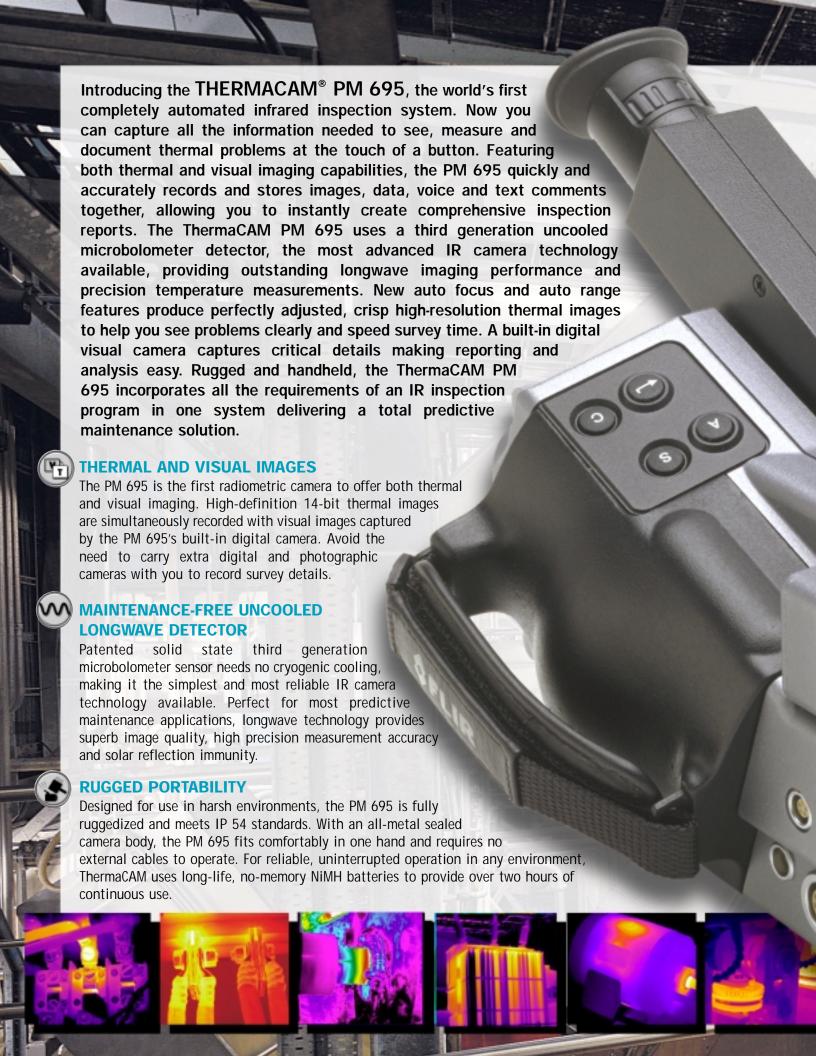
THERMACAM® PM 695









THERMACAM PM 695 TECHNICAL SPECIFICATIONS

IMAGING PERFORMANCE

THERMAL

24°x18° /0.5m Field of view/min focus distance Spatial resolution (IFOV) 1.3 mrad Thermal sensitivity 0.08°C at 30°C 50/60 Hz non-interlaced Image frequency

Electronic zoom function 4X continuous

Detector type Focal Plane Array (FPA), uncooled microbolometer 320 x 240 pixels

Spectral range 7.5 to 13um Digital image enhancement Standard

VISUAL

Built-in digital video 640 x 480 pixels, full color

IMAGE PRESENTATION

Video output RS170 EIA/NTSC or CCIR/PAL composite video

Built-in, high-resolution color LCD (TFT), optional LCD panel Viewfinder

MEASUREMENT

Temperature range -40°C to +120°C (-40°F to +248°F), Range 1

0°C to +500°C (+32°F to +932°C), Range 2 Up to +1500°C (2732°F), optional Up to +2000°C (3632°F), optional

Spot (up to 5), area (up to 5), isotherm, line profile, Delta T Measurement modes

±2°C, ±2% Accuracy

Automatic, based on inputs for distance, atmospheric temperature and relative humidity Atmospheric transmission correction

Optics transmission correction Automatic, based on signals from internal sensors

Automatic emissivity correction

IMAGE STORAGE

High capacity PC-Card, ATA compatible (160MB min)

File formats - THERMAL 14-bit radiometric IR digital image (IMG), includes header file with all radiometric data

8-bit standard bitmap (BMP), image only or image w/screen graphics

Every image stored in both formats

File formats - VISUAL Standard bitmap (BMP); visual images(s) linked with corresponding

thermal images(s)

Voice annotation of images 30 sec. of digital voice "clip" stored together with the image Text annotation of images

Predefined and field-editable text selected and stored with image. Up to 12 text fields/image

> **LENSES (OPTIONAL)** 3x telescope (7°x 5.3°/6m)

2x telescope (12' x 9' / 2m) 0.5x wide angle (45°x 34°/0.3m)

0.3x wide angle (80'x 60'/0.2m) 200 µm resolution close-up lens (64mm x 48mm /150mm)

100 µm resolution close-up lens (32mm x 24mm /80mm)

Lens identification

Field of view/min focus distance

BATTERY SYSTEM

Internal rechargeable nickel metal hydride (NiMH) battery, field replaceable Туре

2 hours continuous operation Operating time

Charging system 4 bay intelligent charger 110/240 VAC, 50/60 Hz, autosensing

Charging time 1 hour AC Adapter Included

ENVIRONMENTAL SPECIFICATION

-15°C to +50°C (5°F to 122°F) -40°C to +70°C (-40°F to 158°F) Operating temperature range Storage temperature range

Operating and storage 10% to 95%, non-condensing IP 54 IEC 359 (metal casing)

Operational: 25G, IEC 68-2-29 Operational: 2G, IEC 68-2-6

PHYSICAL CHARACTERISTICS

Weight

2.0 kg (4.4lbs.), excluding battery, 2.4 kg (5.3 lbs.), including battery 220mm x 133mm x 140mm (8.7"x5.2"x5.5") 1/4" - 20

Size Tripod mounting

INTERFACE

Remote focus (standard), RS-232 (standard) Remote control panel (optional) Remote-control options



The ThermaCAM PM 695 is the first IR predictive maintenance camera to provide both thermal and visual imaging in one system.



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Humidity Encapsulation Shock

Vibration