

**Data9II®**

***Verus***

**HD Digital Video Recording System**



In-Car PCs • Video • LPR • AVL

**ata9II®**

***Verus***

## **HD Digital Video Recorder Features**

- ▶ Connect up to 6 HD/IP cameras
- ▶ Available *Tethered* to an in-car computer or *Standalone*
- ▶ Live Streaming Video
- ▶ Video Encoding – H.264
- ▶ 4 – MP3 Audio channels (CD Quality Sound)
- ▶ 2 – SD Memory Card slots (Also backs up to PC HD)
- ▶ 6 Physical GPI Triggers (plus accelerometer, GPS, mic and LPR)
- ▶ Supports 2 Wireless Microphones
- ▶ Supports Wireless Body Worn Cameras
- ▶ Software updates are automatically pushed to vehicles
- ▶ License Plate Recognition ready (Optional)
- ▶ Integration with body worn cameras
- ▶ Uploads Video to Central Evidence Mgmt over Wifi or Cellular

**ata9II<sup>®</sup>**

***Verus***

## **HD Digital Video Recorder Specifications**

- ▶ Size: 249mm x 131mm x 64mm (9.8" x 5.16" x 2.5")
- ▶ Recording Rate: Configurable up to 30 Frames Per Second
- ▶ Pre-Event Recording configurable 1 second up to 15 minutes
- ▶ Operating Vibration: 100+ g shock
- ▶ Operating Temperature: -30° C to +70° C
- ▶ Crash Sensor: 3 axis accelerometer built-in configurable
- ▶ Recording Format: 64GB SD, up to 2 cards

Optional 128GB or 256GB available

**ata9II<sup>®</sup>**

**Verus**

## HD Digital Video Recorder – I/O

to in-vehicle  
r and pass-  
Ethernet

Wireless Microphone  
sync-once with  
external antenna

4 CD Quality  
Audio Channels

Built-In GPS

Remote Mic Sync



n 3-wire WiFi  
(stand-alone version only)

6 Input Triggers,  
3 GPOutputs

Connect up to  
6 HD/IP PoE cameras

**ata9II®**

**Verus**

## HD Digital Video Recorder Versions

**0 - Tethered**  
n-car computer



**- Stand-Alone**  
n-car computer  
d (Motorcycle,  
available Laptop)



**- Stand-Alone**  
rview Room  
ransports



# ata9II<sup>®</sup>

## Verus

### HD Digital Video Recorder - Cameras

#### Front Camera

- ▶ Resolution 1280x720P HD, 30FPS
- ▶ Day/Night Function, Minimum Illumination 0.30 lx
- ▶ 12x Optical, 12x Digital, 144x Total
- ▶ H.264 Video Codec
- ▶ 110mm x 55mm x 54mm, 14.5 oz
- ▶ RJ45 Ethernet Interface, PoE (Power over Ethernet)
- ▶ 53.4° wide to 4.6° telephoto
- ▶ Auto/Manual Focus, White Balance

12X Zoom



Fixed – No Zoom



#### Rear Seat Camera

- ▶ Resolution 1920x1080P, 1280x720P UHD, 30FPS
- ▶ Day/Night Function, Infrared Projection 0 lx
- ▶ H.264 Video Codec
- ▶ 80mm x 70mm x 52mm, 16.0 oz
- ▶ RJ45 Ethernet Interface, PoE (Power over Ethernet)
- ▶ 120° wide angle view

Prisoner



# ata9II<sup>®</sup> Verus

## HD Digital Video - *Optional Applications* / Cameras

**Motorcycle** Bullet Camera



**Transports/Dome** Camera



**Exterior Side/Backup**



**Multi Purpose**



# ata9II<sup>®</sup>

## *Verus*

### HD Digital Video Recorder - Audio

#### less Microphone

- Frequency 900 MHz
- Modulation DSSS
- RF Power 148 mW
- Operating Range Over 2000' (Line-of-Sight)
- External Lapel Microphone
- Excellent Signal Penetration
- Up to 2 microphones per vehicle
- Multichannel with Auto Synchronization
- 1600mAh Li-Ion Battery
- Charging 3.0 Hours
- Talk Time up to 18 Hours
- Standby up to 14 Days
- Size 88mm x 52.5mm x 28.5mm
- Weight 120g (w/Battery)
- IP66 Dust and Water Resistant



# ata9II<sup>®</sup>

## Verus

HD Digital Video Recorder - BodyCam/Audio

*Optional – BX1 Body Camera*

**BodyCam / Wireless Microphone Combo**

- ▶ 1080p/720p 30 fps
- ▶ H.264 compression, MP4
- ▶ 140 degree viewing angle
- ▶ 4.0 ounces, Rotatable Clip
- ▶ Single Dock/Charger in-station
- ▶ 8-Gang Dock/Upload Station USB 3.0
- ▶ Automatically **triggered by Vehicle** video
- ▶ Body Camera **can trigger Vehicle** video
- ▶ **Wireless Offloading** of videos to the vehicle
- ▶ 7 hours 720p, 12 hours 480p, 3500 mA battery
- ▶ 32GB, (Optional 64GB)
- ▶ 3.0 Hour full recharge time
- ▶ Beep and LED indicators



# ata9II®

# Verus












## HD Digital Video Recorder - Triggers

### Fully Configurable Triggers

- Wireless Microphone trigger
- Vehicle Speed trigger
- Light Bar trigger
- Siren trigger
- Accelerometer / Crash Sensor 3 axis
- Gun Rack electronic release
- Rear Door open trigger
- Brake Pedal applied (On Screen Display)

Wireless Microphone Buttons	
Trigger/WiMic/0/0/Enabled	1: Enabled <input type="button" value="v"/>
Trigger/WiMic/0/0/Name	M1R
Trigger/WiMic/0/0/PrettyName	Wireless Mic #1 REC
Trigger/WiMic/0/0/Action	RecordFront
Trigger/WiMic/0/0/OffAction	
Trigger/WiMic/0/0/ForceDuration	0.0
Trigger/WiMic/0/1/Enabled	1: Enabled <input type="button" value="v"/>
Trigger/WiMic/0/1/Name	M11
Trigger/WiMic/0/1/PrettyName	Wireless Mic #1 B1
Trigger/WiMic/0/1/Action	Mark
Trigger/WiMic/0/1/OffAction	

Client Configuration List: Create New Mobile Configuration

General	Video	Audio	Triggers	Outputs	LPR
Speed Trigger					
	Trigger/Speed/Enabled	1: Enabled 			
	Trigger/Speed/Name	SPD			
	Trigger/Speed/PrettyName	Speed			
	Trigger/Speed/Threshold	90.0			
	Trigger/Speed/Action	RecordFront			
	Trigger/Speed/OffAction				
	Trigger/Speed/DelayOn	3.0			
	Trigger/Speed/ForceDuration	0.0			
Crash Sensor					
	Trigger/Accel/Enabled	1: Enabled 			
	Trigger/Accel/Name	CRH			
	Trigger/Accel/PrettyName	Crash			
	Trigger/Accel/ThresholdX	4.0			
	Trigger/Accel/ThresholdY	4.0			
	Trigger/Accel/ThresholdZ	6.0			
	Trigger/Accel/DelayOff	3.0			
	Trigger/Accel/Action	RecordFront RecordRear			
	Trigger/Accel/OffAction				
	Trigger/Accel/ForceDuration	0.0			

**ata9II®**

***Verus***

**HD Digital Video Recorder - Live View**



# ata9II<sup>®</sup>

## Verus

### HD Digital Video Recorder - Status / Error Indicators



**ata9II<sup>®</sup>**

***Verus***

**HD Digital Video Recorder - Video Review Playback**

**Review**



+0.02 +0.99



Pause



Rew



F Fwd



Prev

2014/01/13 15:26:03

Record  
ALL Triggered by Record Butt



Next



Mark



Open



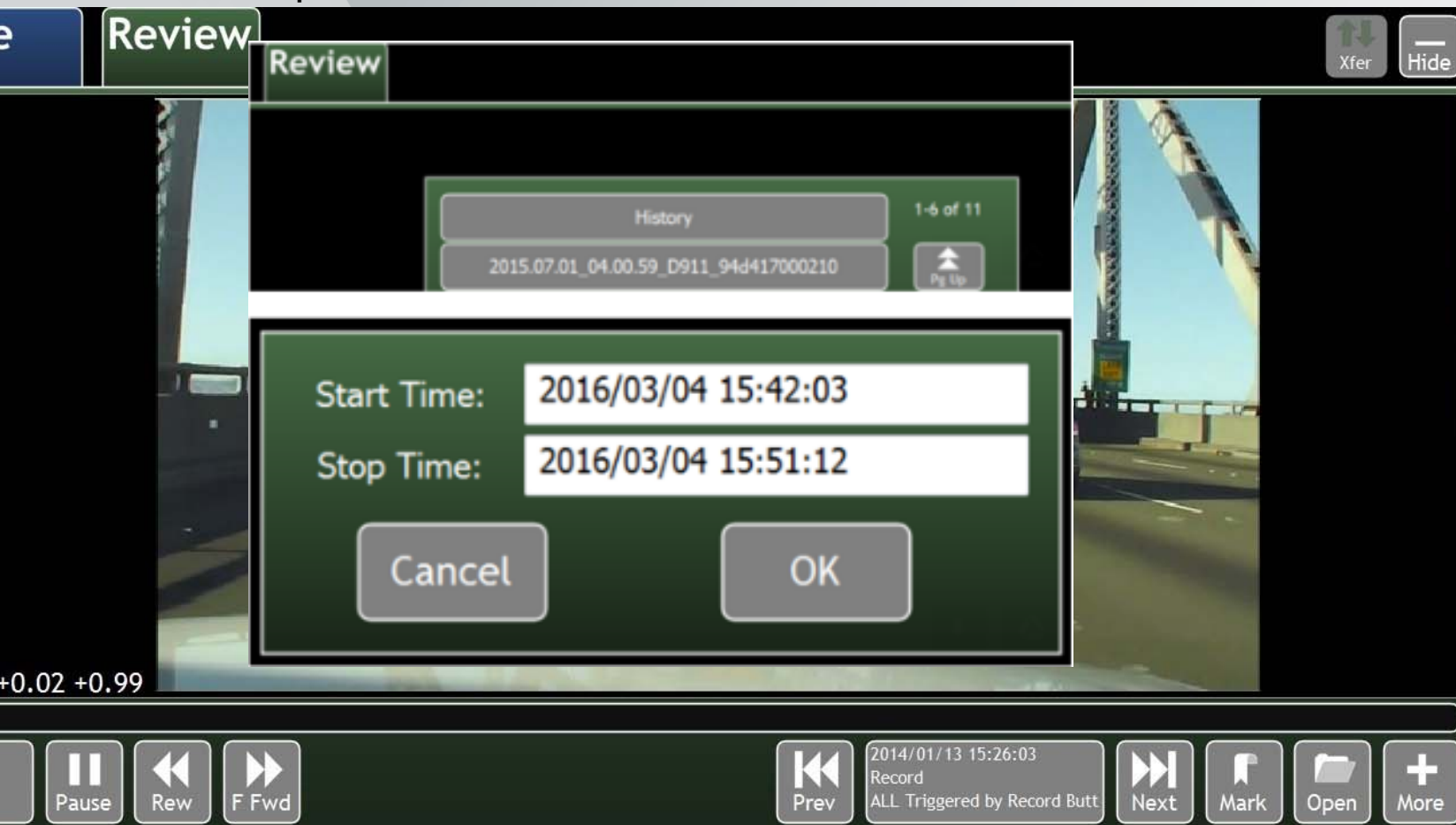
More

# ata9II<sup>®</sup>

## Verus

### HD Digital Video - *Rolling History* (Create a Video Event)

Create Videos from background recording  
Up to 64 Hours with a 128GB SD Card



**ata9II®**

***Verus***

**HD Digital Video - Video Bookmarks**  
***User Configurable Fields***

Name	<input type="text"/>	Case #	<input type="text"/>	Citation #	<input type="text"/>
Time	2014/02/18 13:00:19	Veh Plate	<input type="text"/>	Veh Reg	<input type="text"/>
	<input type="button" value="Start here on open"/>	First Name	<input type="text"/>	Mid Name	<input type="text"/>
Class	<div><div>[No Class]</div><div>Junk</div><div>Traffic Stop</div><div>DUI</div><div>Vehicle Pursuit</div><div>Vehicle Search</div><div>UOF</div><div>Arrest / Transport</div><div>Street Investigation</div><div>Police Run</div><div>Accident</div><div>Citizen Contact</div></div>	Last Name	<input type="text"/>	Drv Lic #	<input type="text"/>
		DOB	<input type="text"/>		
		Description	<input type="text"/>		
Title	<input type="text"/>	<input type="button" value="Cancel"/>		<input type="button" value="OK"/>	

# ata9II®

## Verus

### HD Digital Video - *Redaction*

a Spotlight



#### Video and Audio Redaction Software

MotionDSP's advanced video and audio redaction software, Ikena Spotlight, uses proprietary object-tracking technology to help automate the process of blurring faces and other personally identifiable information, saving police departments countless hours compared to manual frame-by-frame redaction.

Spotlight is camera agnostic and can be used with video from different brands of body cameras, security cameras, dash cams and even cell phones. It also features **audio redaction** and voice modulation to mute, bleep or disguise the voices of undercover officers, witnesses, victims and minors.

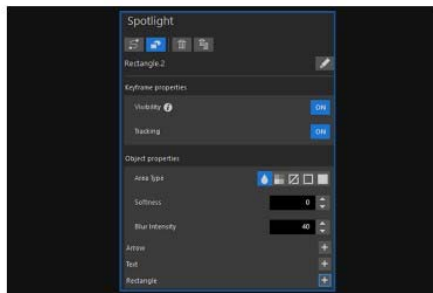
[Buy Now](#)[Schedule Demo](#)[Download Brochure](#)

# Ikena911®

# Verus

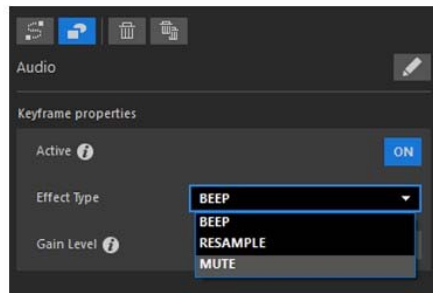
## HD Digital Video - *Redaction*

### Features



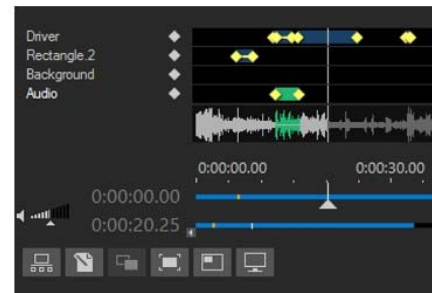
#### Automated Tracking Technology

Spotlight's automated tracking algorithms greatly reduce the number of steps needed to blur objects and remove the need for frame-by-frame redaction.



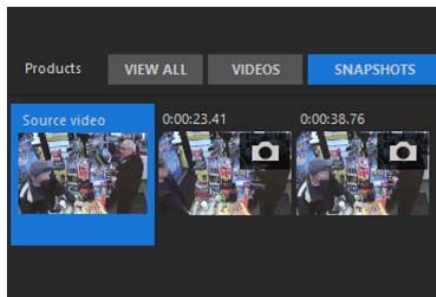
#### Audio Redaction

Bleep, mute or modulate specific clips of audio in your video to protect the identities of witnesses, minors, victims and undercover police officers.



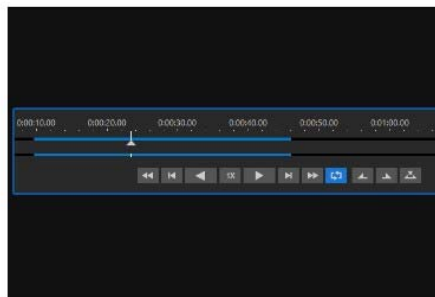
#### Audio Waveform Bar

The waveform bar in Spotlight gives you a visual representation of audio in your video to more quickly identify where potential dialogue is taking place.



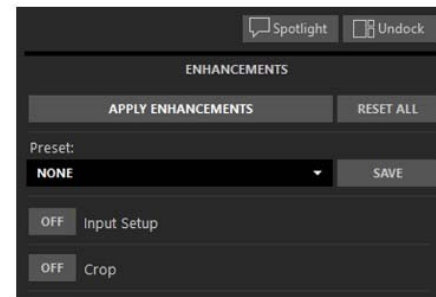
#### Create Snapshots

Create and export a snapshot of any frame in your video to present as evidence in court or to share to get the public's help to identify suspects.



#### Timeline Trimming

Trim videos to redact and export only the sections that are most important to you, while also reducing the sizes of your files.



#### Embedded in Ikena Forensic

For customers that have purchased Ikena Forensic, Ikena Spotlight can be opened within the Forensic interface without switching applications.

**ata9II®**

**Verus**

## HD Digital Video - License Plate Recognition (LPR)

The screenshot displays the Verus LPR software interface. At the top, there are three main tabs: **MDVR** (Idle), **Review** (15 Events), and **LPR** (37 new reads). To the right of these tabs are several status icons: **Uploading** (green arrow), **Low Band** (red tower), **High Band** (green tower), **Body Cam** (green camera), and **Hide** (minus sign).

The interface is split into two main sections. The left section, titled **LPR Reads & Hits**, shows a large image of a silver car's rear with license plate **5GRK583**. Below this, a horizontal scroll bar displays a list of license plate reads: #124 (5J580), #125 (6BCZ915), #126 (5ANZ700), #127 (5GRK583), #128 (6DRR407), #129 (6RFU666), and #130 (5XMA). The read **5GRK583** is highlighted. Below the scroll bar, there are navigation buttons: **Prev Hit** (left arrow), **Next Hit** (right arrow), **Dismiss** (eye with slash), and **Confirm** (eye). A text box indicates a **Fuzzy 1 match: 5GRK583 (CA) Reported Stolen**. A **Search** button is at the bottom right of this section.

The right section, titled **Live LPR**, shows two live video feeds. The top feed, labeled **Road Right**, shows the rear of the silver car with license plate **5GRK583**. The bottom feed, labeled **Road Left**, shows the same car from a different angle. At the bottom of the right section, there are three buttons: **Road/Park** (with a car icon), **Day/Night** (with sun and moon icons), and **Hotlist DB** (with a magnifying glass icon).

# Data911<sup>®</sup>

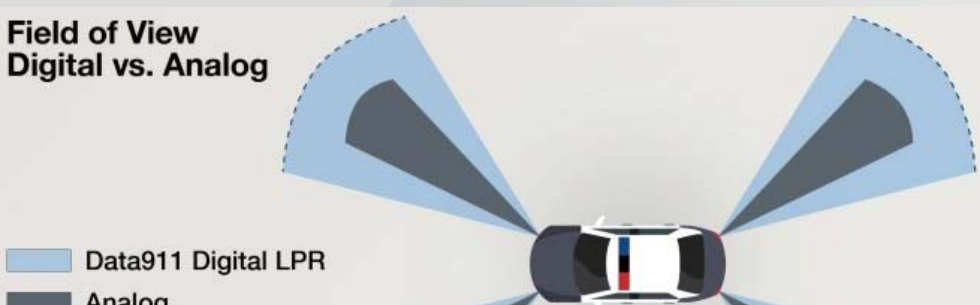
## Verus

### HD Digital Video - Automated License Plate Recognition (LPR)



- Integrated with our digital video software
- UI can alternate between 6 cameras
- Wider Field-of-View with HD Cameras

Field of View  
Digital vs. Analog



# Data9II®

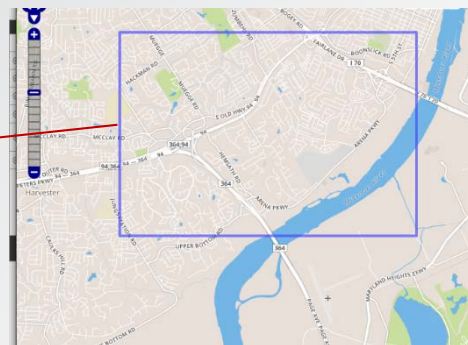
# Verus

## HD Digital Video - Automated License Plate Recognition (LPR)

The screenshot displays the Data9II Verus Server 3.0.1.3 interface. On the left, a map shows a street grid with several license plate numbers highlighted in red boxes. A red line connects one of these boxes to a larger, detailed view on the right. This detailed view includes a map of the same area, a photograph of a white vehicle with license plate 8P80249, and a table of LPR details.

LPR Details	
Plate Read:	8P80249
Hotlist Match:	None
Read By:	Unknown
Read Time:	Jun 22, 2011 at 4:35 PM
Location:	37.626088° N, 122.08059° W heading SE (150.2°)
Expires:	Jan 1, 2030
Options:	<input type="button" value="Export"/> <input data-bbox="1213 1198 1291 1218" type="button" value="Expiration..."/>

reads available on map, showing Lat/Long, Date/Time  
ch a geographical area by highlighting the map  
Location and Date/Time range



# ata9II®

## *Verus*



### HD Digital Video - Automated License Plate Recognition (LPR)



Configure multiple Hotlists

LPR Hotlists are automatically downloaded to the vehicles

LPR reads are automatically uploaded from the vehicles

Configurable retention period for LPR reads

Uses Digital Video box only and in-vehicle computer, no additional computer needed to support LPR engine

Simple LPR camera installation with Ethernet cabling for up to 6 cameras

Date/Time, Officer, Lat/Long, Direction of travel, Plate Photo, Vehicle Photo

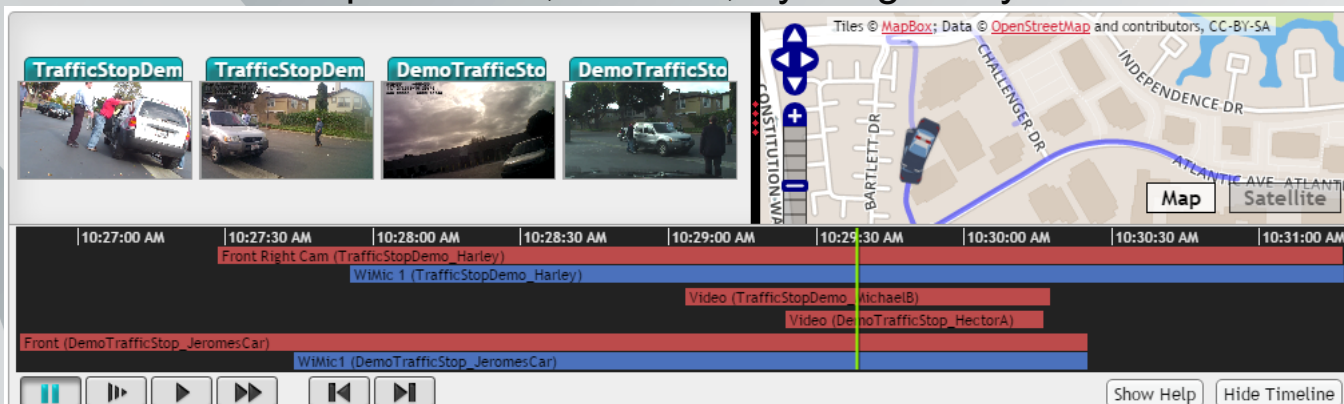
Configurable to automatically start recording on a hotlist hit

# ata9II®

# Verus

## Verus Video Management – New Features

- ▶ Collections – Multiple Videos, Sources, Syncing ability



- ▶ Uploading from any video source, drag & drop importing
- ▶ Verus version control and software updates from the server
- ▶ Media Output Configuration, export multiple videos/audio to MP4 file

Media Export	
Available Export Types:	Original evidence with browser-based player <input checked="" type="checkbox"/> Enabled <input checked="" type="radio"/> Default
	Original evidence with VidPlayer (MDV2 only) <input checked="" type="checkbox"/> Enabled <input type="radio"/> Default
	DVD-Video <input checked="" type="checkbox"/> Enabled <input type="radio"/> Default
Available Export Targets:	Direct Download (.zip or .iso) <input checked="" type="checkbox"/> Enabled <input checked="" type="radio"/> Default
	Put in Export Path <input checked="" type="checkbox"/> Enabled <input type="radio"/> Default
	Send to Primera Writer <input checked="" type="checkbox"/> Enabled <input type="radio"/> Default
	Send to DVD-R attached to server <input type="checkbox"/> Enabled <input type="radio"/> Default

**ata9II<sup>®</sup>**

***Verus***

**HD Digital Video Recorder**

***Questions***