

1T-CT-445, 1T-CT-454 and 1T-CT-458 is a comprehensive system used for the transmission of RGBHV signals at resolutions up to 1920x1200 and 1080p over Cat.5/5E or Cat.6 cable at great distances. RS-232 control sequences are also transmitted on the same Cat.5/5e or Cat.6 cables which allow remote control of distant devices. The 1T-CT-445 Transmitter is capable of up to 300 meter (1,000') range. The 1T-CT-454 receiver supports distances of up to 150M (500') and the 1T-CT-458 receiver provides at 300M (1,000') range. Both receivers provide for Equalization and Gain adjustment and the 1T-CT-458 receiver also provides Skew correction capability. The system supports the DDC2B/EDID protocol which, when used with a DDC2B/EDID monitor, provides for automatic resolution detection for the remote monitor. The power connector on all units uses an exclusive locking device to prevent inadvertent loss of power and finally an optional rack mounting kit is available if desired.



Specifications

Transmitter Specific

Video Inputs	
RGBHV VGA Standard	1x RGBHV via HD-15
Video Outputs	
RGBHV VGA Standard	1x RGBHV via HD-15
UTP Outputs	
Cat.5/5E - Cat.6	1x via RJ-45 Connector
RS-232 Inputs	
Full R/T RS-232 Control	1x via 9 pin RS-232 Connector
Video Performance	
Maximum Resolutions	Up to 1920x1200, 1080p / 60Hz
Video Bandwidth	350MHz
Input Signal Levels	Video 0.75mV, Sync 5V TTL
Horizontal Freq Range	15-70KHz
Vertical Freq Range	30-170Hz
Maximum Range	
1T-CT-445	Up to 300M (1000')
Receiver Specific	
UTP Inputs	
1T-CT-454, 458	1x via RJ-45 Connector
Video Outputs	
1T-CT-454, 458	1x RGBHV via HD-15
RS-232 Outputs	
1T-CT-454, 458	1x via 9 pin RS-232 Connector
DDC2/EDID Capability	
1T-CT-454, 458	Automatic Resolution Detection
Video Performance	
Maximum Resolutions	Up to 1920x1200, 1080p / 60Hz
Video Bandwidth	350MHz
Output Signal Levels	Video 0.75mV, Sync 5V TTL
Horizontal Freq Range	15-70KHz
Vertical Freq Range	30-170Hz

Key Features of the 1T-CT-445, 454, 458

- RGBHV Transmissions up to 1,000' via Cat.5/6
- Video Resolutions up to 1920x1200 & 1080p
- RS-232 Control Support for Remote Devices
- Remote DDC2B/EDID Auto Resolution Detection
- Equalization and Gain Adjustments
- Skew Correction (1T-CT-458 Receiver)
- Exclusive Locking DC Power Connector
- Integrated Mounting Flange
- Optional Rack Mount Kit

Maximum Range

1T-CT-454	150M (500')
1T-CT-458	300M (1000')

Signal Adjustments

1T-CT-454, 458	Equalization and Gain
1T-CT-458 Only	R-G-B Skew Compensation

Environmental

Operating Temperature	0° to +70° C (+32° to +158° F)
Operating Humidity	10% to 90%, Non-condensing
Storage Temperature	-40° to +70° C (-40° to +158° F)
Storage Humidity	10% to 90%, Non-condensing

Warranty

Limited Warranty	1Year Parts and Labor
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Regulatory Approvals

Encoder/Decoder Unit	FCC, CE, RoHS
Power Supply	UL, CUL, CE, PSE, GS, RoHS

Cable Requirements

CAT.5/5E or CAT 6	Network Grade, Premium Cables
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Power Requirement

1T-CT-445, 454 and 458	Ext P.S. +5 VDC@2A
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Accessories Included

1x Power Adapter	US, UK or Euro
1x User Manual	

Mechanical (H-W-D)

All Models	89x141x32mm (1.26"x5.5"x3.5")
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Weight

All Models	240g (0.53 lbs)
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Model Numbers

1T-CT-454	Receiver w/Stereo & RS-232
1T-CT-458	Receiver w/Stereo & RS-232

Optional Accessories

RM-370T Rackmount	All Models
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CAT.5 Extender

Models 1T-CT-445, 454, 458

Panel Drawings

