

# eYe Grabber™ QAM

**Small, Portable, USB Powered, Frequency Agile (55-810 MHz), QAM 16/32/128/256 Compliant 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, USB, or SMPTE 310M
- Output: QAM (Annex A, B, or C) or DVB-ASI
- Includes ASI port for simultaneous ASI and RF output if TS is pulled from hard drive
- Frequency agile
- RF Output Frequency: 55-860 MHz, 956-1750 MHz
- Payload = Up to 38 Mbps
- ITU-T J.83 Annex A/C and B compatible
- 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
- Payout 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, ATSC M/H, DVB-C2, DVB-H, DVB-S/S2, ISDB-S, DVB-T, DVB-T2, CMMB, ISDB-T, etc.
- Special Bundle Prices for multiple modulations

## Applications

- Validating QAM reception
- Digital signage
- Sending HD video to multiple monitors in sports arenas and stadiums
- Trade shows
- Set-top box testing
- Test Equipment for RF demodulators
- Laboratory applications

## Overview

RF modulators convert video to RF (radio frequency) so the video can be transmitted to a television via its RF input. QAM is the RF modulation format used for cable in the U.S. This modulation format is designated by the ITU organization.

The eYe Grabber™ QAM 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 QAM 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 QAM 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. One QAM channel can have two HD streams.

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



**Computer Modules, Inc.**

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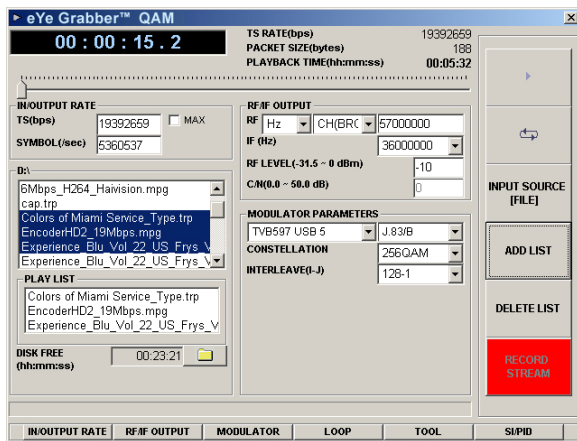
**San Diego, CA 92127**

**Tel: 858-613-1818 Fax: 858-613-1815**

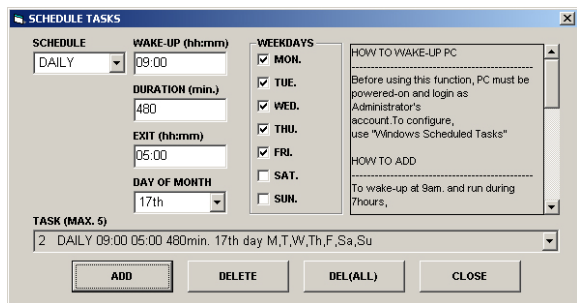
[www.dveo.com](http://www.dveo.com)

# eYe Grabber™ QAM

## GUIs



**Main GUI**



**Playout Scheduler GUI**

## Product Views



**Front**



**Back**

USB  
Input/Output

Power  
On/Off  
Switch

## Ordering Information

### eYe Grabber QAM

Note: Software ships with eYe Grabber at no cost.

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

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## Specifications

### Inputs/Outputs

Input	IP, USB, DVB-ASI, SMPTE 310M, or stored transport stream
Output	QAM or DVB-ASI
RF Output	Freq: VHF/UHF 55~860 MHz L-BAND 956~1750 MHz Level: VHF/UHF -31.5 to 0 dBm L-BAND -31.5 to -20 dBm 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 38 Mbps
Drivers	32 and 64 bit Windows® 7, XP, 2000, 32 and 64 bit Vista, WDM, and Linux®
Connectors	75 Ohm BNC

### QAM Specifications

Standard	ITU-T J.83 Annex A/C and B compatible
Constellations	Annex A/C: 16-QAM, 32-QAM, 64-QAM, 128-QAM, and 256-QAM selectable Annex B: 64-QAM and 256-QAM

### Maximum Information Bit Rates

Annex A	64-QAM: 38.440471 Mbps 256-QAM: 51.253961 Mbps
Annex B	64-QAM: 26.97035 Mbps 256-QAM: 38.81070 Mbps
Annex C	64-QAM: 26.97035 Mbps 256-QAM: 38.810701 Mbps

### 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



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