

## AFD SD code and description

Active Format	Illustration in a 4:3 coded frame	Description
AFD = '0010' Box 16:9 (top)		Image with a 16:9 aspect ratio as letterbox at the top of a 4:3 coded frame.
AFD = '0011' Box 14:9 (top)		Image with a 14:9 aspect ratio as letterbox at the top of a 4:3 coded frame.
AFD = '0100' Box >16:9 (center)		Image with aspect ratio greater than 16:9 as a vertically centered letterbox in a 4:3 coded frame.
AFD = '1000' Full frame		Image is full frame, with an aspect ratio that is the same as the 4:3 coded frame.
AFD = '1010' 16:9 (center)		Image with a 16:9 aspect ratio as a vertically centered letterbox in a 4:3 coded frame.
AFD = '1011' 14:9 (center)		Image with 14:9 aspect ratio as a vertically centered letterbox in a 4:3 coded frame.
AFD = '1101' 4:3 (with alternative 14:9 center)		Image with a 4:3 aspect ratio and with an alternative 14:9 center in a 4:3 coded frame.
AFD = '1110' 16:9 (with alternative 14:9 center)		Image with a 16:9 aspect ratio and with an alternative 14:9 center as a vertically centered letterbox in a 4:3 coded frame.
AFD = '1111' 16:9 (with alternative 4:3 center)		Image with a 16:9 aspect ratio and with an alternative 4:3 center as a vertically centered letterbox in a 4:3 coded frame.

# SD -> HD Up Conversion

Active Format	Illustration in a 4:3 coded frame	Up Convert	Up Convert (Alternative)
AFD = '0010' Box 16:9 (top)			
AFD = '0011' Box 14:9 (top)			
AFD = '0100' Box >16:9 (center)			
AFD = '1000' Full frame			
AFD = '1010' 16:9 (center)			
AFD = '1011' 14:9 (center)			
AFD = '1101' 4:3 (with alternative 14:9 center)			
AFD = '1110' 16:9 (with alternative 14:9 center)			
AFD = '1111' 16:9 (with alternative 4:3 center)			

**SD -> SD ARC Conversion**

Active Format	Illustration in a 4:3 coded frame	SD ARC Convert	SD ARC(Alternative)
AFD = '0010' Box 16:9 (top)			
AFD = '0011' Box 14:9 (top)			
AFD = '0100' Box >16:9 (center)			
AFD = '1000' Full frame			
AFD = '1010' 16:9 (center)			
AFD = '1011' 14:9 (center)			
AFD = '1101' 4:3 (with alternative 14:9 center)			
AFD = '1110' 16:9 (with alternative 14:9 center)			
AFD = '1111' 16:9 (with alternative 4:3 center)			

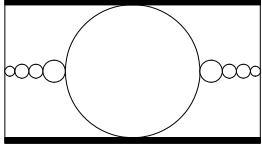
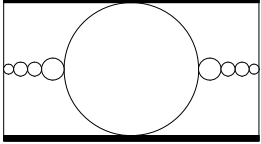
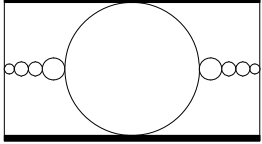
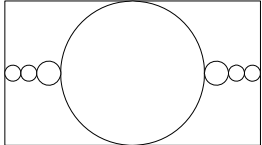
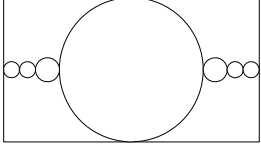
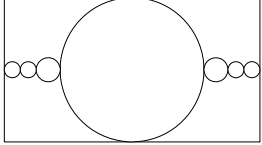
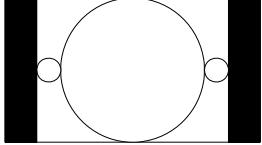
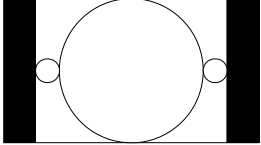
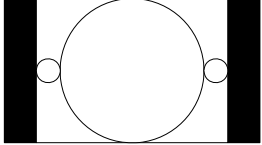
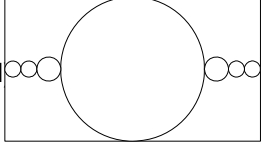
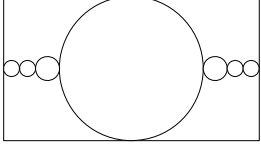
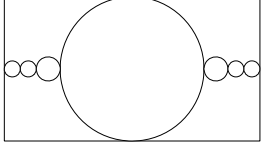
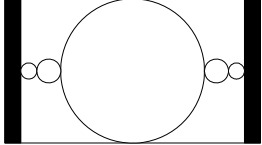
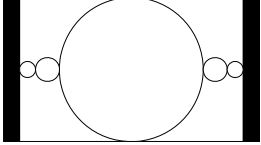
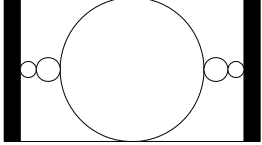
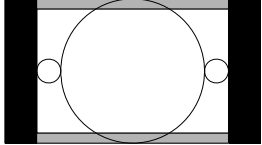
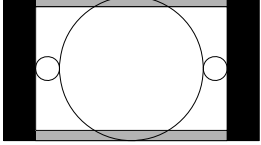
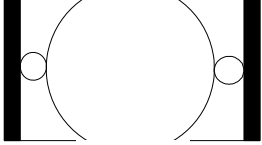
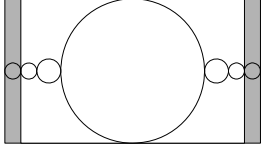
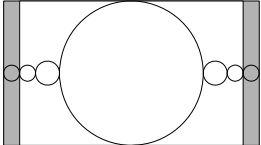
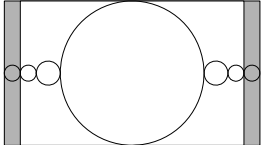
## AFD HD code and description

Active Format	Illustration in a 16:9 coded frame	Description
AFD = '0100' Box >16:9 (center)		Image with aspect ratio greater than 16:9 as a vertically centered letterbox in a 16:9 coded frame.
AFD = '1000' Full frame		Image is full frame, with an aspect ratio that is the same as the 16:9 coded frame.
AFD = '1001' 4:3 (center)		Image with a 4:3 aspect ratio as a horizontally centered pillarbox image in a 16:9 coded frame.
AFD = '1010' 16:9 (with complete 16:9 image protected)		Image is full frame, with a 16:9 aspect ratio and with all image areas protected.
AFD = '1011' 14:9 (center)		Image with a 14:9 aspect ratio as a horizontally centered pillarbox image in a 16:9 coded frame.
AFD = '1101' 4:3 (with alternative 14:9 center)		Image with a 4:3 aspect ratio and with an alternative 14:9 center as a horizontally centered pillarbox image in a 16:9 coded frame.
AFD = '1110' 16:9 (with alternative 14:9 center)		Image with a 16:9 aspect ratio and with an alternative 14:9 center in a 16:9 coded frame.
AFD = '1111' 16:9 (with alternative 4:3 center)		Image with a 16:9 aspect ratio and with an alternative 4:3 center in a 16:9 coded frame.

# HD -> SD ARC Conversion

Active Format	Illustration in a 16:9 coded frame	Down Convert	Down Convert (Alternative)
AFD = '0100' Box >16:9 (center)			
AFD = '1000' Full frame			
AFD = '1001' 4:3 (center)			
AFD = '1010' 16:9 (with complete 16:9 image protected)			
AFD = '1011' 14:9 (center)			
AFD = '1101' 4:3 (with alternative 14:9 center)			
AFD = '1110' 16:9 (with alternative 14:9 center)			
AFD = '1111' 16:9 (with alternative 4:3 center)			

# HD -> HD Cross Conversion

Active Format	Illustration in a 16:9 coded frame	Cross Convert	Cross Convert(Alternative)
AFD = '0100' Box >16:9 (center)			
AFD = '1000' Full frame			
AFD = '1001' 4:3 (center)			
AFD = '1010' 16:9 (with complete 16:9 image protected)			
AFD = '1011' 14:9 (center)			
AFD = '1101' 4:3 (with alternative 14:9 center)			
AFD = '1110' 16:9 (with alternative 14:9 center)			
AFD = '1111' 16:9 (with alternative 4:3 center)	