

List of Supported Source Material for NC series HDS/1 input (Cinema input)

08.Nov.2006

Source Standard	System nomenclature	Acceptable	Samples per active line (S/AL)	Active lines per frame	Frame rate (Hz)	Scanning format	Interface sampling frequency fs (MHz)	Samples per total line (S/TL)	Total lines per frame	Remarks
SMPTE 274M	1 1920 x 1080/60/P	No	1920	1080	60	Progressive	148.5	2200	1125	
	2 1920 x 1080/59.94/P	No	1920	1080	60/1.001	Progressive	148.5/1.001	2200	1125	
	3 1920 x 1080/50/P	No	1920	1080	50	Progressive	148.5	2640	1125	
	4 1920 x 1080/60/I	Yes	1920	1080	30	Interlace	74.25	2200	1125	Requires source to be encoded with 3:2 Pull-Down, and requires time code information
	5 1920 x 1080/59.94/I	Yes	1920	1080	30/1.001	Interlace	74.25/1.001	2200	1125	Requires source to be encoded with 3:2 Pull-Down, and requires time code information
	6 1920 x 1080/50/I	Yes	1920	1080	50	Interlace	74.25	2640	1125	Requires source to be encoded with 2:2 Pull-Down, and assumes field one (1) dominance
	7 1920 x 1080/30/P	Yes	1920	1080	30	Progressive	74.25	2200	1125	
	8 1920 x 1080/29.97/P	Yes	1920	1080	30/1.001	Progressive	74.25/1.001	2200	1125	
	9 1920 x 1080/25/P	Yes	1920	1080	25	Progressive	74.25	2640	1125	
	10 1920 x 1080/24/P	Yes	1920	1080	24	Progressive	74.25	2750	1125	
	11 1920 x 1080/23.98/P	Yes	1920	1080	24/1.001	Progressive	74.25/1.001	2750	1125	
SMPTE 211	12 1920 x 1080/30(sF)	Yes	1920	1080	30	Progressive(sF)	74.25	2200	1125	
	13 1920 x 1080/29.97(sF)	Yes	1920	1080	30/1.001	Progressive(sF)	74.25/1.001	2200	1125	
	14 1920 x 1080/25(sF)	Yes	1920	1080	25	Progressive(sF)	74.25	2640	1125	
	15 1920 x 1080/24(sF)	Yes	1920	1080	24	Progressive(sF)	74.25	2750	1125	
	16 1920 x 1080/23.98(sF)	Yes	1920	1080	24/1.001	Progressive(sF)	74.25/1.001	2750	1125	
SMPTE 295M	1 1920 x 1080/50/P	No	1920	1080	50	Progressive	148.5	2376	1250	
	2 1920 x 1080/50/I	Yes	1920	1080	25	Interlace	74.25	2376	1250	Requires source to be encoded with 2:2 Pull-Down, and assumes field one (1) dominance
SMPTE 296M	1 1280 x 720/60	Yes	1280	720	60	Progressive	74.25	1650	750	
	2 1280 x 720/59.94	Yes	1280	720	60/1.001	Progressive	74.25/1.001	1650	750	
	3 1280 x 720/50	Yes	1280	720	50	Progressive	74.25	1980	750	
	4 1280 x 720/30	Yes	1280	720	30	Progressive	74.25	3300	750	
	5 1280 x 720/29.97	Yes	1280	720	30/1.001	Progressive	74.25/1.001	3300	750	
	6 1280 x 720/25	Yes	1280	720	25	Progressive	74.25	3960	750	
	7 1280 x 720/24	Yes	1280	720	24	Progressive	74.25	4125	750	
	8 1280 x 720/23.98	Yes	1280	720	24/1.001	Progressive	74.25/1.001	4125	750	

Protocol Standard	System nomenclature	Acceptable	Samples per active line (S/AL)	Active lines per frame	Frame rate (Hz)	Scanning format	Interface sampling frequency fs (MHz)	Samples per total line (S/TL)	Total lines per frame	Remarks
SMPTE 292 Dual-Link	2048 x 1080/30/P	Yes	2048	1080	30	Progressive	74.25	-	-	
	2048 x 1080/29.97/P	Yes	2048	1080	30/1.001	Progressive	74.25/1.001	-	-	
	2048 x 1080/25/P	Yes	2048	1080	25	Progressive	74.25	-	-	
	2048 x 1080/24/P	Yes	2048	1080	24	Progressive	74.25	-	-	
	2048 x 1080/23.98/P	Yes	2048	1080	24/1.001	Progressive	74.25/1.001	-	-	
	2048 x 1080/30(sF)	Yes	2048	1080	30	Progressive(sF)	74.25	-	-	
	2048 x 1080/29.97(sF)	Yes	2048	1080	30/1.001	Progressive(sF)	74.25/1.001	-	-	
	2048 x 1080/25/P(sF)	Yes	2048	1080	25	Progressive(sF)	74.25	-	-	
	2048 x 1080/24(sF)	Yes	2048	1080	24	Progressive(sF)	74.25	-	-	
	2048 x 1080/23.98(sF)	Yes	2048	1080	24/1.001	Progressive(sF)	74.25/1.001	-	-	
	1280 x 1024/60/P	Yes	1280	1024	60	Progressive	74.25	-	-	
	1280 x 1024/59.94/P	Yes	1280	1024	60/1.001	Progressive	74.25/1.001	-	-	
	1280 x 1024/50/P	Yes	1280	1024	50	Progressive	74.25	-	-	
	1280 x 1024/48/P	Yes	1280	1024	48	Progressive	74.25	-	-	
	1280 x 720/72/P	Yes	1280	720	72	Progressive	74.25	-	-	

	Source format	# of Bits	Max Input late	Scan type	Color format	Progressing Path
Single-link	2048 x 1080	10	33.4	Progressive	4:2:2	DLP Cinema
Dual-link	2048 x 1080	10	22.27	Progressive	4:4:4	Standard Cinema

If signal color format was 4:2:2, you can input 2048x1080 25P signal and projector accept it.

But if signal color format was 4:4:4, you need two HD-SDI port (dual link : Use to both of A and B) to display 2048x1080 25P signal.

List of Supported Source Material for NC series DVI-D input

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Port Protocol	Source Format (1)	# of Bits	Vertical Rate	Clock Rate	Scan Type	Color Space	Processing Path (1)
DDWG DVI	640x480	8	60Hz	25.175MHz	Progressive	RGB	DLP Cinema
DDWG DVI	640x480	8	72Hz	31.500MHz	Progressive	RGB	DLP Cinema
DDWG DVI	800x600	8	60Hz	40MHz	Progressive	RGB	DLP Cinema
DDWG DVI	800x600	8	72Hz	50MHz	Progressive	RGB	DLP Cinema
DDWG DVI	1024x768	8	60Hz	65MHz	Progressive	RGB	DLP Cinema
DDWG DVI	1024x768	8	70Hz	75MHz	Progressive	RGB	DLP Cinema
DDWG DVI	1280x1024(2)	8	50Hz	89.970MHz	Progressive	RGB	DLP Cinema
DDWG DVI	1280x1024	8	60Hz	108MHz	Progressive	RGB	DLP Cinema
DDWG DVI	1920x1080(3)	8	60Hz	138.5MHz	Progressive	RGB	Standard DLP
DDWG DVI	2048x1080(3)	8	60Hz	122MHz	Progressive	RGB	Standard DLP

Note 1: VESA standard compliant

Note 2: Timing is extrapolated from VESA standard timing

Note 3: Listed under Detailed Timing. Native for DC2K based systems.

Port Protocol	Source Format	# of Bits	Vertical Rate	Clock Rate	Scan Type	Color Space	Processing Path (1)
Single Link DVI							
DDWG DVI	1920x1080	10	23-48Hz	-	Progressive	RGB	DLP Cinema
DDWG DVI	2048x1080	10	23-48Hz	-	Progressive	RGB	DLP Cinema
DDWG DVI	1920x1080	10	23-62Hz	-	Progressive	RGB	Standard DLP
DDWG DVI	2048x1080	10	23-58Hz	-	Progressive	RGB	Standard DLP
Twin Link DVI							
DDWG DVI	1920x1080	10	23-48Hz	-	Progressive	RGB	DLP Cinema
DDWG DVI	2048x1080	10	23-48Hz	-	Progressive	RGB	DLP Cinema
DDWG DVI	1920x1080	10	23-77Hz	-	Progressive	RGB	Standard DLP
DDWG DVI	2048x1080	10	23-72Hz	-	Progressive	RGB	Standard DLP