



MediaCAST
by Inventive Technology

Encoding Digital Media

Support: support@inventivetec.com | 800.474.5128x3

Learning Objectives

Cart Operation	→	Become familiar with all cart components, their purpose and operation
Profile Selection	→	Understand the various profiles and their usage
Encoding	→	Encoding and saving media from various input source types to On Location Cart

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OnLocation™ Cart

- ▶ Mobile cart can be used to encode DVD, VHS or camera content
 - Output can be:
 - File
 - Live stream (Digital TV channel)
 - Both
- ▶ Cart contains:
 - Mounted camera
 - PC with an encoding card
 - DVD/VHS deck
 - Wireless microphone system (optional)
 - Drawer for secure storage



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OnLocation Cart Login

Getting Started

- ▶ Connect to network & power
- ▶ Open the front (glass) door
- ▶ Open the encoder drop-down panel and press the PC power switch
- ▶ Power on DVD deck, do **not** use the computer DVD drive
- ▶ Login using the credentials provided in training



Profiles

- ▶ Profiles are read-only templates
- ▶ Each Profile is used for different encoding purposes
- ▶ An encoding session consists of numerous settings, conveniently bundled into Profiles available on the desktop



Profiles (cont.)

- ▶ Think about the context of your encoding session before selecting:
 - If the resource is viewed outside of the network, *Capture Multi* will scale to the viewers' bandwidth
 - *Capture Long* can be used for titles longer than 2.25 hours



Usage Examples

Profile	Purpose(s)
Capture-DVD	<ul style="list-style-type: none"> Creates a file to be uploaded (future on-demand viewing) Used when higher quality is desired
Capture-Multi	<ul style="list-style-type: none"> Creates a file to be uploaded (future on-demand viewing) Beneficial for home access or sub Gb/s conditions on WAN
Capture-Long	<ul style="list-style-type: none"> Creates a file to be uploaded (future on-demand viewing) Beneficial when source duration will yield an output greater than 2 GB (approximately 2.5 hours)
Live-DVD	<ul style="list-style-type: none"> Live Broadcast to a Digital TV Channel Future on-demand viewing (optional)
Live-Multi	<ul style="list-style-type: none"> Live Broadcast to a Digital TV Channel Future on-demand viewing (optional) Beneficial for home access or sub Gb/s conditions on WAN
Morning Announcements	<ul style="list-style-type: none"> Live Broadcast to a Digital TV Channel Use multiple source



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Profile Parameters

Desktop Shortcut	Quality	Bitrate(s)	File Size (1 hour)
Capture-DVD	DVD	2 Mbps	880 MB
Capture-Multi	Variable	128, 384, & 1100 Kbps	645 MB
Capture-Long	VHS	1500 Kbps	545 MB
Live-DVD	DVD	2 Mbps	880 MB
Live-Multi	Variable	128, 384, & 1100 Kbps	645 MB
Morning Announcements	Variable	128, 384, & 1100 Kbps	545 MB
Compared to:			
MPEG-2	DVD	5 Mbps	2.2 GB



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OnLocation Cart Remote

- ▶ The DVD deck has many inputs (sources) and sometimes the input must be adjusted
- ▶ Press the *Input Select* button on the remote to switch input sources between L1, L2, and L3
 - **Note:** Some DVD decks will automatically switch to an active source (e.g., the camera) when you have ejected the disc and tape
 - Always return the DVD/VHS remote control to the cart drawer



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Encoding

- ▶ Start the session by double-clicking one of the profile icons on the desktop
- ▶ Click the Monitor Source button in the toolbar  in order to view the source
- ▶ Start the source to be encoded using the VCR remote controls
- ▶ Click the *Start* button in the encoding Profile



Encoding (cont.)

- ▶ Encoding is done in real time
- ▶ To set a duration, click *Trigger > Duration*, before clicking the *Start* button
 - No aspect of MediaCAST training should be construed as permission to encode any specific file. Make sure your organization has clear policies for all managers on whether or not content can be recorded, and how long it can be retained.



Encoding (cont.)

- ▶ Output:
C:\videostorage\newvideo.wmv
- ▶ A shortcut to the *Video Storage* folder is on the desktop
- ▶ Rename the file:
 - Do not use apostrophes or illegal characters in the new filename. i.e.: ? ! @ # \$ % ^ & * + ~ / \
 - Do not overwrite the file extension (.wmv)



Encoding Adjustments

- ▶ Occasionally video will need to be adjusted for encoding (*Brightness or Cropping*)
- ▶ Many sources have static on the edge that can be cropped out
- ▶ Use the controls on the *Video Process* tab



Encoding Adjustments (cont.)

- ▶ Occasionally, the audio levels will need to be adjusted when encoding
- ▶ Check audio levels by clicking the meter in the toolbar near the top of the page
- ▶ Use the sliders on the *Audio Levels* tab to adjust

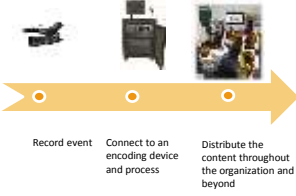


Process Review



Pre-recorded Events

- ▶ Capture the event using any camera whose output is compatible with the inputs on the DVD deck
- ▶ Connect the camera to the DVD deck in the OnLocation cart and start the source playback
- ▶ Encode using one of the capture profiles



Record event

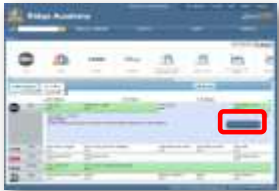
Connect to an encoding device and process

Distribute the content throughout the organization and beyond

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Recording Digital TV


- ▶ Managers + may record programming
- ▶ Click a program in the TV Guide to set up a recording
- ▶ You must select a blue or green channel (an active live TV stream)
- ▶ Managers + may adjust live TV stream to a gray channel that is part of client's cable TV package



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Recording Digital TV (cont.)

- ▶ Metadata and digital rights can be entered using the Upload Wizard
- ▶ Please consult your organization's policy on recording, prior to using this feature
 - No aspect of MediaCAST training should be construed as permission to record programming. Make sure your organization has clear policies for all managers on whether content can be recorded, and how long it can be retained.



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Getting Help

- ▶ Contact your local help desk
 - They will be aware of local network/power status
- ▶ Tutorial videos available via the *HELP* link at top/right
- ▶ Contact Technical Support:
support@inventivetec.com or 800.474.5128x3



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