

AJA Path Delay Chart

The following table summarizes path delays for AJA Video System Mini-Converter, Frame Synchronizers and R-Series Card Modules

Mini-Converters

PRODUCT	DELAY	NOTES
ADA4	< 3ms	
C10SP	370ns	
C10PS	315ns	
D4E	1.6us	
D5CE	1.6us	
D5D	1.3us	2-line comb mode
D5D	1.3us + 1line=64.9us	3-line comb mode
D5DA	200ns	
D10C	1.2us	
D10A	1.5us	
D10CE	2.5us	
D10C2	2.5us	
D10CEA	2.5us video 1.0ms audio	
D10AD	1 line	Regardless of format
HD10C	150ns	
HD5DA	50ns	
HD10C2	< 1us	
HD10A	< 1us	
HD10MD3	1 frame	

Because it matters.



PRODUCT	DELAY	NOTES
HD10AVA	1 ms A/V Video: less than 250 pixels Audio: 10 video lines or less depending on video format.	The faster the line rate, the longer the audio delay becomes due to a shorter blanking period where we transfer the audio packets.
HD10AM	HD mode video 7us, SD mode video 19us, disembed 290us, embed (SRC off) 290us, embed (SRC on) 1500us	
HD10AMA	D mode video 7us, SD mode video 19us, disembed 900us, embed (SRC off)1200us, embed (SRC on) 2.5ms	
HA5	< 1 line	
HI5	SD mode < 1 Line HD mode 1 to 3 Lines	
Hi5-3G	10 lines, 1 field for .psf	
Hi5-3D	1-2 frames	depending upon function
HDP2	1.5 frames-Audio, 1-2 frames-Video	Depending upon framerate
3GM	1 field	1-2 lines for 50P
UDC	1 frame	

Frame Synchronizers

PRODUCT	DELAY	NOTES
FS1	1 frame	2 frames with "Freeze"
FS2	2 frames	Can be up to 4 frames depending on function

R-Series Card Modules

PRODUCT	DELAY	NOTES
R20D R20D-F	3 lines+2.2us=195.1us 0=1 Frame	5 line aperture decoder adjustable w/FSG module
R20E R20E-F	6.2us 0=1 Frame	adjustable w/FSG module
R5CE	1.6us	Video Out
R44E	1.6us	
R20CE	2.6us	
R20AD	1 line	Regardless of format