ZISTOS® Expanding Your Vision®

PORTABLE VIDEO SYSTEMS

DUAL MODE THERMAL CAMERA THC-50D

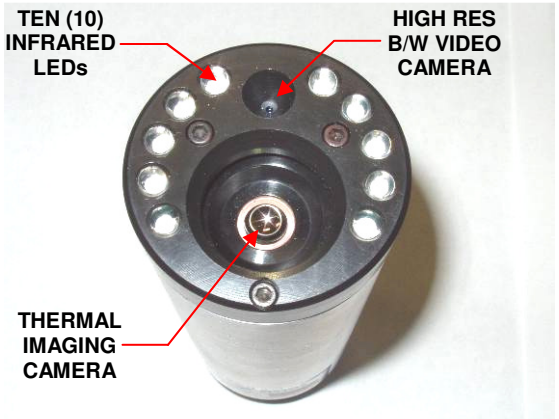
Zistos' Dual Mode Thermal Camera Combines the Benefits of Remote Thermal Imaging and Low-Light, High-Resolution, B/W Video into a Compact Enclosure.

THC-50D Dual Mode Thermal Camera Features:

- ✓ Ideally Suited for Both Tactical and Rescue Missions Alike
- ✓ Instantaneously Switch Between Thermal and B/W Video Camera
- ✓ Variable Intensity IR Illumination When Used in B/W Video Mode
- ✓ Slim 1.9" Diameter Housing Affords Remote Access Into 2" Core Holes
- ✓ Attaches to any Zistos Extension Pole for a wide range of 2' to 20' reach
- ✓ Forward/Backward Compatible with all Forthcoming/Existing Zistos Products

		Thermal Imaging Camera	B/W Video Camera
Core Camera Technology	Material & Structure	Amorphous Silicon Microbolometer (160 x 120 pixel array)	CCD Camera Chip
	Spectral Response	7 – 14 µm (filter bandwidth)	N/A
	Sensitivity	<50 mK	0.005 lux
Thermal System Imaging Performance	Start-Up Time	2.4 sec ±10% @ 25°C	N/A
	Contrast / Brightness	Automatic/Advanced Image Processing	
	Range to Detect Human Activity	Up to 330 feet (100 meters)	
Optics	FOV	5.8 mm focal length 50° horz. x 37° vert.	4.3 mm focal length
	Focus	Fixed	
Overall Physical Characteristics	Size	1.9" Diameter x 6.5" Long	
	Weight	13 ounces	
	Operating Temp.	- 4° to 185° F	
	Storage Temp.	- 40° to 221° F	

THC-50D SPECIFICATIONS



THC-50D CAMERA HEAD

SHOWN ON ARTICULATING POLE

Zistos Corp ■ 1736 Church St. ■ Holbrook, NY 11741 ■ Ph (631) 434-1370 ■ Fax (631) 434-9104 ■ www.zistos.com ■ email: info@zistos.com

ZISTOS® Expanding Your Vision®

PORTABLE VIDEO SYSTEMS

DUAL MODE THERMAL CAMERA THC-50D

Ordering information			
Model	**Video Format**	**Temperature Scale**	**Temperature setting**
THC-50D	NTSC	Fahrenheit	High Range[1]
THC-50DC	NTSC	Celsius	High Range[1]
THC-50DP	PAL	Celsius	High Range[1]
THC-50D-L	NTSC	Fahrenheit	Low Range[2]
THC-50DC-L	NTSC	Celsius	Low Range[2]
THC-50DP-L	PAL	Celsius	Low Range[2]

Temperature setting					
Temperature Setting	**Temperature Range**				**Color**
	Celsius		**Fahrenheit**		
	From	**To**	**From**	**To**	
High Range[1]	--	260	--	500	White
	260	427	500	800	Yellow
	427	538	800	1000	Orange
	538	600	1000	1112	Red
	600	--	1112	--	Grey
Low Range[2]		55	--	131	Grey
	55	75	131	167	Yellow
	75	100	167	212	Orange
	100	230	212	446	Red
	230	--	446	--	Grey

Notes:

1) High Range is typically used for fire fighting.

2) Low Range is typically used for all applications, other than fire fightling.

Zistos Corp ■ 1736 Church St. ■ Holbrook, NY 11741 ■ Ph (631) 434-1370 ■ Fax (631) 434-9104 ■ www.zistos.com ■ email: info@zistos.com