



## TP-45

Component Video or Computer Graphics Video with Audio over Twisted Pair Transmitter



The TP-45 is a twisted pair transmitter for component video (YUV) or computer graphics video and unbalanced stereo audio or S/PDIF audio signals. The TP-45 transmitter converts audio and video to a twisted pair signal and the TP-46 converts the twisted pair signal back into audio and video signals.

### FEATURES

- HDTV Compatible.
- Max. Resolution - WUGXA (15-pin HD) & 1080p (component).
- Power Connect™ System - A single connection to the transmitter or the receiver powers both units when the devices are within 150ft (50m) of each other.
- System Range - Up to 100m (330ft).
- Cable - UTP (unshielded twisted pair) or STP (shielded twisted pair) such as CAT 5.
- Compact Kramer TOOLS™ - 3 units can be rack mounted side-by-side in a 1U rack space with the optional RK-3T rack adapter.



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### TECHNICAL SPECIFICATIONS

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INPUT:	1 VGA/UXGA 1Vpp/75Ω on a 15-pin HD connector; 1 component 1Vpp/75Ω (Y,Pb,Pr) on 3 RCA connectors; 1 stereo analog audio, 0dBu/50kΩ, 0.5V/75Ω, on a 3.5mm jack; 1 digital S/PDIF audio on an RCA connector.
OUTPUTS:	1 CAT 5 line out on an RJ-45 connector.
VIDEO MAX. INPUT LEVEL:	VGA: 1.2Vpp on 75Ω, DC coupling; Y,Pb,Pr: 1.05Vpp on 75Ω, AC coupling.
RETURN LOSS:	-18dB.
VIDEO MAX. OUTPUT LEVEL:	VGA: 1.5Vpp on 75Ω, DC coupling; Y,Pb,Pr: 1.25Vpp on 75Ω, DC coupling.
MAX. RESOLUTION:	WUGXA (15-pin HD) & 1080p (component).
VIDEO S/N RATIO:	60dB RMS unweighted; 69dB RMS @5MHz weighted.
K-FACTOR:	0.2% @optimal equalization.
ISOLATION (CROSSTALK):	-43dB @5MHz.
MAX. INPUT LEVEL ANALOG AUDIO:	4dBu on 50kΩ, AC coupling.
MAX. OUTPUT LEVEL ANALOG AUDIO:	4dBu on 1kΩ, DC coupling.
AUDIO BANDWIDTH:	20Hz to 20kHz, @0dBu.
THD+NOISE:	0.33% @0dBu @1kHz.
MAX. INPUT LEVEL S/PDIF:	1Vpp on 75Ω, AC coupling.
MAX. OUTPUT LEVEL S/PDIF:	0.7Vpp on 75Ω, AC coupling.
SAMPLE RATE CONVERSION:	48kHz.
RESOLUTION CONVERSION:	24-bits.
POWER CONSUMPTION:	12V DC, 140mA.
DIMENSIONS:	12cm x 7.15cm x 2.76cm (4.7" x 2.81" 1.09") W, D, H.
WEIGHT:	0.3kg (0.67lbs) approx.
ACCESSORIES:	Power supply.
OPTIONS:	RK-3T 19" rack adapter.