CAT.5 Extenders

Models 1T-CT-400 Series

1T-CT-400 Series is a comprehensive system for the transmission of RGBHV or YPbPr video at resolutions up to 1920x1200 and 1080p, plus digital or analog audio signals over Cat.5/5E or Cat.6 cable at great distances. The mix and match approach to the product line enables the user to choose the most cost efficient units to perform a specific task. Rackmount options are available for all models for ease of systems integration. All products use the unique TV One-task locking power connectors to enhance overall system security.

Transmitters – Four transmitter models are available, allowing the selection of the features necessary for the specific application at hand. All transmitters are capable of distances up to 300 meters (1,000 feet), some providing analog and digital audio capability. Three models handle RGBHV, one of which has 8 UTP Outputs, and one handles YPbPr format. Three models provide audio support. In addition to those transmitter models, two CORIO2 Video Scaler/Switchers have an integral UTP output. Models C2-1200 and C2-1250 can output either RGBHV or YPbPr format video signals to distances up to 300 meters (1,000 feet) without audio. Select the appropriate transmitter using the reference charts below.

Receivers - Five Receiver models continue the theme of flexibility, allowing the selection of the appropriate unit to provide distances of up to either 150 meter (500 feet) or 300 meter (1,000 feet). Choose models with or without audio as the application dictates. The long range models have built-in RGB Skew Compensation adjustments. The 1T-CT-456 has a built-in UTP Repeater that allows another receiver to be cascaded up to an additional 300 meters (1,000'). Select the appropriate receiver using the reference charts that follow.

Key Features of the 1T-400 Series

- Models for RGBHV or YPbPr format
- Resolutions to 1920x1200, 1080p @ 60Hz
- Some Models with Digital and Analog Stereo
- One Model has built-in UTP Repeater for cascading
- One Model has multiple UTP outputs
- Ranges up to 300 Meters (1,000 Feet)
- Locking power supply for security
- Optional Rackmount Kits available

Transmitters

- 4 Models available for maximum flexibility
- 2 C2 Video Switcher/Scaler models with UTP Out
- All Models with 300 meter (1,000') maximum range
- 3 Models with RGBHV only – 1T-CT-441, 443, 467
- 1 Model with YPbPr only – 1T-CT-453
- 2 Models with RGBHV/YPbPr – C2-1200, 1250
- 3 Models with Stereo – 1T-CT-443, 453, 467 (with Audio monitoring output)
- 1 Model with 8 UTP Outputs – 1T-CT-467
- All Models with Video loop-thru for monitoring

Receivers

- 5 Models available for maximum flexibility
- 3 Models with 500' range – 1T-CT-442, 452
- 3 Models with 1,000' range – 1T-CT-444, 456, 464
- 4 Models for RGBHV – 1T-CT-442, 444, 452, 456
- 1 Model for YPbPr – 1T-CT-464
- 3 Models with Stereo – 1T-CT-452, 456, 464
- 1 Model with built-in UTP Repeater – 1T-CT-456
- 2 Models with built-in Skew Compensation adjust
- All Models with Equalization and Gain adjustments
- 3 Models compatible with C2-1200/1250 Scalers

FEATURE & COMPATIBILITY CHART

Choose the Receiver with the desired features, then a compatible Transmitter with the desired features to match.

		Receiver Key Features				
		RGBHV 500' Max No Audio	RGBHV 1000' Max No Audio Skew Comp	RGBHV 500' Max Stereo	RGBHV 1000' Max Stereo Skew Comp Repeater	YPbPr 1000' Max Stereo
Transmitter Key Features	**Model**	**1T-CT-442**	**1T-CT-444**	**1T-CT-452**	**1T-CT-456**	**1T-CT-464**
RGBHV, No Audio	**1T-CT-441**	●	●			
RGBHV, Analog Stereo, S/PDIF	**1T-CT-443**	●	●	●	●	
YPbPr, Analog Stereo, S/PDIF	**1T-CT-453**					●
RGBHV, Analog Stereo (8-Out)	**1T-CT-467**	●	●	●	●	
RGBHV, YPbPr, No Audio	**C2-1200**	●	●			●
RGBHV, YPbPr, No Audio	**C2-1250**	●	●			●

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Transmitter Model	Signal Type	Stereo Audio	Maximum Distance	UTP Out	Compatible 1T-CT Receivers
1T-CT-441	RGBHV	None	300M (1000')	1	442, 444
1T-CT-443	RGBHV	Analog & S/PDIF	300M (1000')	1	442, 444, 452, 456
1T-CT-453	YPbPr	Analog & S/PDIF	300M (1000')	1	464
1T-CT-467	RGBHV	Analog	300M (1000')	8	442, 444, 452, 456
C2-1200/1250	RGBHV/YPbPr	None	300M (1000')	1	442, 444, 464

1T-CT-441

- RGBHV In via HD-15 w/Loop-thru
- Range to 300M, depending on Rx

1T-CT-443

- RGBHV In via HD-15 w/Loop-thru
- Analog Stereo In via 3.5mm Mini with Loop-thru
- S/PDIF Audio In via Toslink
- Range to 300M, depending on Rx

1T-CT-453

- YPbPr In via 3 RCA
- Analog Stereo In via 3.5mm Mini with Loop-thru
- S/PDIF Audio In via Toslink
- Range to 300M, depending on Rx

1T-CT-467

- 8x UTP Outputs
- RGBHV In via HD-15 w/Loop-thru
- Analog Stereo In via 3.5mm Mini
- Range to 300M, depending on Rx

Receiver Model	Signal Type	Stereo Audio	Maximum Distance	Built-in RGB Skew Comp	Compatible 1T-CT Transmitters
1T-CT-442	RGBHV	None	150M (500')	No	441,443, 467
1T-CT-444	RGBHV	None	300M (1000')	Yes	441,443, 467
1T-CT-452	RGBHV	Analog & S/PDIF	150M (500')	No	443, 467
1T-CT-456 (1)	RGBHV	Analog & S/PDIF	300M (1000')	Yes	443, 467
1T-CT-464	YPbPr	Analog & S/PDIF	300M (1000')	No	453
Note: (1) This model has a built-in Cat.5 Repeater to drive another Receiver at up to 1000'.					

1T-CT-442

- RGBHV Output via HD-15
- Range up to 150M (500')
- Equalization and Gain Adjust

1T-CT-444

- RGBHV Output via HD-15
- Range up to 300M (1,000')
- Equalization and Gain Adjust
- Built-in RBG Skew Comp

1T-CT-452

- RGBHV Output via HD-15
- Analog Stereo Out via 3.5mm Mini
- S/PDIF Audio Output via Toslink
- Range up to 150M (500')
- Equalization and Gain Adjust

1T-CT-456

- RGBHV Output via HD-15
- Analog Stereo Out via 3.5mm Mini
- S/PDIF Audio Out via Toslink
- Range up to 300M (1,000')
- Equalization and Gain Adjust
- Built-in RBG Skew Comp
- Built-in UTP Repeater Output

1T-CT-464

- YPbPr Output via 3 RCA
- Analog Stereo Out via 3.5mm Mini
- S/PDIF Audio Out via Toslink
- Range up to 150M (500')
- Equalization and Gain Adjust

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Specifications – Transmitters

Video Inputs	
1T-CT-441, 443, 467	1x RGBHV via HD-15
1T-CT-453	1x YPbPr via 3 RCA
Video Loop-thru Outputs	
1T-CT-441, 443, 467	1x RGBHV via HD-15
Audio Inputs	
1T-CT-441	None
1T-CT-467	1x Analog Stereo via 3.5mm
1T-CT-443, 453	1x Analog Stereo via 3.5mm 1x S/PDIF via Toslink
Audio Monitoring Outputs	
1T-CT-441	None
1T-CT-443, 453, 467	1x Analog Stereo via 3.5mm
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
Audio Performance	
Input Sampling Rates	32, 44.1, 48, 96KHz
Maximum Range	
All Models	300m (1000'), depending on Receiver selected
UTP Output Connectors	
1T-CT-441, 443, 452	1x RJ-45
1T-CT-467	8x RJ-45
Mechanical (H-W-D)	
1T-CT-441, 443, 453	88x141x32mm (1.26x5.5x3.5")
1T-467	44x213x134mm (1.75x8.4x5.3")
Weight	
1T-CT-441, 443, 453	224g (0.53 lbs)
1T-CT-467	860g (1.9 lbs)
Power Requirement	
1T-CT-441, 443, 453	5 VDC@2A, Locking DC
1T-CT-467	100-240VAC, 50-60Hz
Accessories Included	
1x Power Adapter	US, UK or Euro (except 1T-CT-467)
1x User Manual	1T-CT-400 Series
Optional Accessories	
RM-370T Rackmount	3 units – 1T-CT-441, 443, 453
RM-360S Rackmount	1 unit – 1T-CT-467
Model Numbers	
1T-CT-441	For RGBHV
1T-CT-443	For RGBHV, Stereo
1T-CT-453	For YPbPr, Stereo
1T-CT-467	For RGBHV, Stereo w/8 UTP Out

Note

Video Switcher/Scaler Models C2-1200 and C2-1250 have UTP outputs that can transmit either RGBHV or YPbPr to distances up to 300 meters without audio. Check the Spec Sheets for those products for full details. These units are compatible with UTP Receiver models 1T-CT-442, 444, 464.

Specifications - Receivers

UTP Inputs	
1T-CT-442, 444, 452	1x RJ-45
1T-CT-456, 464	1x RJ-45
UTP Outputs	
1T-CT-456	1x RJ-45 for UTP Repeater Out
Video Outputs	
1T-CT-442, 444, 452, 456	1x RGBHV via HD-15
1T-CT-464	1x YPbPr via 3 RCA
Audio Outputs	
1T-CT-442, 444	None
1T-CT-452, 456, 464	1x Analog Stereo via 3.5mm 1x S/PDIF via Toslink
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
Audio Performance	
Output Sampling Rate	32KHz
Maximum Range	
1T-CT-442, 452	150m (500'), RGBHV Out
1T-CT-444, 456	300m (1000'), RGBHV Out
1T-CT-464	300m (1000'), YPbPr Out
Adjustments	
All Models	Equalization and Gain
1T-CT-444, 456	RGB Skew Compensation
Mechanical (H-W-D)	
All models	89x141x32mm (1.26x5.5x3.5")
Weight	
All Models	240g (0.53 lbs)
Power Requirement	
External Power Supply	+5 VDC@2A, Locking DC
Accessories Included	
1x Power Adapter	US, UK or Euro
1x User Manual	1T-CT-400 Series
Optional Accessories	
RM-370T Rackmount	3 units – All Models
Model Numbers	
1T-CT-442	For RGBHV to 150m
1T-CT-444	For RGBHV to 300M
1T-CT-452	For RGBHV to 150m w/Stereo
1T-CT-456	For RGBHV to 300m w/Stereo
1T-CT-464	For YPbPr to 150m w/Stereo

Specifications – Common to all 1T-CT-400 Series Models

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	1 Year 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

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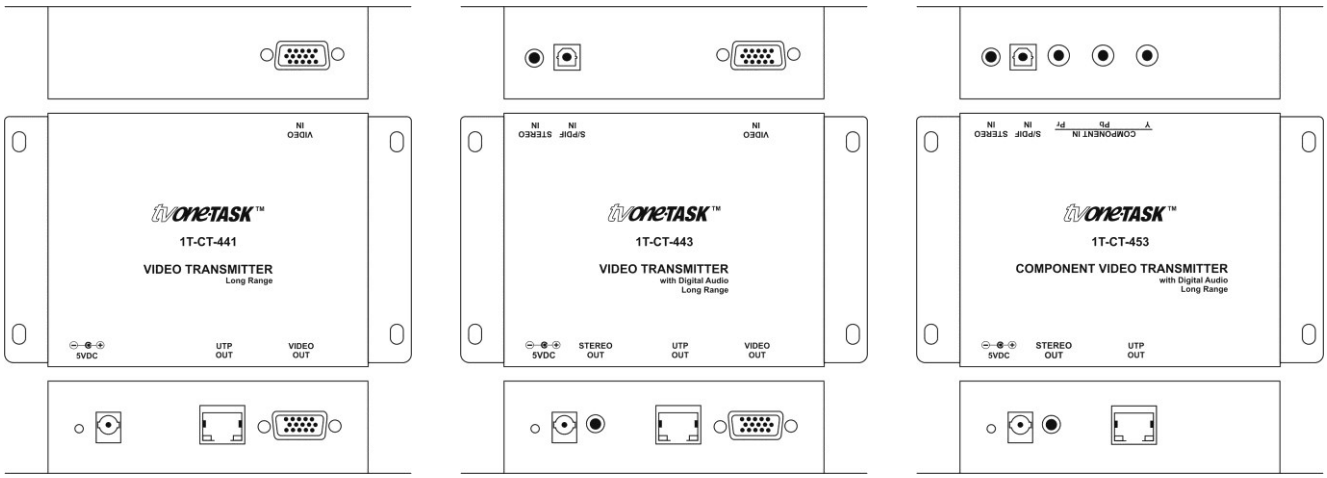
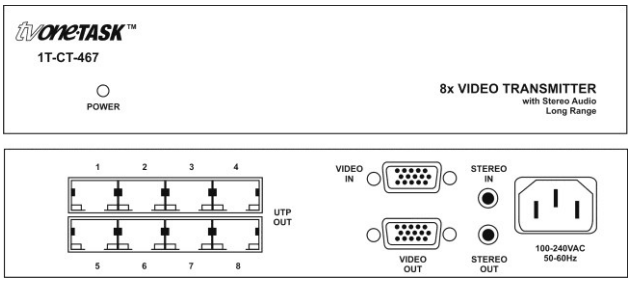
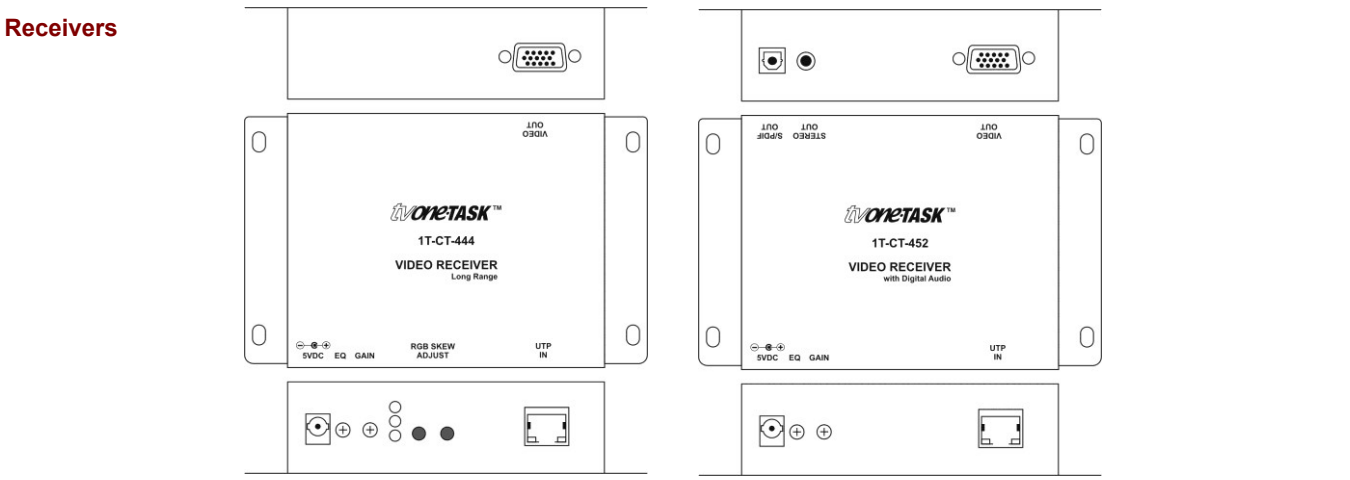
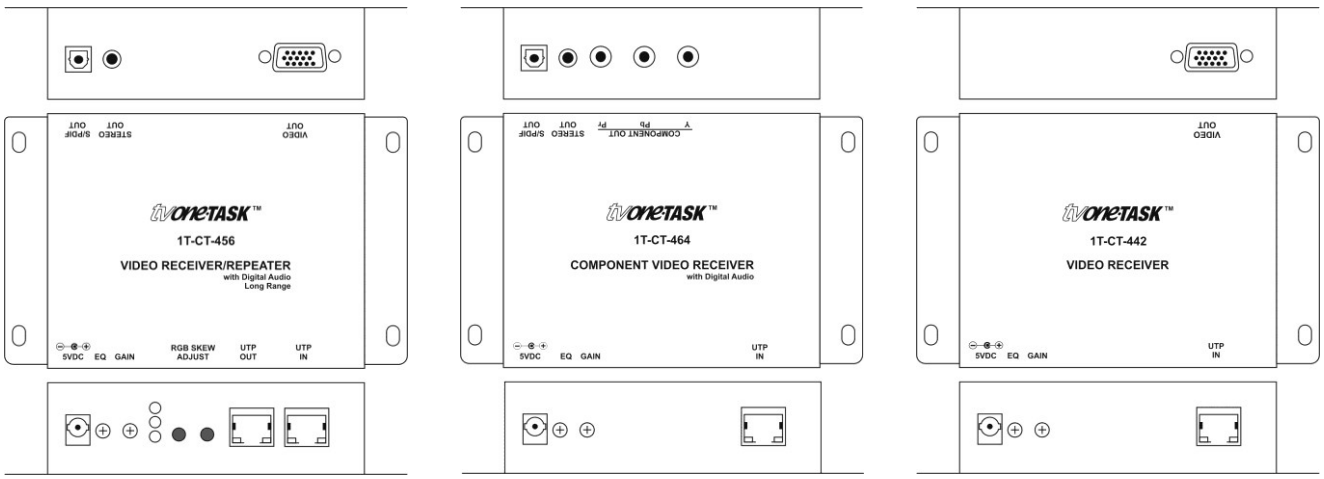
Panel Drawings

Transmitters





Receivers