

CineLife+ supported video formats

This document provides information on supported video formats for Christie CineLife+ projection systems.

The range of available input selections depends on the projector model and/or input/output combinations.

The following inputs are supported for each configuration:

- Single input—HDMI, SDI, DisplayPort
- Dual input—HDMI, SDI, DisplayPort
- Quad input—SDI
- S2 IMB—IMB
- S4 IMB—IMB

HDMI video formats

The following image formats are supported by the two HDMI 2.0 inputs.

One-port 2D HD/2K and UHD/4K

The following one-port 2D HD/2K and UHD/4K HDMI 2.0 image formats are supported on each of the HDMI inputs.



24, 30, 60, and 120 Hz frame rates also include fractional 1/1.001 frame rates.

	Format	Cables	Frame rate (Hz)	Sampling	Bit-depth
HD	1920x1080	1	24, 25, 30, 50, 60, 120	Y'C _B C _R /RGB/ 4:4:4 Y'C _B C _R /4:2:2	8/10/12bpc
	2048x1080	1	24, 25, 30, 48, 50, 60, 120	Y'C _B C _R /RGB/ 4:4:4 Y'C _B C _R /4:2:2	8/10/12bpc
4K	3840x2160	1	24, 25, 30	Y'C _B C _R /RGB/ 4:4:4	8/10bpc
	3840x2160	1	24, 25, 30	Y'C _B C _R /4:2:2	8/10/12bpc
	3840x2160	1	50, 60	Y'C _B C _R /RGB/ 4:4:4	8bpc

Format	Cables	Frame rate (Hz)	Sampling	Bit-depth
3840x2160	1	50, 60	Y'C _B C _R /4:2:2	8/10/12bpc
4096x2160	1	24, 25, 30	Y'C _B C _R /RGB/4:4:4	8/10bpc
4096x2160	1	24, 25, 30	Y'C _B C _R /4:2:2	8/10/12bpc
4096x2160	1	50, 60	Y'C _B C _R /RGB/4:4:4	8bpc
4096x2160	1	50, 60	Y'C _B C _R /4:2:2	8/10/12bpc

One-port 2D 720p and 1080i

The following one-port 2D 720p and 1080i HDMI 2.0 image formats are supported on each of the HDMI inputs.



24, 30, 60, and 120 Hz frame rates also include fractional 1/1.001 frame rates.

	Format	Cables	Frame rate (Hz)	Sampling	Bit-depth	Notes
HD	1280x720	1	24, 25, 30, 50, 60	Y'C _B C _R /RGB/4:4:4 Y'C _B C _R /4:2:2	8/10/12 bpc	-
	1920x1080i	1	25, 30	Y'C _B C _R /RGB/4:4:4 Y'C _B C _R /4:2:2	8/10/12 bpc	1920x1080 interlaced (50/60 Hz field rate)

One-port 2D PC

The following one-port 2D HDMI 2.0 PC image formats are supported on each of the HDMI inputs.

	Format	Cables	Frame rate (Hz)	Sampling	Bit-depth
PC	640x480	1	60	RGB/4:4:4	8 bpc
	1280x800	1	60	RGB	8 bpc
	1280x960	1	60	RGB	8 bpc
	1280x1024	1	60, 75, 85*	Y'C _B C _R /RGB/4:2:2	8/10/12 bpc
	1280x1024	1	60, 75, 85*	RGB	8 bpc
	1440x900	1	60	RGB	8 bpc
	1680x1050	1	60	RGB	8 bpc
	1600x1200	1	60	RGB	8 bpc
	1920x1200	1	60	RGB	8 bpc

* The purpose of supporting these basic formats is to permit configuration of a source device that initially starts up outputting one of these basic formats. As the purpose is to support menu navigation, it is acceptable to display 75 Hz and 85 Hz frame rates at 60 Hz, dropping frames accordingly.

One-port 3D HD/2K

The following one-port 3D HDMI 2.0 image formats are supported on each of the HDMI inputs.



24, 30, and 60 Hz frame rates also include fractional 1/1.001 frame rates.

	Format	Cables	Frame rate (Hz)	Sampling	Bit-depth	Notes
HD	1280x720	1	50, 60	Y'C _B C _R /RGB/ 4:4:4 Y'C _B C _R /4:2:2	8/10/12bpc	Frame-packing/ top-and-bottom
	1920x1080	1	24, 25, 30, 50, 60	Y'C _B C _R /RGB/ 4:4:4 Y'C _B C _R /4:2:2	8/10/12bpc	Frame-packing
	2048x1080	1	24, 25, 30, 50, 60	Y'C _B C _R /RGB/ 4:4:4 Y'C _B C _R /4:2:2	8/10/12bpc	Frame-packing

One-port dual-input 3D HD/2K and UHD/4K

The following one-port dual-input 3D HDMI 2.0 image formats are supported where the indicated frame rate is per eye. Dual-input 3D is a fixed configuration where HDMI 1 = left eye input and HDMI 2 = right eye input.



24, 30, and 60 Hz frame rates also include fractional 1/1.001 frame rates.

	Format	Cables	Frame rate (Hz)	Sampling	Bit-depth
HD	1280x720	2	24, 25, 30, 60	Y'C _B C _R /RGB/ 4:4:4 Y'C _B C _R /4:2:2	8/10/12bpc
	1920x1080	2	24, 25, 30, 60	Y'C _B C _R /RGB/ 4:4:4 Y'C _B C _R /4:2:2	8/10/12bpc
	2048x1080	2	24, 25, 30, 60	Y'C _B C _R /RGB/ 4:4:4 Y'C _B C _R /4:2:2	8/10/12bpc
4K	3840x2160	2	24, 25, 30	Y'C _B C _R /RGB/ 4:4:4	8/10bpc
	3840x2160	2	24, 25, 30	Y'C _B C _R /4:2:2	8/10/12bpc
	3840x2160	2	60	Y'C _B C _R /RGB/ 4:4:4	8bpc
	3840x2160	2	60	Y'C _B C _R /4:2:2	8/10/12bpc
	4096x2160	2	24, 25, 30	Y'C _B C _R /RGB/ 4:4:4	8/10bpc
	4096x2160	2	24, 25, 30	Y'C _B C _R /4:2:2	8/10/12bpc

Format	Cables	Frame rate (Hz)	Sampling	Bit-depth
4096x2160	2	60	Y'C _B C _R /RGB/ 4:4:4	8bpc
4096x2160	2	60	Y'C _B C _R /4:2:2	8/10/12bpc

SDI video formats

Each of the SDI inputs supports the following single-link 2D SD and HD image formats, single-link 2D HD and UHD/4K image formats, dual-link 2D SDI image formats, and quad-link 2D image formats.

Single-link 2D: SD, 720p and 1080i

The following one-port 2D SD, 720p, and 1080i image formats are supported on each of the SDI inputs.



- 24, 30, and 60 Hz frame rates also include fractional 1/1.001 frame rates.
- For 3Gb/s SDI Inputs only Level A is supported unless otherwise noted.
- For all 4K image formats, only 2SI subdivision is supported.

	Format	Cables	Frame rate (Hz)	Sampling	Bit-depth	Notes
SD	720x480	1	30	Y'C _B C _R /4:2:2	10 bpc	SD interlaced component at 270 Mb/s (ST 259 level C) interlaced (60 Hz field rate)
	720x576	1	25	Y'C _B C _R /4:2:2	10 bpc	SD interlaced component at 270 Mb/s (ST 259 level C) interlaced (50 Hz field rate)
HD	1280x720	1	24, 25, 30, 50, 60	Y'C _B C _R /4:2:2	10 bpc	HD 720p Y'C _B C _R component at 1.5 Gb/s (ST 292-1)
	1280x720	1	24, 25, 30, 50, 60	Y'C _B C _R /4:4:4(4)	10 bpc	HD 720p Y'C _B C _R /RGB component at 3.0 Gb/s (ST 425-1) level A
	1920x1080	1	25, 30	Y'C _B C _R /4:2:2	10 bpc	HD 1080i component at 1.5 Gb/s

Format	Cables	Frame rate (Hz)	Sampling	Bit-depth	Notes
					(ST 292-1) interlaced (50/60 Hz field rate)
2048x1080	1	25, 30	Y'C _B C _R /4:2:2	10 bpc	2K 1080i component at 1.5 Gb/s (ST 292-1) interlaced (50/60 Hz field rate)

One-port single-link 2D HD/2K and UHD/4K

The following one-port 2D HD and UHD/4K image formats are supported on each of the SDI inputs.



- 1920x1080 line progressive formats includes both 1920x1080 and 2048x1080.
- 3840x2160 line progressive formats include both 3840x2160 and 4096x2160.
- 24, 30, 48, and 60 Hz frame rates also include fractional 1/1.001 frame rates.
- For 3Gb/s SDI Inputs only level A is supported unless otherwise noted.
- For all 4K image formats only 2SI sub division is supported.

	Format	Cables	Frame rate (Hz)	Sampling	Bit-depth	Notes
HD	1920x1080	1	24, 25, 30	Y'C _B C _R /4:2:2	10bpc	HD 1080p component at 1.5Gb/s (ST 292-1)
	1920x1080	1	48, 50, 60	Y'C _B C _R /4:2:2	10bpc	HD 1080p component at 3.0Gb/s (ST 425-1) level A
	1920x1080	1	24, 25, 30	Y'C _B C _R /RGB/XYZ/4:4:4(4)	10bpc	HD 1080p Y'C _B C _R /RGB component at 3.0Gb/s (ST 425-1) level A and (ST 425-1) level B-DL
	1920x1080	1	24, 25, 30	Y'C _B C _R /RGB/XYZ/4:4:4(4)	12bpc	HD 1080p Y'C _B C _R /RGB component at 3.0Gb/s (ST 425-1) level A and (ST 425-1) level B-DL

	Format	Cables	Frame rate (Hz)	Sampling	Bit-depth	Notes
	1920x1080	1	24, 25, 30	Y'C'B'C'R/4:2:2(4)	12bpc	HD 1080p Y'C'B'C'R component at 3.0Gb/s (ST 425-1) level A and (ST 425-1) level B-DL
	1920x1080	1	48, 50, 60	Y'C'B'C'R/RGB/XYZ/4:4:4(4)	10bpc	HD 1080p Y'C'B'C'R/RGB component at 6.0Gb/s (ST 2081-10) mode 2 structure II
	1920x1080	1	48, 50, 60	Y'C'B'C'R/RGB/XYZ/4:4:4	12bpc	HD 1080p Y'C'B'C'R/RGB component at 6.0Gb/s (ST 2081-10) mode 2 structure III
4K	3840x2160	1	24, 25, 30	Y'C'B'C'R/4:2:2	10bpc	2160p Y'C'B'C'R component at 6.0Gb/s (ST 2081-10) mode 1 structure 1
	3840x2160	1	48, 50, 60	Y'C'B'C'R/4:2:2	10bpc	2160p Y'C'B'C'R/RGB component at 12.0Gb/s (ST 2082-10) mode 1 structure 1
	3840x2160	1	24, 25, 30	Y'C'B'C'R/RGB/XYZ 4:4:4(4)	10bpc	2160p Y'C'B'C'R/RGB component at 12.0Gb/s (ST 2082-10) mode 1 structure 2
	3840x2160	1	24, 25, 30	Y'C'B'C'R/RGB/XYZ 4:4:4	12bpc	2160p Y'C'B'C'R/RGB component at 12.0Gb/s (ST 2082-10) mode 1 structure 3
	3840x2160	1	24, 25, 30	Y'C'B'C'R/4:2:2(4)	12bpc	2160p Y'C'B'C'R component at 12.0Gb/s

Format	Cables	Frame rate (Hz)	Sampling	Bit-depth	Notes
					(ST 2082-10) mode 1 structure 4

Single-link 2D 3G level-B DL

The following single-link 2D 3G level-B DL SDI image formats are supported.



- 1920x1080 line progressive formats includes both 1920x1080 and 2048x1080.
- 24 and 30 Hz frame rates also include fractional 1/1.001 rates.

	Format	Cables	Frame rate (Hz)	Sampling	Bit-depth	Notes
HD	1920x1080	1	24, 25, 30	Y'C _B C _R /RGB/ 4:4:4(4)	12bpc	HD 1080p Y'C _B C _R /RGB component at 3.0Gb/s (ST 425-1) level B-DL
	1920x1080	1	24, 25, 30	Y'C _B C _R /4:2:2(4)	12bpc	HD 1080p Y'C _B C _R component at 3.0Gb/s (ST 425-1) level B-DL

Dual-link 2D HD/2K and UHD/4K

The following one-port dual-link 2D HD/2K and UHD/4K image formats are supported. Dual-link SDI is a fixed configuration.

- SDI 1 = link 1 of input 1
- SDI 2 = link 2 of input 1
- SDI 3 = link 1 of input 2
- SDI 4 = link 2 of input 2



- 1920x1080 line progressive formats includes both 1920x1080 and 2048x1080.
- 3840x2160 line progressive formats include both 3840x2160 and 4096x2160.
- 24, 30, 48, and 60 Hz frame rates also include fractional 1/1.001 rates.

	Format	Cables	Frame rate (Hz)	Sampling	Bit-depth	Notes
HD	1920x1080	2	48, 50, 60	Y'C _B C _R /RGB/ 4:4:4(4)	10 bpc	Y'C _B C _R /RGB component at dual-link 3 Gb/s (ST 425-3) level A structure II
	1920x1080	2	48, 50, 60	Y'C _B C _R /RGB/ 4:4:4	12 bpc	Y'C _B C _R /RGB component at

	Format	Cables	Frame rate (Hz)	Sampling	Bit-depth	Notes
						dual-link 3 Gb/s (ST 425-3) level A structure III
	1920x1080	2	48, 50, 60	Y'C _B C _R /4:2:2	12 bpc	Y'C _B C _R component at dual-link 3 Gb/s (ST 425-3) level A structure IV
	1920x1080	2	48, 50, 60	Y'C _B C _R /4:2:2(4)	12 bpc	Y'C _B C _R component at dual-link 3 Gb/s (ST 425-3) level A structure IV
4K	3840X2160	2	24, 25, 30	Y'C _B C _R /4:2:2	10 bpc	Y'C _B C _R component at dual-link 3 Gb/s (ST 425-3)
	3840X2160	2	48, 50, 60	Y'C _B C _R /4:2:2	10 bpc	Y'C _B C _R /RGB component at dual-link 6 Gb/s (ST 2081-11) mode 1
	3840X2160	2	24, 25, 30	Y'C _B C _R /RGB/4:4:4(4)	10 bpc	Y'C _B C _R /RGB component at dual-link 6 Gb/s (ST 2081-11) mode 1
	3840X2160	2	24, 25, 30	Y'C _B C _R /4:4:4	12 bpc	Y'C _B C _R component at dual-link 6 Gb/s (ST 2081-11) mode 1
	3840X2160	2	24, 25, 30	Y'C _B C _R /4:2:2	12 bpc	Y'C _B C _R component at dual-link 6 Gb/s (ST 2081-11) mode 1
	3840X2160	2	24, 25, 30	Y'C _B C _R /4:2:2(4)	12 bpc	Y'C _B C _R component at dual-link 6 Gb/s (ST 2081-11) mode 1

Quad-link 2D 2SI UHD/4K

The following one-port, quad-link 2D image formats are supported. The quad-link SDI is a fixed configuration.

- SDI 1 = link 1
- SDI 2 = link 2
- SDI 3 = link 3
- SDI 4 = link 4



- 1920x1080 = 1920x1080 and 2048x1080
- 3840x2160 = 3840x2160 and 4096x2160
- 24, 30, 48, and 60 Hz frame rates also include fractional 1/1.001 rates.

	Format	Cables	Frame rate (Hz)	Sampling	Bit-depth	Notes
4K	3840x2160	4	24, 25, 30	Y'C'B'C' _R /RGB/ 4:4:4(4)	10bpc	Y'C'B'C' _R /RGB component at quad-link 3Gb/s (ST 425-5) level A structure 2
	3840x2160	4	24, 25, 30	Y'C'B'C' _R /RGB/ 4:4:4	12bpc	Y'C'B'C' _R /RGB component at quad-link 3Gb/s (ST 425-5) level A structure 3
	3840x2160	4	24, 25, 30	Y'C'B'C' _R /4:2:2(4)	12bpc	Y'C'B'C' _R component at quad-link 3Gb/s (ST 425-5) level A structure 4
	3840x2160	4	24, 25, 30	Y'C'B'C' _R /4:2:2	12bpc	Y'C'B'C' _R component at quad-link 3Gb/s (ST 425-5) level A structure 4
	3840x2160	4	48, 50, 60	Y'C'B'C' _R /4:2:2	10bpc	Y'C'B'C' _R component at quad-link 3Gb/s (ST 425-5) level A structure 4
	3840x2160	4	48, 50, 60	Y'C'B'C' _R /RGB/ 4:4:4(4)	10bpc	Y'C'B'C' _R /RGB component at quad-link 6Gb/s (ST 2081-12) mode 2 structure II
	3840x2160	4	48, 50, 60	Y'C'B'C' _R /RGB/ 4:4:4	12bpc	Y'C'B'C' _R /RGB component at quad-link 6Gb/s

Format	Cables	Frame rate (Hz)	Sampling	Bit-depth	Notes
					(ST 2081-12) mode 2 structure III
3840x2160	4	48, 50, 60	Y'C'B'C _R /4:2:2	12bpc	Y'C'B'C _R component at quad-link 6Gb/s (ST 2081-12) mode 2 structure IV
3840x2160	4	48, 50, 60	Y'C'B'C _R /4:2:2(4)	12bpc	Y'C'B'C _R component at quad-link 6Gb/s (ST 2081-12) mode 2 structure IV

Quad-link (SQ div) 2D: 4K UHD

The following quad-link 2D UHD/4K SDI image formats are supported in square division mapping format, so each SDI input represents one quarter of the total image assigned as shown in the following diagram:

Input 1 SDI 1	Input 2 SDI 2
Input 3 SDI 3	Input 4 SDI 4



- 1920x1080 line progressive formats includes both 1920x1080 and 2048x1080.
- 3840x2160 line progressive formats include both 3840x2160 and 4096x2160.
- 24, 30, 48, and 60 Hz frame rates also include fractional 1/1.001 frame rates.
- For all 4K image formats, only 2SI subdivision is supported.

	Format	Cables	Frame rate (Hz)	Sampling	Bit-depth	Notes
4K	3840x2160	4	48, 50, 60	Y'C'B'C _R /4:2:2	10bpc	Y'C'B'C _R component at quad-link 3 Gb/s (ST 425-5) annex B square division of 2160-image formats, B.1 level A mapping
	3840x2160	4	24, 25, 30	Y'C'B'C _R /RGB/4:4:4(4)	10bpc	Y'C'B'C _R /RGB component at quad-link 3 Gb/s

Format	Cables	Frame rate (Hz)	Sampling	Bit-depth	Notes
					(ST 425-5) annex B square division of 2160-image formats, B.1 level A mapping
3840x2160	4	24, 25, 30	Y'C'B'C'R/RGB/4:4:4	12bpc	Y'C'B'C'R/RGB component at quad-link 3 Gb/s (ST 425-5) annex B square division of 2160-image formats, B.1 level A mapping
3840x2160	4	24, 25, 30	Y'C'B'C'R/4:2:2(4)	12bpc	Y'C'B'C'R component at quad-link 3 Gb/s (ST 425-5) annex B square division of 2160-image formats, B.1 level A mapping
3840x2160	4	24, 25, 30	Y'C'B'C'R/4:2:2	12bpc	Y'C'B'C'R component at quad-link 3 Gb/s (ST 425-5) annex B square division of 2160-image formats, B.1 level A mapping
3840x2160	4	48, 50, 60	Y'C'B'C'R/RGB/4:4:4(4)	10bpc	Y'C'B'C'R/RGB component at quad-link 6 Gb/s (ST 2081) mode 2 structure II
3840x2160	4	48, 50, 60	Y'C'B'C'R/RGB/4:4:4	12bpc	Y'C'B'C'R/RGB component at quad-link 6 Gb/s (ST 2081) mode 2 structure II

Where each SDI Input corresponds to one of the following input signal formats:

Format		Cables	Frame rate (Hz)	Sampling	Bit-depth	Notes
HD	1920x1080	1	48, 50, 60	Y'C'B'C'R/4:2:2	10bpc	HD 1080p component at 3.0 Gb/s (ST 425-1) level A

Format	Cables	Frame rate (Hz)	Sampling	Bit-depth	Notes
1920x1080	1	24, 25, 30	Y'C'B'C'R/RGB/ 4:4:4(4)	12bpc	HD 1080p Y'C'B'C'R/RGB component at 3.0 Gb/s (ST 425-1) level A
1920x1080	1	24, 25, 30	Y'C'B'C'R/4:2:2(4)	12bpc	HD 1080p Y'C'B'C'R component at 3.0 Gb/s (ST 425-1) level A
1920x1080	1	48, 50, 60	Y'C'B'C'R/RGB/ 4:4:4(4)	10bpc	HD 1080p Y'C'B'C'R/RGB component at 6.0 Gb/s (ST 2081-10) structure II
1920x1080	1	48, 50, 60	Y'C'B'C'R/RGB/ 4:4:4	12bpc	HD 1080p Y'C'B'C'R/RGB component at 6.0 Gb/s (ST 2081-10) mode 2 structure III

Dual-link 3D

The following dual-input 3D SDI image formats are supported where the indicated frame rate is per eye. The SDI inputs are assigned as follows:

- Input 1: Left eye = SDI 1 and Right eye = SDI 2
- Input 2: Left eye = SDI 3 and Right eye = SDI 4



- 1920x1080 line progressive formats includes both 1920x1080 and 2048x1080.
- 3840x2160 line progressive formats include both 3840x2160 and 4096x2160.
- 24, 30, 48, and 60 Hz frame rates also include fractional 1/1.001 frame rates.
- For 3 Gb/s SDI Inputs only Level A is supported.
- For all 4K image formats, only 2SI subdivision is supported.

	Format	Cables	Frame rate (Hz)	Sampling	Bit-depth	Notes
HD	1280x720	2	24, 25, 30, 50, 60	Y'C' _B C' _R /4:2:2	10bpc	HD 720p Y'C' _B C' _R component at 1.5 Gb/s (ST 292-1)
	1280x720	2	24, 25, 30, 50, 60	Y'C' _B C' _R /RGB/4:4:4(4)	10bpc	HD 720p Y'C' _B C' _R /RGB component at 3.0 Gb/s

Format	Cables	Frame rate (Hz)	Sampling	Bit-depth	Notes
					(ST 425-1) level A
1920x1080	2	24, 25, 30	Y'C _B C _R /4:2:2	10bpc	HD 1080p component at 1.5 Gb/s (ST 292-1)
1920x1080	2	48, 50, 60	Y'C _B C _R /4:2:2	10bpc	HD 1080p component at 3.0 Gb/s (ST 425-1) level A
1920x1080	2	24, 25, 30	Y'C _B C _R /RGB/4:4:4(4)	12bpc	HD 1080p Y'C _B C _R /RGB component at 3.0 Gb/s (ST 425-1) level A
1920x1080	2	24, 25, 30	Y'C _B C _R /4:2:2(4)	12bpc	HD 1080p Y'C _B C _R component at 3.0 Gb/s (ST 425-1) level A
1920x1080	2	48, 50, 60	Y'C _B C _R /RGB/4:4:4(4)	10bpc	HD 1080p Y'C _B C _R component at 6.0 Gb/s (ST 2081-10) mode 3 structure II
1920x1080	2	48, 50, 60	Y'C _B C _R /RGB/4:4:4	12bpc	HD 1080p Y'C _B C _R /RGB component at 6.0 Gb/s (ST 2081-10) mode 2 structure III
1920x1080	2	48, 50, 60	Y'C _B C _R /RGB/4:2:2	12bpc	HD 1080p Y'C _B C _R /RGB component at 6.0 Gb/s (ST 2081-10) mode 2 structure IV
4K	3840x2160	24, 25, 30	Y'C _B C _R /4:2:2	10bpc	2160p Y'C _B C _R component at 6.0 Gb/s (ST 2081-10) mode 1 structure 1

	Format	Cables	Frame rate (Hz)	Sampling	Bit-depth	Notes
	3840x2160	2	48, 50, 60	Y'C _B C _R /4:2:2	10bpc	2160p Y'C _B C _R component at 12.0 Gb/s (ST 2082-10) mode 1 structure 1
	3840x2160	2	24, 25, 30	Y'C _B C _R /RGB/4:4:4(4)	10bpc	2160p Y'C _B C _R /RGB component at 12.0 Gb/s (ST 2082-10) mode 1 structure 2
	3840x2160	2	24, 25, 30	Y'C _B C _R /RGB/4:4:4	12bpc	2160p Y'C _B C _R /RGB component at 12.0 Gb/s (ST 2082-10) mode 1 structure 3
	3840x2160	2	24, 25, 30	Y'C _B C _R /4:2:2(4)	12bpc	2160p Y'C _B C _R component at 12.0 Gb/s (ST 2082-10) mode 1 structure 4

Dual-link 3D dual-input

The following dual-input 3D SDI dual-link image formats are supported where the indicated frame rate is per eye (synchronous sources only). The SDI inputs are assigned as follows:

- Left eye = SDI inputs 1 and 2
- Right eye = SDI inputs 3 and 4



- 1920x1080 line progressive formats includes both 1920x1080 and 2048x1080.
- 3840x2160 line progressive formats include both 3840x2160 and 4096x2160.
- 24, 30, 48, and 60 Hz frame rates also include fractional 1/1.001 frame rates.

	Format	Cables	Frame rate (Hz)	Sampling	Bit-depth	Notes
HD	1920x1080	4	48, 50, 60	Y'C _B C _R /RGB/4:4:4(4)	10bpc	Y'C _B C _R /RGB component at dual-link 3 Gb/s (ST 425-3) Structure II
	1920x1080	4	48, 50, 60	Y'C _B C _R /RGB/4:4:4	12bpc	Y'C _B C _R /RGB component at dual-link 3 Gb/s (ST 425-3) Structure III

	Format	Cables	Frame rate (Hz)	Sampling	Bit-depth	Notes
	1920x1080	4	48, 50, 60	Y'C'B'C _R /4:2:2	12bpc	Y'C'B'C _R component at dual-link 3 Gb/s (ST 425-3) Structure IV
	1920x1080	4	48, 50, 60	Y'C'B'C _R /4:2:2(4)	12bpc	Y'C'B'C _R component at dual-link 3 Gb/s (ST 425-3) Structure IV
4K	3840x2160	4	24, 25, 30	Y'C'B'C _R /4:2:2	10bpc	Y'C'B'C _R component at dual-link 3 Gb/s (ST 425-3)
	3840x2160	4	48, 50, 60	Y'C'B'C _R /4:2:2	10bpc	Y'C'B'C _R component at dual-link 6 Gb/s (ST 2081-11) Mode 1
	3840x2160	4	24, 25, 30	Y'C'B'C _R /RGB/4:4:4(4)	10bpc	Y'C'B'C _R /RGB component at dual-link 6 Gb/s (ST 2081-11) Mode 1
	3840x2160	4	24, 25, 30	Y'C'B'C _R /RGB/4:4:4	12bpc	Y'C'B'C _R /RGB component at dual-link 6 Gb/s (ST 2081-11) Mode 1
	3840x2160	4	24, 25, 30	Y'C'B'C _R /4:2:2	12bpc	Y'C'B'C _R component at dual-link 6 Gb/s (ST 2081-11) Mode 1
	3840x2160	4	24, 25, 30	Y'C'B'C _R /4:2:2(4)	12bpc	Y'C'B'C _R component at dual-link 6 Gb/s (ST 2081-11) Mode 1

Single-link 2D HD/2K HFR

The following single-link SDI 2D HD/2K HFR image formats are supported.



- 1920x1080 line progressive formats includes both 1920x1080 and 2048x1080.
- 96 and 120 Hz frame rates also include fractional 1/1.001 frame rates.

	Format	Cables	Frame rate (Hz)	Sampling	Bit-depth	Notes
HD	1920x1080	1	96, 100, 120	Y'C'B'C'R/4:2:2	10bpc	HD 1080p Y'C'B'C'R component at 6Gb/s (ST 2081-10) mode 3
	1920x1080	1	96, 100, 120	Y'C'B'C'R/RGB/4:4:4(4)	10bpc	HD 1080p Y'C'B'C'R/RGB component at 12Gb/s (ST 2082-10) mode 2 structure II
	1920x1080	1	96, 100, 120	Y'C'B'C'R/RGB/4:4:4	12bpc	HD 1080p Y'C'B'C'R/RGB component at 12Gb/s (ST 2082-10) mode 2 structure III
	1920x1080	1	96, 100, 120	Y'C'B'C'R/4:2:2(4)	12bpc	HD 1080p Y'C'B'C'R component at 12Gb/s (ST 2082-10) mode 2 structure IV

Dual-link 2D HD/2K HFR

The following one-port dual-link SDI 2D HD/2K HFR SDI image formats are supported. The SDI is a fixed configuration.

- SDI 1 = link 1 of input 1
- SDI 2 = link 2 of input 1
- SDI 3 = link 1 of input 2
- SDI 4 = link 2 of input 2



- 1920x1080 line progressive formats includes both 1920x1080 and 2048x1080.
- 96 and 120 Hz frame rates also include fractional 1/1.001 frame rates.

	Format	Cables	Frame rate (Hz)	Sampling	Bit-depth	Notes
HD	1920x1080	2	96, 100, 120	Y'C'B'C'R/RGB/4:4:4(4)	10bpc	Y'C'B'C'R /RGB component at dual-link 6 Gb/s

Format	Cables	Frame rate (Hz)	Sampling	Bit-depth	Notes
					(ST 2081-11) mode 2 (ST 425-3) level A structure II
1920x1080	2	96, 100, 120	Y'C'B'C' _R /RGB/4:4:4	12bpc	Y'C'B'C' _R /RGB component at dual-link 6Gb/s (ST 2081-11) mode 2
1920x1080	2	96, 100, 120	Y'C'B'C' _R /4:2:2	12bpc	Y'C'B'C' _R component at dual-link 6 Gb/s (ST 2081-11) mode 2

Quad-link 2D UHD/4K HFR 2SI

The following quad-link SDI 2D UHD/4K HFR 2SI image formats are supported.



- 3840x2160 line progressive formats include both 3840x2160 and 4096x2160.
- 96 and 120 Hz frame rates also include fractional 1/1.001 frame rates.

	Format	Cables	Frame rate (Hz)	Sampling	Bit-depth	Notes
4K	3840x2160	4	96, 100, 120	Y'C'B'C'R/4:2:2	10bpc	Y'C'B'C'R component at quad-link 6 Gb/s (ST 2081-12) mode 3
	3840x2160	4	96, 100, 120	Y'C'B'C'R/RGB/4:4:4(4)	10bpc	Y'C'B'C'R/RGB component at quad-link 12 Gb/s (ST 2082-12) mode 2 structure II
	3840x2160	4	96, 100, 120	Y'C'B'C'R/RGB/4:4:4	12bpc	Y'C'B'C'R/RGB component at quad-link 12 Gb/s (ST 2082-12) mode 2 structure III
	3840x2160	4	96, 100, 120	Y'C'B'C'R/4:2:2(4)	12bpc	Y'C'B'C'R component at quad-link 12 Gb/s (ST 2082-12) mode 2 structure IV

Dual-link 2D UHD/4K (12G)

The following dual-link 12G-SDI 2D UHD/4K image formats are supported in accordance with SMPTE ST 2082-11. The following input combinations are supported:

- Input 1: SDI 1 and SDI 2
- Input 2: SDI 3 and SDI 4



- 3840x2160 line progressive formats include both 3840x2160 and 4096x2160.
- 48, 60, 96, and 120 Hz frame rates also include fractional 1/1.001 frame rates.

	Format	Cables	Frame rate (Hz)	Sampling	Bit-depth	Notes
4K	3840x2160	2	48, 50, 60	Y'C'B'C'R/RGB/ 4:4:4(4)	10bpc	Y'C'B'C'R/RGB component at dual-link 12 Gb/s (ST 2048-11) mode 2 structure II
	3840x2160	2	48, 50, 60	Y'C'B'C'R/RGB/ 4:4:4	12bpc	Y'C'B'C'R/RGB component at dual-link 12 Gb/s (ST 2082-11) mode 2 structure III
	3840x2160	2	48, 50, 60	Y'C'B'C'R/4:2:2(4)	12bpc	Y'C'B'C'R component at dual-link 12 Gb/s (ST 2082-11) mode 2 structure IV
	3840x2160	2	96, 100, 120	Y'C'B'C'R/4:2:2	10bpc	Y'C'B'C'R component at dual-link 12 Gb/s (ST 2082-11) mode 3 structure IV

Dual-link dual-input 3D UHD/4K (12G)

The following dual-input, dual-link 12G-SDI 3D UHD/4K image formats are supported, where the indicated frame rate is per eye (synchronous sources only). The SDI inputs are assigned as follows:

- Left eye = SDI 1 and 2
- Right eye = SDI 3 and 4



- 3840x2160 line progressive formats include both 3840x2160 and 4096x2160.
- 48 and 60 Hz frame rates also include fractional 1/1.001 frame rates.

	Format	Cables	Frame rate (Hz)	Sampling	Bit-depth	Notes
4K	3840x2160	4	48, 50, 60	Y'C'B'C' _R /RGB/ 4:4:4(4)	10bpc	Y'C'B'C' _R /RGB component at dual-link 12 Gb/s (ST 2048-11) mode 2 structure II
	3840x2160	4	48, 50, 60	Y'C'B'C' _R /RGB/ 4:4:4	12bpc	Y'C'B'C' _R /RGB component at dual-link 12 Gb/s (ST 2082-11) mode 2 structure III
	3840x2160	4	48, 50, 60	Y'C'B'C' _R /4:2:2(4)	12bpc	Y'C'B'C' _R component at dual-link 12 Gb/s (ST 2082-11) mode 2 structure IV

Quad-link 2D 8K 2SI (12G)

The following 12G-SDI 2D 8K 2SI image formats are supported.



- 7680x4320 line progressive formats include both 7680x4320 and 8192x4320.
- 24 and 30 Hz frame rates also include fractional 1/1.001 frame rates.

	Format	Cables	Frame rate (Hz)	Sampling	Bit-depth	Notes
8K	7680x4320	4	24, 25, 30	Y'C'B'C' _R /RGB/ 4:4:4(4)	10bpc	Y'C'B'C' _R /RGB component at quad-link 12 Gb/s (ST 2082-12) mode 1
	7680x4320	4	24, 25, 30	Y'C'B'C' _R /RGB/ 4:4:4	12bpc	Y'C'B'C' _R /RGB component at quad-link 12 Gb/s (ST 2082-12) mode 1
	7680x4320	4	24, 25, 30	Y'C'B'C' _R /4:2:2	12bpc	Y'C'B'C' _R component at quad-link 12 Gb/s (ST 2082-12) mode 1

Dual-input 2D HD/2K and UHD/4K HFR temporal interleave

The following SDI 2D HD/2K and UHD/4K HFR image formats are supported as dual-input temporal Interleave, where separate odd/even frame input signals are required (synchronous sources only).

The SDI inputs are assigned as follows:

- Input 1 = SDI 1 (odd) and SDI 2 (even)
- Input 2 = SDI 3 (odd) and SDI 4 (even)



- 1920x1080 line progressive formats includes both 1920x1080 and 2048x1080.
- 3840x2160 line progressive formats include both 3840x2160 and 4096x2160
- 96 and 120 Hz frame rates also include fractional 1/1.001 frame rates.
- For all 3Gb/s SDI Inputs only level A is supported.
- For all 4K image formats only 2SI subdivision is supported.

	Format	Cables	Frame rate (Hz)	Sampling	Bit-depth	Notes
HD	1920x1080	2	96, 100, 120	Y'C'B'C' _R /4:2:2	10bpc	HD 1080p Y'C'B'C' _R component at 3.0 Gb/s (ST 425-1) level A presented as separate odd/even 48, 50, 60 fps input signals
	1920x1080	2	96, 100, 120	Y'C'B'C' _R /RGB/4:4:4(4)	10bpc	HD 1080p Y'C'B'C' _R /RGB component at 6.0 Gb/s (ST 2081-10) structure II presented as separate odd/even 48, 50, 60 fps input signals
	1920X1080	2	96, 100, 120	Y'C'B'C' _R /RGB/4:4:4	12bpc	HD 1080p Y'C'B'C' _R /RGB component at 6.0 Gb/s (ST 2081-10) mode 2 structure III presented as separate odd/even 48, 50, 60 fps input signals
	1920x1080	2	96, 100, 120	Y'C'B'C' _R /RGB/4:2:2(4)	12bpc	HD 1080p Y'C'B'C' _R /RGB component at 6.0 Gb/s

Format	Cables	Frame rate (Hz)	Sampling	Bit-depth	Notes
					(ST 2081-10) mode 2 structure IV presented as separate odd/even 48, 50, 60 fps input signals
4K	3840x2160	2	96, 100, 120	Y'C _B C _R /4:2:2	10bpc 2160p Y'C _B C _R component at 6.0 Gb/s (ST 2081-10) mode 1 structure 1 presented as separate odd/even 48, 50, 60 fps input signals

Dual-input 3D HD/2K and UHD/4K HFR temporal interleave

The following SDI 3D HFR image formats are supported as dual-input temporal Interleave, where separate odd/even frame input signals are required (synchronous sources only).

The SDI inputs are assigned as follows:

- Left eye = SDI 1 (odd) and 2 (even)
- Right eye = SDI 3 (odd) and 4 (even)



- 1920x1080 line progressive formats includes both 1920x1080 and 2048x1080.
- 3840x2160 line progressive formats include both 3840x2160 and 4096x2160
- 96 and 120 Hz frame rates also include fractional 1/1.001 frame rates.
- For all 3Gb/s SDI Inputs only level A is supported.
- For all 4K image formats only 2SI subdivision is supported.

Format	Cables	Frame rate (Hz)	Sampling	Bit-depth	Notes
HD	1920x1080	4	96, 100, 120	Y'C _B C _R /4:2:2	10bpc HD 1080p Y'C _B C _R component at 3.0 Gb/s (ST 425-1) level A presented as separate odd/even 48, 50, 60 fps input signals
	1920x1080	4	96, 100, 120	Y'C _B C _R /RGB/4:4:4(4)	10bpc HD 1080p Y'C _B C _R /RGB component at 6.0 Gb/s (ST 2081-10) structure II presented as

Format	Cables	Frame rate (Hz)	Sampling	Bit-depth	Notes
					separate odd/even 48, 50, 60 fps input signals
1920X1080	4	96, 100, 120	Y'C'B'C'R/RGB/ 4:4:4	12bpc	HD 1080p Y'C'B'C'R/RGB component at 6.0 Gb/s (ST 2081-10) mode 2 structure III presented as separate odd/even 48, 50, 60 fps input signals
1920x1080	4	96, 100, 120	Y'C'B'C'R/RGB/ 4:2:2(4)	12bpc	HD 1080p Y'C'B'C'R/RGB component at 6.0 Gb/s (ST 2081-10) mode 2 structure IV presented as separate odd/even 48, 50, 60 fps input signals
4K	3840x2160	4	96, 100, 120	Y'C'B'C'R/4:2:2	10bpc 2160p Y'C'B'C'R component at 6.0 Gb/s (ST 2081-10) mode 1 structure 1 presented as separate odd/even 48, 50, 60 fps input signals presented as separate odd/even 48, 50, 60 fps input signals

Dual-link dual-input 2D HD/2K and UHD/4K HFR temporal interleave

The following SDI 2D HD/2K and UHD/4K HFR image formats are supported as dual-input temporal Interleave, where separate odd/even frame input signals are required (synchronous sources only).

The SDI inputs are assigned as follows:

- Odd = SDI 1 and SDI 2
- Even = SDI 3 and SDI 4



- 1920x1080 line progressive formats includes both 1920x1080 and 2048x1080.
- 3840x2160 line progressive formats include both 3840x2160 and 4096x2160
- 96 and 120 Hz frame rates also include fractional 1/1.001 frame rates.

	Format	Cables	Frame rate (Hz)	Sampling	Bit-depth	Notes
HD	1920x1080	4	96, 100, 120	Y'C'B'C' _R /RGB/ 4:4:4(4)	10bpc	Y'C'B'C' _R /RGB component at dual-link 3 Gb/s (ST 425-3) structure II presented as separate odd/even 48, 50, 60 fps input signals
	1920x1080	4	96, 100, 120	Y'C'B'C' _R /RGB/ 4:4:4	12bpc	Y'C'B'C' _R /RGB component at dual-link 3 Gb/s (ST 425-3) structure III presented as separate odd/even 48, 50, 60 fps input signals
	1920x1080	4	96, 100, 120	Y'C'B'C' _R /4:2:2	12bpc	Y'C'B'C' _R component at dual-link 3 Gb/s (ST 425-3) structure IV presented as separate odd/even 48, 50, 60 fps input signals
	1920x1080	4	96, 100, 120	Y'C'B'C' _R /4:2:2(4)	12bpc	Y'C'B'C' _R component at dual-link 3 Gb/s (ST 425-3) structure IV presented as separate odd/even 48, 50, 60 fps input signals
4K	3840x2160	4	96, 100, 120	Y'C'B'C' _R /4:2:2	10bpc	Y'C'B'C' _R component at dual-link 6 Gb/s (ST 2081-11) mode 1 presented as separate odd/

Format	Cables	Frame rate (Hz)	Sampling	Bit-depth	Notes
					even 48, 50, 60 fps input signals

DisplayPort 1.2 video formats

The following image formats are supported by the DisplayPort inputs.

One-port 2D HD/2K and UHD/4K

The following one-port 2D HD/2K and UHD/4K DisplayPort 1.2 image formats are supported on each of the DisplayPort 1.2 inputs.



24, 30, 60, and 120 Hz frame rates also include fractional 1/1.001 frame rates.

	Format	Cables	Frame rate (Hz)	Sampling	Bit-depth
HD	1280x720	1	24, 25, 30, 50, 60, 120	Y'C'B'C'R/RGB/4:4:4	8/10/12bpc
	1920x1080	1	24, 25, 30, 50, 60, 120	Y'C'B'C'R/RGB/4:4:4	8/10/12bpc
	2048x1080	1	24, 25, 30, 50, 60, 120	Y'C'B'C'R/RGB/4:4:4	8/10/12bpc
4K	3840x2160	1	24, 25, 30, 50, 60	Y'C'B'C'R/RGB/4:4:4	8/10bpc
	4096x2160	1	24, 25, 30, 50, 60	Y'C'B'C'R/RGB/4:4:4	8/10bpc

One-port 3D HD/2K and UHD/4K

The following one-port 3D DisplayPort image formats are supported in frame sequential transmission format. Frame rate is expressed per eye in the following table.



- Frame rates are expressed per eye.
- 24, 30, and 60 Hz frame rates also include fractional 1/1.001 frame rates.

	Format	Cables	Frame rate (Hz)	Sampling	Bit-depth
HD	1280x720	1	24, 25, 30, 50, 60	Y'C'B'C'R/RGB/4:4:4	8/10/12bpc
	1920x1080	1	24, 25, 30, 50, 60	Y'C'B'C'R/RGB/4:4:4	8/10/12bpc
	2048x1080	1	24, 25, 30, 50, 60	Y'C'B'C'R/RGB/4:4:4	8/10/12bpc
4K	3840x2160	1	25, 30	Y'C'B'C'R/RGB/4:4:4	8/10bpc
	4096x2160	1	25, 30	Y'C'B'C'R/RGB/4:4:4	8/10bpc

One-port, dual-input 3D HD/2K and UHD/4K

The following one-port, dual-input 3D HD/2K and UHD/4K DisplayPort 1.2 image formats are supported. Dual-input 3D is a fixed configuration where DisplayPort 1 = left eye input and DisplayPort 2 = right eye input.



- Frame rates are expressed per eye.
- 24, 30, 60 Hz frame rates also include fractional 1/1.001 frame rates.

	Format	Cables	Frame rate (Hz)	Sampling	Bit-depth
HD	1280x720	2	24, 25, 30, 60	Y'C'B'C'R/RGB/4:4:4	8/10/12bpc
	1920x1080	2	24, 25, 30, 60	Y'C'B'C'R/RGB/4:4:4	8/10/12bpc
	2048x1080	2	24, 25, 30, 60	Y'C'B'C'R/RGB/4:4:4	8/10/12bpc
4K	3840x2160	2	24, 25, 30, 60	Y'C'B'C'R/RGB/4:4:4	8/10bpc
	4096x2160	2	24, 25, 30, 60	Y'C'B'C'R/RGB/4:4:4	8/10bpc

One-port 2D PC

The following one-port 2D DisplayPort 1.2 PC image formats are supported on each of the two DisplayPort inputs.

	Format	Cables	Frame rate (Hz)	Sampling	Bit-depth
PC	1280x800	1	60	RGB	8bpc
	1280x960	1	60	RGB	8bpc
	1280x1024	1	60	RGB	8bpc
	1440x900	1	60	RGB	8bpc
	1680x1050	1	60	RGB	8bpc
	1600x1200	1	60	RGB	8bpc
	1920x1200	1	60	RGB	8bpc

Series 2 Integrated Media Block (IMB) video formats

S2 Integrated Media Block (IMB) video format support is determined by the IMB make and model. Refer to the associated IMB documentation to understand which of the following video signals are supported.

The following image formats are supported in the Series 2 IMB interface in RGB 4:4:4 format.

Format	Resolution	Max frame rate 2D	Max frame rate 3D	Min frame rate	Bit-depth
VGA	640x480	120.0	120.0	23.0	8-bits
4CIF	704x576	120.0	120.0	23.0	8-bits

Format	Resolution	Max frame rate 2D	Max frame rate 3D	Min frame rate	Bit-depth
525 4SIF	704x480	120.0	120.0	23.0	8-bits
525 SD	720x480	120.0	120.0	23.0	8-bits
625 SD	720x568	120.0	120.0	23.0	8-bits
SVGA	800x600	79.6	79.6	23.0	8-bits
XGA	1024x768	79.6	79.6	23.0	8-bits
720p HD	1280x720	68.0	68.0	23.0	8-bits
4VGA	1280x960	51.0	51.0	23.0	8-bits
SXGA	1280x1024	47.8	N/A	23.0	8-bits
525 16SIF	1408x960	46.3	N/A	23.0	8-bits
16CIF	1408x1152	38.6	N/A	23.0	8-bits
4SVGA	1600x1200	32.6	N/A	23.0	8-bits
1080 HD	2048x1080	30.0	N/A	23.0	8-bits

SMPTE-compatible 2D cinema image formats

Specification	Resolution	Frame rate	Color format	Bit-depth
SMPTE 428-1-2019	2048x1080	24	X'Y'Z' (4:4:4)	12-bits
SMPTE 428-11-2013	2048x1080	25	X'Y'Z' (4:4:4)	12-bits
SMPTE 428-11-2013	2048x1080	30	X'Y'Z' (4:4:4)	12-bits
SMPTE 428-1-2019	2048x1080	48	X'Y'Z' (4:4:4)	12-bits
SMPTE 428-11-2013	2048x1080	50	X'Y'Z' (4:4:4)	12-bits
SMPTE 428-11-2013	2048x1080	60	X'Y'Z' (4:4:4)	12-bits
SMPTE 428-11-2013	2048x1080	100	X'Y'Z' (4:4:4)	12-bits
SMPTE 428-11-2013	2048x1080	120	X'Y'Z' (4:4:4)	12-bits
SMPTE 428-1-2019	4096x2160	24	X'Y'Z' (4:4:4)	12-bits
SMPTE 428-11-2013	4096x2160	25	X'Y'Z' (4:4:4)	12-bits
SMPTE 428-11-2013	4096x2160	30	X'Y'Z' (4:4:4)	12-bits
SMPTE 2048-1-2024	4096x2160	48	X'Y'Z' (4:4:4)	12-bits
SMPTE 2048-1-2024	4096x2160	50	X'Y'Z' (4:4:4)	12-bits
SMPTE 2048-1-2024	4096x2160	60	X'Y'Z' (4:4:4)	12-bits

SMPTE-compatible 3D cinema image formats

Specification	Resolution	Frame rate	Color format	Bit depth
SMPTE 428-1-2019	2048x1080	24 X 2	X'Y'Z' (4:4:4)	12-bits

Specification	Resolution	Frame rate	Color format	Bit depth
SMPTE 428-11-2013	2048x1080	25 X 2	X'Y'Z' (4:4:4)	12-bits
SMPTE 428-11-2013	2048x1080	30 X 2	X'Y'Z' (4:4:4)	12-bits
SMPTE 428-1-2019	2048x1080	48 X 2	X'Y'Z' (4:4:4)	12-bits
SMPTE 428-11-2013	2048x1080	50 X 2	X'Y'Z' (4:4:4)	12-bits
SMPTE 428-11-2013	2048x1080	60 X 2	X'Y'Z' (4:4:4)	12-bits
SMPTE 428-1-2019	4096x2160	24 X 2	X'Y'Z' (4:4:4)	12-bits
SMPTE 428-11-2013	4096x2160	25 X 2	X'Y'Z' (4:4:4)	12-bits
SMPTE 428-11-2013	4096x2160	30 X 2	X'Y'Z' (4:4:4)	12-bits

Series 4 Integrated Media Block (IMB) video formats

S4 Integrated Media Block (IMB) video format support is determined by the IMB make and model. Refer to the associated IMB documentation to understand which of the following video signals are supported.

The following image formats are supported in the Series 4 IMB interface in RGB 4:4:4 format.

Format	Resolution	Max frame rate 2D	Max frame rate 3D	Min frame rate	Bit depth
VGA	640x480	120.0	120.0	23.0	8-bits
525 4SIF	704x480	120.0	120.0	23.0	8-bits
525 SD	720x480	120.0	120.0	23.0	8-bits
4CIF	704x576	120.0	120.0	23.0	8-bits
625 SD	720x568	120.0	120.0	23.0	8-bits
SVGA	800x600	79.6	79.6	23.0	8-bits
XGA	1024x768	79.6	79.6	23.0	8-bits
720p HD	1280x720	68.0	68.0	23.0	8-bits
4VGA	1280x960	51.0	51.0	23.0	8-bits
SXGA	1280x1024	47.8	N/A	23.0	8-bits
525 16SIF	1408x960	46.3	N/A	23.0	8-bits
16CIF	1408x1152	38.6	N/A	23.0	8-bits
4SVGA	1600x1200	32.6	N/A	23.0	8-bits
1080 HD	1920x1080	30.0	N/A	23.0	8-bits

SMPTE-compatible 2D cinema image formats

Specification	Resolution	Frame rate	Color format	Bit depth
SMPTE 428-1-2019	2048x1080	24	X'Y'Z' (4:4:4)	12-bits
SMPTE 428-11-2013	2048x1080	25	X'Y'Z' (4:4:4)	12-bits
SMPTE 428-11-2013	2048x1080	30	X'Y'Z' (4:4:4)	12-bits
SMPTE 428-1-2019	2048x1080	48	X'Y'Z' (4:4:4)	12-bits
SMPTE 428-11-2013	2048x1080	50	X'Y'Z' (4:4:4)	12-bits
SMPTE 428-11-2013	2048x1080	60	X'Y'Z' (4:4:4)	12-bits
SMPTE 428-11-2013	2048x1080	100	X'Y'Z' (4:4:4)	12-bits
SMPTE 428-11-2013	2048x1080	120	X'Y'Z' (4:4:4)	12-bits
SMPTE 428-1-2019	4096x2160	24	X'Y'Z' (4:4:4)	12-bits
SMPTE 428-11-2013	4096x2160	25	X'Y'Z' (4:4:4)	12-bits
SMPTE 428-11-2013	4096x2160	30	X'Y'Z' (4:4:4)	12-bits
SMPTE 2048-1-2024	4096x2160	48	X'Y'Z' (4:4:4)	12-bits
SMPTE 2048-1-2024	4096x2160	50	X'Y'Z' (4:4:4)	12-bits
SMPTE 2048-1-2024	4096x2160	60	X'Y'Z' (4:4:4)	12-bits
SMPTE 2048-1-2024	4096x2160	96	X'Y'Z' (4:4:4)	12-bits
SMPTE 2048-1-2024	4096x2160	100	X'Y'Z' (4:4:4)	12-bits
SMPTE 2048-1-2024	4096x2160	120	X'Y'Z' (4:4:4)	12-bits

SMPTE-compatible 3D cinema image formats

Specification	Resolution	Frame rate	Color format	Bit depth
SMPTE 428-1-2019	2048x1080	24 X 2	X'Y'Z' (4:4:4)	12-bits
SMPTE 428-11-2013	2048x1080	25 X 2	X'Y'Z' (4:4:4)	12-bits
SMPTE 428-11-2013	2048x1080	30 X 2	X'Y'Z' (4:4:4)	12-bits
SMPTE 428-1-2019	2048x1080	48 X 2	X'Y'Z' (4:4:4)	12-bits
SMPTE 428-11-2013	2048x1080	50 X 2	X'Y'Z' (4:4:4)	12-bits
SMPTE 428-11-2013	2048x1080	60 X 2	X'Y'Z' (4:4:4)	12-bits
SMPTE 428-1-2019	4096x2160	24 X 2	X'Y'Z' (4:4:4)	12-bits
SMPTE 428-11-2013	4096x2160	25 X 2	X'Y'Z' (4:4:4)	12-bits
SMPTE 428-11-2013	4096x2160	30 X 2	X'Y'Z' (4:4:4)	12-bits
SMPTE 2048-1-2024	4096x2160	48 X 2	X'Y'Z' (4:4:4)	12-bits
SMPTE 2048-1-2024	4096x2160	50 X 2	X'Y'Z' (4:4:4)	12-bits
SMPTE 2048-1-2024	4096x2160	60 X 2	X'Y'Z' (4:4:4)	12-bits