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UTP Transmission Products Single-Channel Transceivers

Overview

UTP Video-Power-Data Combiner-Transceivers are passive transceiver devices that also combine video, PTZ data and camera power over a single 4-pair UTP cable, simplifying CCTV installations in a structured wiring environment. These transceivers support cameras for up to 750 feet (228 m) with passive receivers and up to 3,500 feet (1,220 m) with active receivers. Category 5 cable connects to these models via an RJ-45 connector, including one breakout pair for power and one pair for data and a coax cable with BNC for video.

UTP transceivers are used with GE VPD combiner receivers for distances shorter than 750 feet. For longer distances at the control room, GE VPD combiners and active receivers are used and all equipment follows industry-standard EIA/TIA 568B pin-outs.

Complete with built-in surge suppression to protect video equipment against damaging voltage spikes, these units feature exceptional noise immunity to ensure quality video signals.

Standard Features (all models)

- Combines video, power and data into a single RJ-45 4-pair cable for up to 750 ft. (228 m) with passive receivers and up to 3500 feet (1220 M) with GE active receivers.
- Low cost and long range connection of video, power and data
- Compatible with all major video formats including NTSC, PAL, and SECAM
- Supports "up-the-coax" type signals allowing video and bidirectional PTZ signals to be carried
- 60 dB crosstalk and noise immunity means unit to be used in a bundle with data, audio or other low voltage signals without interference
- Compact size for easy and flexible installation
- Built-in surge protection protects connected video equipment

Single-Channel UTP Video-Power- Data Combiner- Transceivers



GEC-VPDBC



GEC-VCR



GEC-VCR12



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Specifications subject to
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Single-Channel UTP Video-Power-Data Combiner-Transceiver Comparisons

	GE SKU	GEC-VCR	GEC-VPDBC	GEC-VCR12V
GE Description				
Feature		Video, Power	Video, Power, Data	Video, Power, Data
Built-in 12VDC Converter		No	No	Yes
Dimensions (H x W x L)		0.88" x 0.88" x 0.68" 2.3 x 2.3 x 1.72 cm	2.3" x 0.72" x 0.7" 5.8 x 1.8 x 1.77 cm	1.5" x 1.25" x 0.8" 3.8 x 7.1 x 2 cm
Weight		.06 lb (25 g)	.08 lb (35 g)	.09 lb (40 g)
Specifications	Power	No power required	No power required	No power required
	Video Connector	BNC	BNC	BNC
	UTP Connector	RJ45 Connectors	RJ45 Connectors	RJ45 Connectors
	Humidity	0 to 95%, non-condensing	0 to 95%, non-condensing	0 to 95%, non-condensing
	Operating Temperature	-10°C to +50°C	-10°C to +50°C	-10°C to +50°C
	Storage Temperature	-30°C to +70°C	-30°C to +70°C	-30°C to +70°C
	Material	ABS plastic, UL rating of 91V-O	ABS plastic, UL rating of 91V-O	ABS plastic, UL rating of 91V-O

Ordering Information

GEC-VCR	Video/Power Combiner-Transceiver
GEC-VPDBC	Video/Power/Data Combiner-Transceiver
GEC-VCR12V	12 VDC Video/Power/Data Combiner-Transceiver

Agency Compliances

- UL
- cUL
- CE
- C-Tick
- WEEE



Application Diagrams

