

# Ministreamer™ HD-SDI/NDI®

Real time, hand sized, fanless, highly reliable, quick starting, standards compliant, embedded Linux® based, remotely manageable, single channel HD-SDI to NewTek™ NDI® (Network Device Interface) Encoder. Incorporates a "minimal" Linux® kernel (residing on an SSD) yielding a highly reliable encoder manageable from anywhere via web GUI. Built by us and thus can be customized.



## Features

- Input: One SDI or HD-SDI SMPTE 292M input
- Output: One encoded NewTek™ NDI® output
- Audio Output: AAC, MPEG Audio, or AC-3
- Interoperable with all NDI®-compliant systems
- Rugged fanless design with no moving parts
- End-to-end latency: 200 milliseconds
- Web GUI is manageable from anywhere – includes some scheduling
- Supports DOZER™ protocol option for reliable video over wired and wireless networks
- Supports SD, 720p, 1080i, and 1080p

## Overview

NewTek™, a leading supplier of live video production systems, recognized the need for a single, interconnected live video production environment where any device can connect to every other device -- and every source is also a destination using IP instead of the siloed SDI architecture. By thoroughly understanding SMPTE Serial Digital Interface (SDI), and the Internetworking Protocol stack, NewTek™ created the Network Device Interface (NDI®) video standard which is transforming the way people create network style television content.

DVEO is introducing our Ministreamer HD-SDI/NDI®. We engineered it to convert between HD-SDI and NDI® flawlessly so that a smooth, economically reasonable transition which preserves the existing investment can be made by our video production customers.

The DVEO product family interconnects legacy HD-SDI equipment with the latest NDI® capable video production systems such as the NewTek™ TriCaster® and production system network elements. These network elements include multiviewers, video switchers, and DVEO NDI® equipped products such as our Brutus™ encoders and transcoders and MultiStreamer™ video streaming appliances.

The Ministreamer HD-SDI/NDI® connects to the production workflow network or the production control plane network using Ethernet. It offers a full web based configuration utility that allows users to easily setup and change settings from anywhere in the local network or from a remote location.



Computer Modules, Inc.

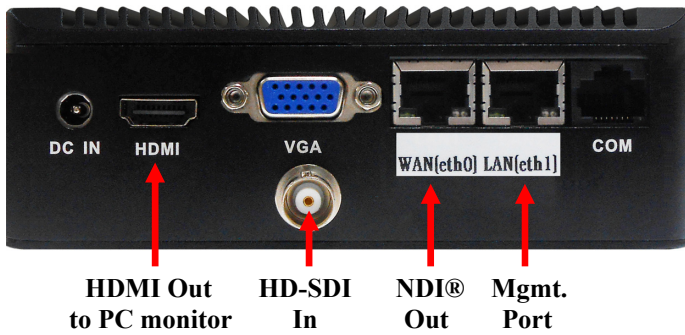
11409 West Bernardo Court

San Diego, CA 92127

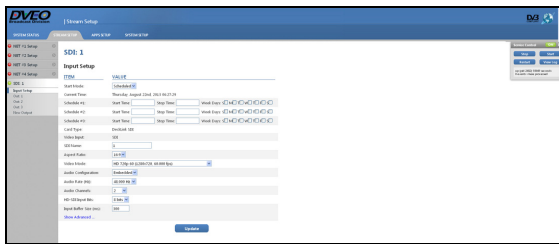
Tel: 858-613-1818 Fax: 858-613-1815

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

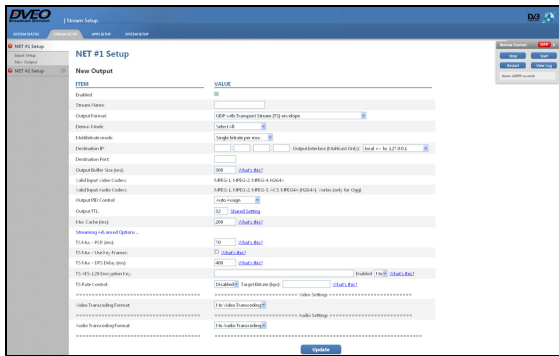
## Rear View



## Sample of GUIs



Scheduled SDI Input Setup



IP Output Setup

## Option – UDP Packet Recovery

- Optional DOZER™ Automated UDP Packet Recovery protocol, enabling error-free video delivery over UDP. DOZER ensures smooth H.264 delivery through DVEO patented algorithms for automated packet recovery and re-ordering of out-of-sequence packets.

## Ordering Information

Ministreamer HD-SDI/NDI: HD-SDI In, NewTek™ NDI® Out

## Specifications

### Inputs

Video:	One SDI or HD-SDI
Audio:	SDI Embedded

### IP Output

Outputs:	One encoded NewTek™ NDI® output up to 1080p 30/1080i 60
Audio Output:	AAC, MPEG Audio, or AC-3
Bit Rates:	Up to 90 Mbps
End-to-End Latency:	200 milliseconds

### Administration

Access:	Web interface, SSH (Secure command line interface)
SNMP:	Monitoring and alerts
Scheduling:	On, Off support for timeslots

### CPU and Operating System

CPU:	Intel Core I3-4160 3.6GHz, Dual Core
OS:	DVEO embedded Linux® on SSD
Memory:	4 GB RAM
Hard Drive:	32 GB MSATA SSD

### Physical & Power

Size:	5.5 x 4.88 x 1.81 inches (L x W x H) 140 x 124 x 46 mm (L x W x H)
Power Supply:	DC-12V
Operating Temperature:	15°C ~ 60°C
Humidity:	10% to 90% relative humidity, non-condensing
Weight:	1.6 lbs. (826 grams)
Conformities:	FCC, CE, RoHS

### Security

Ports security scanned to MIL requirements prior to shipment
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