

FC-4045

Multicoder® Universal Transcoder

GROUP 4



The Kramer MultiCoder® **FC-4045** is a high quality, multi-standard converter designed to encode and / or decode a video signal and simultaneously output it in the most commonly used video formats. The unit accepts a composite, s-Video (YC), component video or SDI video input, and then encodes it to all those formats. The component input may be RGsB, RGBS or Y/R-Y/B-Y, and the user may select the format of the component output. The **FC-4045** is a multi-standard device, automatically recognizing the incoming video standard, and the user selects the output standard. Standard conversion between PAL and SECAM without "bottle pulses" is possible, as is conversion between NTSC3.58 and NTSC4.43. The color subcarrier of the composite and YC outputs may be genlocked to an external video source, or generated by the units highly accurate oscillators. The machine offers user-friendly adjustment of the video parameters, and the front panel may be locked to prevent tampering with the adjustments and other settings. The unit may be controlled via RS-232, and its current settings are stored in non-volatile memory upon power down, and recalled when the machine is turned on again.



TECHNICAL SPECIFICATIONS

INPUTS:	CV/genlock: 1Vpp/75Ω on a BNC connector; YC: 1Vpp/75Ω (Y); 0.3Vpp/75Ω (C) on a 4p connector; Component: RGB: 0.7Vpp/75Ω on a BNC connectors; Sync: 0.3Vpp/75Ω on a BNC connector; (R, R-Y, B-Y): 1V, 0.7V, 0.7 Vpp/75Ω on BNC connectors; SDI: SMPTE-259M, ITU-R BT.601 serial video, 75Ω on a BNC connector.
OUTPUTS:	CV: 1Vpp/75Ω on a BNC connector; YC: 1Vpp/75Ω (Y); 0.3Vpp/75Ω (C) on a 4p connector; Component: RGB: 0.7Vpp/75Ω on BNC connectors; Sync: 5V unloaded, or 1Vpp/75Ω on a BNC connector; (R, R-Y, B-Y): 1V, 0.7V, 0.7 Vpp/75Ω on BNC connectors; SDI: SMPTE-259M, ITU-R BT.601 serial video, 75Ω on a BNC connector.
BANDWIDTH (-3dB):	5.5 MHz (Y, CV).
DIFF. GAIN:	0.33% NTSC.
DIFF. PHASE:	0.25 Deg.
K-FACTOR:	0.4%.
CONTROL:	Input, output standard and component format selection; Genlock and panel lock enable; and hue, brightness, contrast and saturation control - via front panel touch switches or RS-232.
YC DELAY:	< 20 nS.
SCH PHASE:	< 0.6 Deg.
POWER SOURCE:	230 VAC, 50/60 Hz, (115VAC, U.S.A.) 10 VA.
DIMENSIONS:	19 inch (W), 7 inch (D), 1U (H) rack mountable.
WEIGHT:	2.6 kg. (5.8 lbs.) approx.
ACCESSORIES:	Power cord.

TYPICAL APPLICATIONS

- Video production, editing, and duplication studios.

