

**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 2 Years Parts and Labor

### 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

### Power Requirement

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

### 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")

### Weight

All Models 240g (0.53 lbs)

### 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

## Panel Drawings

