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Canopus DVStorm DV Editing Technology

Connect i.LINK Cable
to IEEE 1394 connector on Camera & DVStorm



DVStorm –
IEEE 1394 connection transfers DV formatted data to Hard Drive



DV Camera –
CCD (Charge Coupled Device) Chips
Capture in DV Format
(5 to 1 compression
NTSC YUV 4:1:1
PAL YUV 4:2:0)



Editing –

Software DV Codec On DVStorm Converts DV Formatted data to uncompressed YUV 4:2:2 format



DV / Analog Output

YUV 4:2:2 to → **Analog Output** -
Outputs best analog quality
All Real-Time!

YUV 4:2:2 to → **DV Output -**
Hardware DV Codec Encodes data in Compressed DV Format
All Real –Time!

StormEdit Software edits in YUV 4:2:2
- All still images and titles imported into StormEdit are in 4:2:2 format
- YUV 4:2:2 provides higher color information giving user the best quality for the price

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Competitor's DV Editing Technology

Connect i.LINK Cable
to IEEE 1394 connector on Camera & OHCI board



Editing card –
IEEE 1394 connection transfers DV formatted data to Hard Drive



DV Camera –
CCD (Charge Coupled Device) Chips
Capture in DV Format
(5 to 1 compression,
NTSC YUV 4:1:1
PAL YUV 4:2:0)



Editing –

C-Cube chip - DV Video with transitions and titles added is converted to RGB (hardware or software)

RGB Format



DV / Analog Output

RGB to Analog → **Analog Output** - Outputs Real-Time

RGB to AVI (Render) then → **Output to DV -** Hardware DV Codec Encodes data in AVI file – Must Render!

Premiere Editing Software edits in RGB
- All still images and titles imported into Premiere are in RGB format
- Could create color distortion problems

Important Note:
- RGB offers limited dynamic range versus YUV
- YUV is the standard native video format
- Canopus maintains YUV format throughout the editing process

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Canopus DVStorm Analog Editing Technology

Connect S-Video or Composite
connector on Camera & DVStorm



DVStorm –
Hardware DV Codec encodes analog data into DV Format and transfers to Hard Drive



Analog Camera –
Video to analog tape



DV / Analog Output

Editing –

Software decoder changes DV video to YUV 4:2:2



YUV 4:2:2 to Analog
Via Analog encoder/decoder

Analog Output -
Outputs best analog quality
All Real-Time!

YUV 4:2:2

Output to DV -
Hardware DV Codec Encodes data in Compressed DV format
All Real –Time!

StormEdit Software edits in YUV 4:2:2 (Transitions, still images, titles…)
- All still images and titles imported into StormEdit are in 4:2:2 format
- YUV 4:2:2 provide higher color information giving user the best quality for the price
- Premiere Plug-in – All Canopus 2D transitions and filters edit in YUV 4:2:2 format

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Competitor's Analog Editing Technology

Connect S-Video or Composite
on Camera to editing board



Editing card –
C-Cube Chip compresses to MPEG-2 and stores on Hard Drive



Analog Camera –
Video to analog tape



Editing –

C-Cube chip – Decodes from MPEG-2 to RGB

RGB



Premiere Editing Software
edits in RGB

Analog Output

RGB to

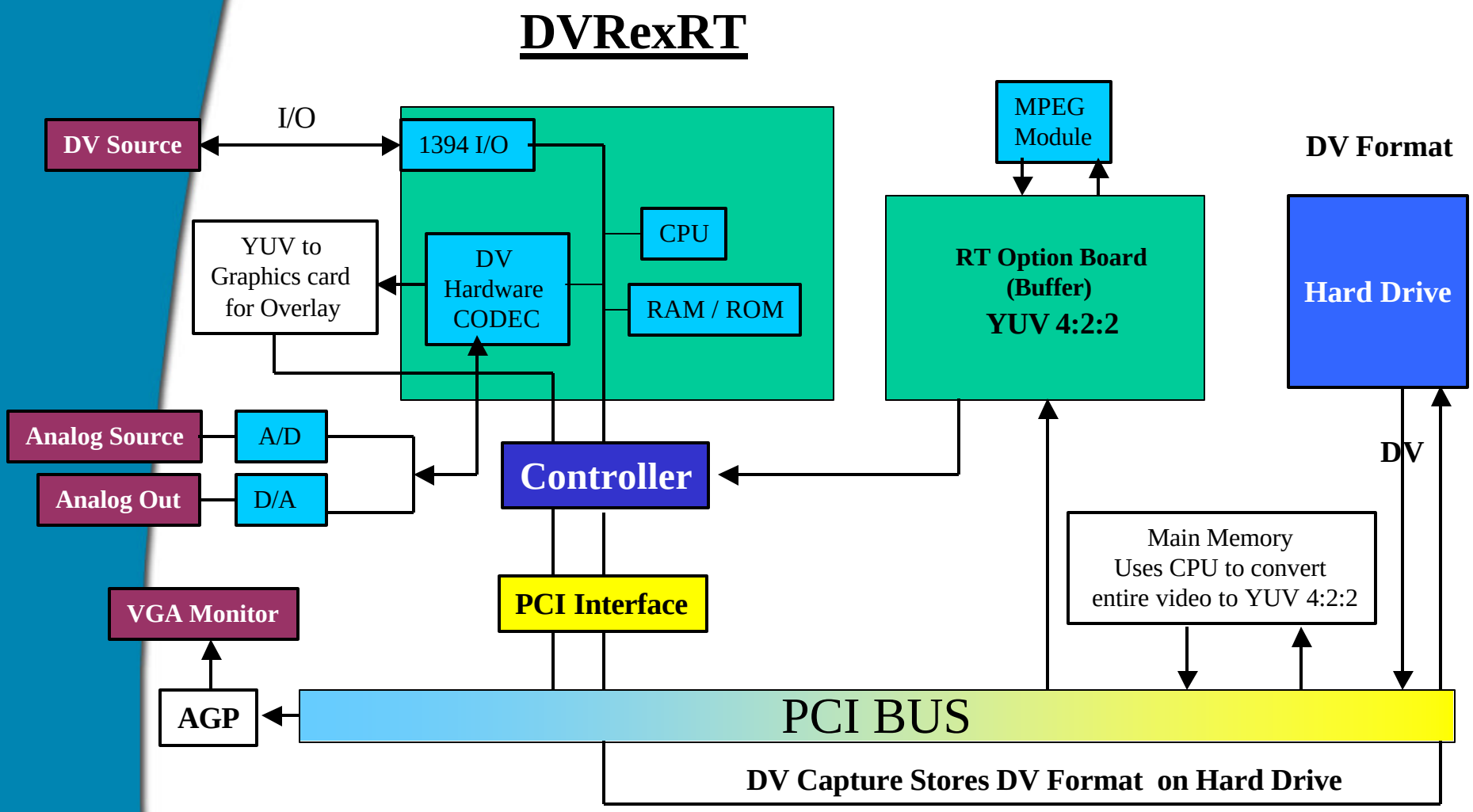
Analog Output -
Outputs Real-Time

Important Note:

- Analog captured video creates a number of artifacts generated by A/D & D/A conversions
- MPEG data is highly compressed limiting accurate frame by frame editing
- RGB offers limited dynamic range versus YUV
- YUV is the standard native video format
- Canopus maintains YUV format throughout the editing process

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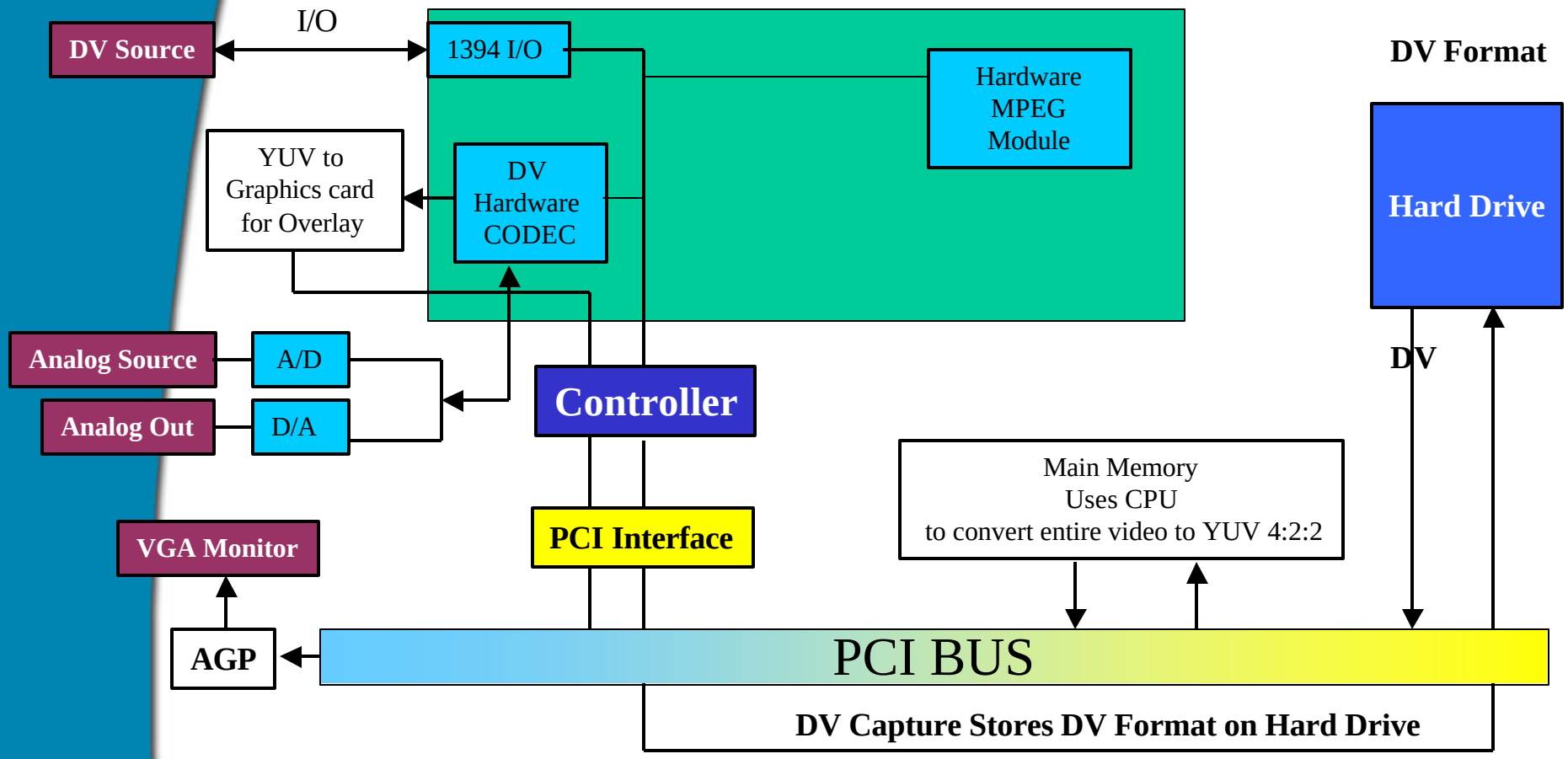
DVRexRT DV Hardware Technology



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DVStorm DV Hardware Technology

DVStorm



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