

AFD data flow

Version 1.12, May 1, 2013_

Encoda to AFD (SD)

Value	Description	AFD/AR
Blank	not specified	0000/0
W	16x9	1000/1
16	16x9	1000/1
14	14x9	1011/0
4	4x3	1001/0
1	4x3	1001/0
2	16x9	1010/0
3	14x9	1011/0
5	4x3 protect 14x9	1011/0
6	16x9 prtct 14x9	1011/0
7	4x3 full protect	1001/0
All others		0000/0

Encoda to AFD (HD)

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Value	Description	AFD/AR
Blank	not specified	0000/0
W	16x9	1010/1
16	16x9	1010/1
14	14x9	1011/1
4	4x3	1001/1
1	4x3	1001/1
2	16x9	1010/1
3	14x9	1011/1
5	4x3 protect 14x9	1011/1
6	16x9 prtct 14x9	1011/1
7	4x3 full protect	1001/1
All others		0000/0
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4x3 coded frame AFD description

AFD	Description
0010	16x9 image as letterbox at top
0011	14x9 image as letterbox at top
0100	>16x9 image as letterbox
1000	4x3 image full frame
1001	4x3 image full frame
1010	16x9 image as letterbox
1011	14x9 image as letterbox
1101	4x3 image with alt. 14x9 center
1110	16x9 image with alt. 14x9 cntr as letterbox
1111	16x9 image with alt. 4x3 center as letterbox

16x9 coded frame AFD description

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AFD	Description
0010	16x9 image full frame
0011	14x9 image as pillarbox
0100	>16x9 image as letterbox
1000	16x9 image full frame
1001	4x3 image as pillarbox
1010	16x9 image full frame protected
1011	14x9 image as pillarbox
1101	4x3 image with alt. 14x9 cntr as pillarbox
1110	16x9 image with alt. 14x9 center
1111	16x9 image with alt. 4x3 center

Up conversion description

Name	Description	
Anamorphic	Horizontal stretch	
Crop	Chop top/bottom, some black side	
Full	Chop top/bottom, no black sides	
Pillar	Black on sides	
other	same as pillar	

Down conversion description

Name	Description	
Anamorphic	Horizontal squeeze	
Crop	Chop sides, some black top/bottom	
Full	Chop sides, no black top/bottom	
Letter	Black top/bottom	
other	same as letter	

SD-SD ARC description

Name	Description	
Anamorphic	pass	
Crop	H stretch, V shrink, chop side, black top/bottom	
Full	H stretch, chop sides	
Letter	Letter V shrink, black top/bottom	
other	pass	

1.9

Moved "AFD to VFC" block from Director to MediaPort.

Included per frame AFD as source to up/down conversion mode. (PM-17, PM-132)

Added SD-SD ARC (PM-15)

SD clips with 16x9 AR now ignore VFC and always anamorphic up convert

The 8/0 entry in "AFD to VFC (SD)" changed from pillar to none. This allows the player_up_vfc to select the mode.

The 8/1 entry in "AFD to VFC (HD)" changed from letter to none. This allows the player down vfc to select the mode.

Added A/53 AFD to Clip/Frame AFD. (PM-124)

Added player 4x3 afd and player 16x9 afd to "Tap AFD" box. (PM-126)

Up/down converted outputs no longer insert AFD derived solely from player default VFC.

Added clarification to some priority boxes.

1.10

Split out "AFD" box from "Clip/Frame AFD" so that "VFC to AFD" can get AR from valid clip/frame AFD.

Replaced column sd/hd with AR in "VFC to AFD"

Converted outputs now always get an AFD.

Added "SD VFC" box in support of new sdArc setting.

sdArc setting went from off/on to off/4x3/16x9 (supports SD-SD arc from 4x3 to 16x9) (old 'on' setting is same as new '4x3' setting)

1.11: Added note 4 regarding ignoring RP186AFD.

1.12: Do not infer AFD on converted outputs (Changed HD AFD and SD AFD tables). Set a native AFD if want AFD output for clips without AFD.