

REG FARRELL ENGINEERING LIMITED

Distributors of Electro-Technical Engineering & Safety Equipment

Solving Problems ... Providing Solutions



HM 300 Thermal Imaging Camera

The infrared cameras in the hotfind L Series are easy-to-use thermographic cameras which offer unbeatable value for money. The integrated high-performance UFPA detector ensures short reaction times and delivers amazingly crisp and precise thermal images.

Precise temperature measurement

A very high thermal sensitivity of only 80 mK and an extensive measuring range of up to +1,500 °C allow extremely precise measurements to be made. The four moveable measuring points offer a much higher degree of flexibility when carrying out checks. The fully radiometric infrared images can be subsequently evaluated on your PC.

High resolution sensor

The infrared cameras in the hotfind L Series are all equipped with a high-performance infrared sensor with a resolution of **384 x 288 pixels** (the equivalent of 110,592 temperature measuring points). In addition, the L Series features an extremely high geometric resolution of 1.3mrad.

DuoVision

The cameras in the hotfind L Series are additionally equipped with a digital camera. DuoVision Technology does not only allow the exclusive depiction of either infrared or real images, but also the presentation of overlapping images containing information from both image sources that can be individually set to one of four overlapping stages, designed to give the user a better overview and facilitate a more accurate diagnosis.

Robust and ergonomic design

The hotfind L Series is IP 54 dust and splashproof rated and can be operated at temperatures between -20 °C and +50 °C. The cameras are shock-tested up to 25G and vibration-tested up to 2G. This means that the infrared cameras in the hotfind L Series can be used in almost all areas for virtually all industrial applications. The patented 2.5-inch pivoting LCD monitor can be aligned to suit just about any requirement.

Application

The hotfind L Series has a maximum focusing distance of only 100 mm. This allows precise measurements to be carried out with a standard lens (e.g. circuit board diagnosis).

Interchangeable memory medium (mini SD card) and non-stop operation

The cameras are equipped with an interchangeable memory (**mini SD card**) for thousands and thousands of images. The energy saving mode also allows non-stop measurements to be carried out for as long as 2.5 hours.

Optional Accessories / Bluetooth

There is a broad spectrum of lenses available, e.g. a wide-angle lens and different telephoto lenses and software packages. The SDS analysis software provides professional solutions for analyses and documentation. In addition, we also provide **Bluetooth connectivity** for voice recording and reproduction.

SAT-HM300 Technical Specifications	
Image Performance	
Detector	
Type	Uncooled Microbolometer FPA
Spectral Range	8 – 14 micron
Resolution	384x288
Imaging Performance	
Lens/Focusing	24° x 18° /Manual Focusing
Thermal Sensitivity @ 50/60 Hz	80 mk @30 ° C
Visual	
Built-in Digital Video	640 x 480 Pixels, Full Colour
Illuminator	To Produce clear, high quality visual images in the dark areas
Features	
Video Output	PAL/NTSC
Image Display	Pseudo-Colour, Multi-Palettes
Image Presentation	
Image Freeze	Live or Freeze
File Function	Removable mini SD Card, Extendable up to 2 GB
Measurement	
Temperature Range	-20° C - 250°C (Standard) Up to +1500 °C (Optional Extra)
Accuracy	+/- 2°C or +/-2%
Analysis Functions	
Spot	4 Spots: 3 of them full-screened moveable
Temperature Tracking	Tracking the highest or lowest temperature spot automatically in the whole image
Temperature Alarm	Preset the alarm temperature value and camera will show alarm when over or below it: beep when alert
Adjustment	Level and span can be adjusted automatically or manually
Correction	Emissivity, Distance, Environmental temperature, relative humidity
Software	
Analysis Software	Report Generation Software
Laser Pointer	
Type	Type II
Power Consumption	1mw
Wavelength	635nm (red)
System	
Settings	Time, Date, °C or ° F,
Dormancy	Automatically
Power Supply	Lithium battery, or 8 – 11V DC supply to charge the battery inside
BWT	3 Hours Continuous Operation
Environmental Specification	
Operating Temperature	-15° C - 50°C
Storage Temperature	- 40°C - 70°C
Relative Humidity	10 – 95 %
Interfaces	
USB	Thermal Video transfers in real time with software (optional extra)
Bluetooth	Voice recording and playback (Optional extra)
Physical Characteristics	
Weight	650g
Size (LxWxH)	211mm x 80mm x 195mm
Tripod Mounting	Yes
Price	€4,950