDB-T Specifications

Standard	ARIB STD-B31 v1.6 compliant
Mode	Mode I, Mode II, Mode III
Code Rates	1/2, 2/3, 3/4, 5/6, 7/8 selectable
Mapping	DQPSK, QPSK, 16-QAM, 64-QAM
Guard Interval	1/4, 1/8, 1/16, 1/32
Timing Interleaving Length	Mode I - 0, 4, 8, 16 Mode II - 0, 2, 4, 8 Mode III - 0, 1, 2, 4
Number of Segments	1 / 13 Segment
Support TMCC Info Generation (ISDB-T info & IIP)	*ISDB-T modulation from DVB-ASI input is not supported
MER	~ 33dB (Measured with Anritsu MS2721 ISDB-T Analyzer)
Spectral Purity	>50dB (at VHF/UHF), i.e. Spurious levels are lower by 50 dB than modulated signal

### Physical & Power

Dimensions	Width: 5.83 inches (148 mm) Length: 9.33 inches (237 mm) Height: 1.3 inches (33 mm)
Weight	1.2 lbs. (544 grams)
Power	External 19V DC power supply
Operating Temp.	32° to 113° F (0°C to 45°C)
Humidity	To 85% Non-condensing relative humidity
Conformities	FCC, UL, RoHS, CE Mark

## Ordering Information

### eYe Grabber ISDB-T

Note: Software ships with eYe Grabber at no cost.

Note: This unit is upgradeable with all other modulations, like 8VSB, QAM, ATSC M/H, DVB-C2, DVB-H, DVB-S/S2, DVB-T, DVB-T2, ISDB-S, T-DMB, DTMB, CMMB, etc.

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