



The VideoTherm® 2000 Thermal Imaging Camera (TIC)

[Color Uncooled Focal Plane Array]

Portable Infrared Imaging System

MSA is pleased to introduce our first custom color uncooled focal plane array thermal imaging system, the VideoTherm 2000 TIC!

This high-resolution, lightweight camera utilizes an uncooled focal plane array architecture, composed of 76,800 individual pixels. This results in a well-defined thermal image of 320 x 240 pixels, imaging in the 8 to 14 micron region. VideoTherm 2000 Series cameras are designed to give you clear, high resolution images enhanced through the use of a high performance detector. This will allow for fast complete analysis of images.

The Power of The Color Uncooled Focal Plane Array

The VideoTherm 2000 System utilizes a "core assembly," which is manufactured by Raytheon Commercial Infrared and extensively modified by MSA to add features and benefits required for a wide variety of thermographic applications.

This specially designed camera makes it possible for you to pick the features that you need now! Features can be added at any time, such as a visual camera, graphic temperature, and/or color/isotherm. As the scope of your program changes, your system can also be changed. This design approach enables you to invest in what you need and upgrade later!

Features Include:

- Graphic display of time, date, and annotation
- User-programmable annotation line
- Integrated non-contact thermometer (F and C)
- Color and monochrome imaging
- Isotherm
- Field-interchangeable lenses
- Camcorder-battery operated
- Video and audio storage via 8mm compact VCR
- Report generation software

Powerful Choices

The VideoTherm 2000 TIC is so lightweight and portable that we are now offering a rechargeable camcorder battery as the power source. We also offer custom utility belts for surveys that require extended amounts of time out in the field. Either power source allows quick and easy recharging!



Formerly I.S.I. Group, Inc.
Albuquerque, New Mexico



System Specifications

Camera Specifications

Detector Type:	Uncooled FPA (320 x 240 pixels)
Spectral Range:	8 - 14 microns
Cooling:	None required
Thermal Resolution:	> 0.1°C
Temperature Range:	-30°C to +1,375°C nominal
Color Gray Levels:	256
Color Palettes:	Color, monochrome, Isotherm
Image Storage:	8mm videotape

Lenses

Focal Length	Focal View	Focal Range	IFOV
75mm	11.81° x 8.88°	36" to infinity	0.644 mrad
50mm f/0.8	17.64° x 13.28°	24" to infinity	0.962 mrad
50mm f/1.0	17.64° x 13.28°	15" to infinity	0.969 mrad
25mm	34.49° x 26.21°	2" to infinity	1.880 mrad

Non-Contact Thermometers

Temperature Range:	-30°C to +1,100°C
Sensitivity:	1°C
Emissivity Compensation:	.01 to .99 in .01 increments
Accuracy:	±0.5% full-scale
Repeatability:	1°C

Visual Camera

Pictorial Resolution:	510 H * 492 W
Field of View:	"W" (Wide Angle): 3.5mm = 73° H * 56° V "T" (Telephoto): 8mm = 40° H * 33° V
Focal Range:	12" to infinity

Dimensions

Camera only:	4.3" W * 6.4" D * 4.7" H
Weight (color camera):	3 lbs., 15 oz.
Weight (monochrome):	3 lbs., 7 oz.
50mm lens:	13.5 oz.
50mm lens:	1 lb., 8 oz.
25mm lens:	15 oz.
Battery:	11V oz.

About MSA

MSA is committed to providing quality products and services. VideoTherm infrared imaging systems have been manufactured for a variety of applications since 1975. Our ongoing research and development, as well as our exhaustive quality control programs, have helped us develop lightweight, reasonably-priced, and feature-packed infrared systems.

The VideoTherm 2000 TIC is sold by our specially trained sales representatives, who are dedicated to serving your needs. Your representative and a factory-supplied manual provide initial operation training.

The VideoTherm 2000 TIC carries a two-year warranty!

Take a look at our feature-packed, affordable infrared systems today.

Visit our web site at

www.isigroup.com

or call

1-800-821-3642

Note: This Bulletin contains only a general description of the products shown. While uses and performance capabilities are described, under no circumstances shall the products be used by untrained or unqualified individuals and not until the product instructions including any warnings or cautions provided have been thoroughly read and understood. Only they contain the complete and detailed information concerning proper use and care of these products.

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