

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 – Three 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. Two models handle RGBHV and one handles YPbPr format. Two 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
- Ranges up to 300 Meters (1,000 Feet)
- Locking power supply for security
- Optional Rackmount Kits available

Transmitters

- 3 Models available for maximum flexibility
- 2 C2 Video Switcher/Scaler models with UTP Out
- All Models with 300 meter (1,000') maximum range
- 2 Models with RGBHV only – 1T-CT-441, 443
- 1 Model with YPbPr only – 1T-CT-453
- 2 Models with RGBHV/YPbPr – C2-1200, 1250
- 2 Models with Stereo – 1T-CT-443, 453 (with Audio monitoring output)
- 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		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
Choose the Receiver with the desired features, then a compatible Transmitter with the desired features to match.						
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, YPbPr, No Audio	C2-1200	●	●			●
RGBHV, YPbPr, No Audio	C2-1250	●	●			●

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
C2-1200/1250	RGBHV/YPbPr	None	300M (1000')	1	442, 444, 464



1T-CT-441

- RGBHV In via HD-15 w/Loop-thru
- Max Res 1920x1200, 1080p
- Range to 300M, depending on Rx



1T-CT-443

- RGBHV In via HD-15 w/Loop-thru
- Max Res 1920x1200, 1080p
- 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
- Max Res 1920x1200, 1080p
- Analog Stereo In via 3.5mm Mini with Loop-thru
- S/PDIF Audio In via Toslink
- 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, 465, 567
1T-CT-444	RGBHV	None	300M (1000')	Yes	441, 443, 465, 567
1T-CT-452	RGBHV	Analog & S/PDIF	150M (500')	No	443, 465, 567
1T-CT-456 (1)	RGBHV	Analog & S/PDIF	300M (1000')	Yes	443, 465, 567
1T-CT-464	YPbPr	Analog & S/PDIF	300M (1000')	No	453, 465, 567

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
- Max Res 1920x1200, 1080p
- Range up to 150M (500')
- Equalization and Gain Adjust



1T-CT-444

- RGBHV Output via HD-15
- Max Res 1920x1200, 1080p
- Range up to 300M (1,000')
- Equalization and Gain Adjust
- Built-in RGB Skew Comp



1T-CT-452

- RGBHV Output via HD-15
- Max Res 1920x1200, 1080p
- 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
- Max Res 1920x1200, 1080p
- 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 RGB Skew Comp
- Built-in UTP Repeater Output



1T-CT-464

- YPbPr Output via 3 RCA
- Max Res 1920x1200, 1080p
- Analog Stereo Out via 3.5mm Mini
- S/PDIF Audio Out via Toslink
- Range up to 150M (500')
- Equalization and Gain Adjust



CAT.5 Extenders

Models 1T-CT-400 Series

tvoneTASK

Specifications – Transmitters

Video Inputs

1T-CT-441, 443	1x RGBHV via HD-15
1T-CT-453	1x YPbPr via 3 RCA

Video Loop-thru Outputs

1T-CT-441, 443	1x RGBHV via HD-15
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Audio Inputs

1T-CT-441	None
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	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
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Maximum Range

All Models	300m (1000'), depending on Receiver selected
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UTP Output Connectors

1T-CT-441, 443, 452	1xRJ-45
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Mechanical (H-W-D)

1T-CT-441, 443, 453	88x141x32mm (1.26x5.5x3.5")
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Weight

1T-CT-441, 443, 453	224g (0.53 lbs)
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Power Requirement

External Power Supply	5 VDC@2A, Locking DC
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Accessories Included

1x Power Adapter	US, UK or Euro
1x User Manual	1T-CT-400 Series

Optional Accessories

RM-370T Rackmount	3 units – 1T-CT-441, 443, 453
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Model Numbers

1T-CT-441	For RGBHV
1T-CT-443	For RGBHV, Stereo
1T-CT-453	For YPbPr, Stereo

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	1xRJ-45
1T-CT-456, 464	1xRJ-45

UTP Outputs

1T-CT-456	1xRJ-45 for UTP Repeater Out
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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
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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")
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Weight

All Models	240g (0.53 lbs)
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Power Requirement

External Power Supply	+5 VDC@2A, Locking DC
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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
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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	3 Years Parts and Labor
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Regulatory Approvals

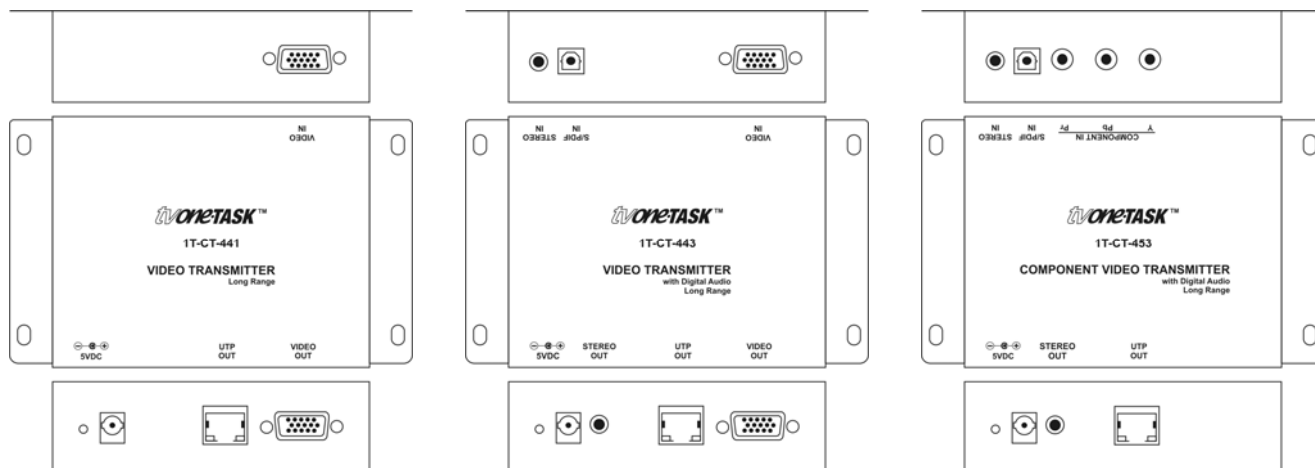
Encoder/Decoder Unit	FCC, CE, RoHS
Power Supply	UL, CUL, CE, PSE, GS, RoHS

Cable Requirements

CAT.5/E or CAT 6	Network Grade, Premium
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Panel Drawings

Transmitters



Receivers

