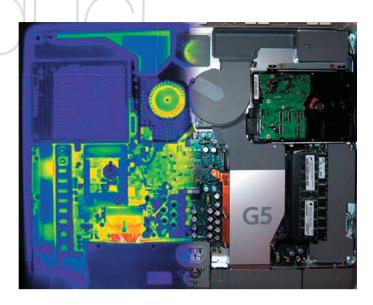
### PORTABLE THERMOGRAPHY SYSTEMS



Introducing TVS-500 EX



# Thermal and Visible... FUSED.

Electrophysics TVS-500 EX ushers in new advanced features designed to enhance thermographic analysis of a wide range of objects under evaluation. Our new image fusion function enables the camera operator to mix thermal and visible video into fused real-time video with control over each channel's contribution. An easy-to-use control permits the display to be adjusted from 100% thermal imaging to 100% visible imaging. In addition, a new autothermal scaling automatically displays thermal image detail within a userspecified temperature range overlaid over high-quality visible images.



▲ Ergonomic controls at your ¶ngertips

The ergonomic, lightweight, waterproof (IP-54 rated) camera body makes it easy to control in the fleld. Select from a number of in-camera analysis tools including multiple point measurement, temperature alarm set point, area analysis, isotherm and auto hot/cold spot tracking. Measure temperatures up to 500°C/932°F (optionally 900°C/1652°F and 2000°C/3632°F) or as cold as -40°C (104°F) and record images in both 14-bit and standard JPEG flle formats. The TVS-500 EX features a new intelligent auto-scale capability based on four unique auto-scale techniques designed for speciflc applications.

TVS-500 EX produces stunning thermal images at 60Hz with high resolution and high sensitivity. The camera has 7 unique color palettes that assure the best possible colorization for the application. When extra sensitivity is required, simply turn on the advance frame averaging function and improve the camera's sensitivity to better than 0.06°C (32.108°F).

TVS-500 EX has it all... great image, accurate measurement, best-in-class feature list, dual infrared and visible capability, and the best PC-based application software in the industry. Call us today to arrange a demonstration of the new standard in advanced thermography cameras.



**Powerful Image Fusion** User-variable mixing of infrared and visible video.



## 60Hz Frame Rate

Image moving targets better than 30Hz cameras.



**Ergonomic Design** Lightweight and easy to hold.



#### Industry-standard Interface

FireWire, USB and CF memory provide easy interface to PCs.



## Advanced Features

Multi-mode auto-temperature settings, hot/cold spot tracking, interval recording and many more.



#### Highly Advanced Software Packages

for PdM report writing and real-time image recording and analysis.



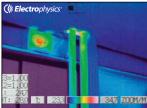
## ADVANCED INFRARED SYSTEMS

## APPLICATIONS

## TVS-500 EX IS A POWERFUL TOOL



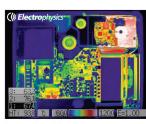
Process Control



Building Diagnosis

Test and Measurement





390 06701

Research and Development

## STANDARD CONFIGURATION

TVS-500 EX Shoulder Strap Battery Pack

Real-time PC-based Analysis

AC Adapter Card Adapter Battery Charger Operating Manual CF Card (64MB)

## ORDERING CONFIGURATION

ltem	Description
914717	TVS-500 EX Thermal Imaging Camera
914728	0.5X Wide Angle Lens
914725	2X Telephoto Lens
914722	3X Telephoto Lens
914729	Close-up Lens (100µ)
914730	IEEE-1349 Kit
924001	High Temperature Filter (900°C / 1652°F)
924002	High Temperature Filter (2000°C / 3632°F)
914732	Rechargeable Battery
914735	LCD Hood
914734	Remote Control
914667	Thermography Real-time Analysis Software
914405	EZ ReportIR Reporting Software



# TVS-500 EX SPECIFICATIONS

	TVS-500 EX SPECIFICATION:
Thermal Camera	
FoV (HxV) / Min. Focal Distance	30.6° x 23.1° / 30cm (11.81") to ∞
Uncooled Array Type (HxV)	FPA, 320x240 VOx microbolometer
Frame Rate	60Hz
Resolution	1.68 mrad
Thermal Sensitivity	Better than 0.06°C (32.108°F) with averaging
Spectral Response	8 to 14 microns (µm)
Visible Camera	640 x 480
Dynamic Range	14-bit
Image Presentation	
Display	3.5" Transflective Color LCD Monitor
Measurement	
Point Temperature Readout	5 points
Point Emissivity Compensation	5 points (back calculation)
Max./Min. Temperature Tracking	Yes
lsotherm	High / Low / Center
Spot Meters	5 (4 user-selectable placement)
Area	1 user-selectable placement; Min/max and average
Profile	1 user-selectable placement
Correction Factors	Emissivity, background, ambient
	-40°C to 500°C (-40°F to 932°F)
Measurement Range	Optional 900°C and 2000°C (1652°F to 3632°F)
Accuracy	±2°
Image Processing	
Mixing Image Display	Mixing of thermal image and visible image display with sequential ration change
Auto-Temperature Tracking	Auto-Sense / Auto-Point / PPM / R&D / Medical
Digital Zoom	2X, 4X Scroll, Area Scroll
Freeze	On / Off
Grid Display	Yes
Alarm	
Signal Output	Alarm display over high and low temp. threshold (single/continuous)
Image Recording	Yes; Alarm triggered
Color Palette	Rainbow / Rainbow Contrast / Hotiron / Ironbow / Hotwhite / Hotblack
Image Improvement	Averaging (2, 4, 8, 16 frames)
Image Recording	
Image Download	CF card
Other Function	Emissivity compensation, day and time display, battery volume, memo, last memory
Internal Storage	150 frames / 64MB, up to 512MB
Modes	CF Format / Delete / Make Directory / File Name Input / One Shot Rec / Interval Rec / One Shot Playback / Gallery Display / File Name Display
Image Format	IRI, BMP, LOG (IR image), JPEG (visible image), BMP (mixing image)
Interval Record	Simultaneous record of thermal, visible, mix
Environmental	
Operating Temperature Range / Humidity	-10°C to 50°C (14°F to 122°F) / 80% non-condensing
Temperature Unit	°C / F / K
Enclosure Protection	IP-54
Shock	30G IEC60068-2-27
Vibration	3G IEC60068-2-6
Electrical	
Power	AC adapter, Long-life battery (optional)
Battery	Li-ion
Battery Operating Time	2 hrs. or more; Optional 4 hrs. or more available
Physical	1.7kg / 2.7lb
Weight (including lens)	1.7kg / 3.7lb
Size	4.5"x 8.6"x 3.5" (115 x 220 x 90 mm)

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