Kramer Electronics has a full line of Video and Sync interfaces. The group is divided into two families of products - Interfaces and Sync Processors.

Interface products are used for video and audio format conversion:

❑ Video Decoders.

The machines in this family are used to decode (convert) a Composite video signal to Y/C and to decode a Composite or Y/C signal to RGBS and/or Y, R-Y, B-Y.

❑ Video Encoders.

Video Encoders create a Chrominance signal from video components, e.g., they are used to convert RGBS and/or Y, R-Y and B-Y signals to Composite Video and Y/C.

❑ Video Transcoders.

The Video Transcoders are bi-directional converters operating simultaneously in different directions - like converting from RGBS to Y, R-Y and B-Y in both directions in the same machine, or going from Composite to Y/C bi-directionally.

❑ Audio Transcoders.

Used in audio and video production studios for converting from unbalanced low-level audio to balanced high-level audio, bi-directionally.

The Sync Processors family includes:

❑ Video Sync Generators.

The machines in this category generate standard video sync and Black burst for studio Genlock.

❑ Video Sync Converters.

The machines in this category convert between the different sync formats - Composite, separate H & V syncs; and Analog or TTL level. Sync to Green adding and Separating is also done by a machine in this category.

❑ Video Sync Restorers.

These machines restore and re-build lost or distorted sync signals, and full black burst signals.

Applications:

- ❖ Conversion between different video and audio formats, for easy linking between the elements of studio hardware.
- ❖ Chroma Key generation from different video sources.
- ❖ Special color effects generation and color correction.
- ❖ Color Bar generation, genlocked to input Black Burst.
- ❖ Sync stabilization, restoration and conversion in a video studio.

Video / Audio Format interfaces:

Model	INPUTS	OUTPUTS	FUNCTION	REMARKS
VM-3D	1 X CV	1 x Y/C	Decoder	A 12 VDC fed, mini sized Composite to Y/C Decoder.
KR-10	1 x CV 1 x Y/C	1 x Y/C 1 x CV	Transcoder	A 12 VDC fed bi-directional CV to Y/C and Y/C to CV Transcoder.
VM-19	1 x CV 1 X Y/C	RGBS	Decoder	A 19 inch, Rack mountable video Decoder.
VM-19K	1 x CV 1 X Y/C Audio	RGBS Stereo Speaker out	Decoder Amplifier	A 19 inch, Rack mountable video Decoder with an audio stereo amplifier and a built-in loudspeaker.
BC-4041C	RGBS YUV	CV Y/C	Encoder	A 19 inch, rack mountable looping video Encoder with Genlock.
BC-4042	RGBS YUV	YUV RGBS	Transcoder	A 19 inch, rack mountable, bi-directional Component Video Transcoder.
BC-4043	CV, Y/C YUV	YUV, CV Y/C	Encoder Decoder	A 19 inch, rack mountable, bi-directional Multistandard format Transcoder.
BC-4044	1 x CV 1 x Y/C	YUV RGBS	Decoder	A 19 inch, rack mountable, Multistandard Video Decoder.
BC-4208	4 x Bal. 4 x Unbal.	4 x Bal. 4 x Unbal.	Audio Transcoder	A 19 inch, rack mountable, Balanced / Unbalanced Audio Transcoder.

Video Sync Processors:

Model	INPUTS	OUTPUTS	FUNCTION	REMARKS
KR-6	1 X CV	1 x CV	Sync Stabilizer	A 12 VDC fed, compact sized, Sync Stabilizer.
KR-7	Cs, Hs, Vs	Cs, Hs, Vs	Transcoder	A 19 inch, Rack mountable universal Video Sync Transcoder.
KR-8	1 x CV	1 x CV Sync	Sync Restorer	A compact sized video Sync Restorer and Sync Separator.
KR-9	1 x CV	1 x CV Sync	Sync and Burst Restorer	A compact sized video Black Burst Restorer and Sync Separator.
KR-11	G+S G, S	G, S G+S	Sync / Green Adder - Separator	A compact sized Sync to Green Adder / Separator.
BC-6003B		Burst, Color Bar, Audio	Black Burst Generator	A 19 inch, rack mountable, Broadcast Black Burst, Color Bar and Audio Tone Generator.