

**A FEW PRACTICAL BENEFITS:**

- Fully radiometric IR camera manufactured in the EU
- 50-Hz real-time measurement and real-time image display ensure clear thermal images of high quality
- High thermal sensitivity
- High geometric resolution
- Precise temperature measurement in the entire picture
- Dual key touchscreen control
- 5 megapixel digital camera for brilliant real images
- Robust, shock-protected design in two-component construction with IP54 type of protection
- 3.5-inch PanoFold touchscreen
- DuoVision Plus function for combined display of infrared and real image as contour emphasizing detail-enhanced thermogram
- Integrated laser pointer
- Diverse measuring functions
- Optional Bluetooth voice recording
- Data transmission via USB
- High-quality analysis software included in the scope of delivery

**Finally one software for basically all measuring devices:**

**MultiMeasure Studio Professional**

Along with the ever-growing number of fully compatible Trotec measuring devices this software is also suited for use with the partially compatible XC300 – you can even benefit from this software in case of isolated devices, for it enables the analysis and administration of all measuring projects and customer data across multiple devices in a single application!

**Create professional measurement reports in next to no time!**

The unique report generating function of MultiMeasure Studio Professional already comes with completely formulated boilerplate texts for the fields of building diagnostics, moisture measurement, leak detection and thermography.

*More information can be found starting on catalogue page 52 ...*

# Thermal imaging camera XC300

## The innovative combination of comfort an efficiency

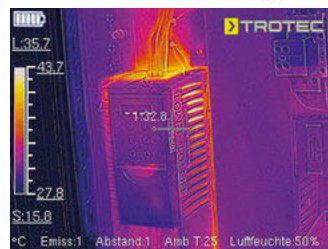
Price-conscious thermographers with professional needs definitely get their money's worth with the high-quality thermal imaging camera XC300 seeing as competition models with comparable equipment features easily cost twice as much.

Featuring precise real-time measurements in high native resolution, a stepless 10x zoom, a quick autofocus with laser precision, an integrated distance measurement function, interval shooting, IR videos and numerous measuring functions, the XC300, further fitted with a high-capacity Li-ion battery for extremely long measuring operations, leaves nothing to be desired and is supplied ready for use in a hard-shell transport case including high-quality analysis software.



A full comparison chart of all the equipment features of our professional thermal imaging cameras can be found starting on page 14 ...

- **Simply pivot the monitor rather than doing the twist yourself:** The unsurpassed PanoFold touchscreen can be tilted by 180° and swivelled by 270°, when closed it serves as monitor and keypad protection
- Advanced real-time thermal imaging camera with a native resolution of 384 x 288 pixels (110,592 measuring spots)
- Quick and precise autofocus
- Integrated laser distance measuring device
- High-capacity Li-ion battery – lasts more than twice as long as a standard Li-ion battery
- Stepless 10x zoom – ideal to look at details even from afar
- Recording of IR videos – fully radiometric as well\*



For a better orientation the on-demand DuoVision Plus display additionally renders important details such as lettering or object contours visible.



The XC300 can be flexibly controlled via buttons or touchscreen and its illuminated keypad facilitates the operation in dark surroundings.



The front of this robust camera comes equipped with real image camera, photo lamp, laser pointer and distance meter. As an alternative to the standard lens you may also use various interchangeable lenses.



Technical data		XC300
Article number		3.110.003.043
Measurement	Temperature range	-20 °C to +600 °C (optionally even up to +1,500 °C)
	Accuracy	± 2 °C, ± 2 % from the measured value
Radiometric image performance	Detector type	Focal Plane Array (FPA), uncooled microbolometer
	Detector resolution	384 x 288 pixels
	Spectral range	8 to 14 µm
	Field of vision (FOV)	24° x 18°
	Geometric resolution	1.1 mrad
	Thermal sensitivity	0.05 °C at 30 °C
	Refresh rate	50/60 Hz
	Focus / min. focus distance	Automatic and manual / 0.15 m
Visual image performance	Digital photo camera	5 megapixels, integrated photo lamp
	Video norm	PAL/NTSC
Image representation	Display	Tiltable, swivel-mounted 3.5-inch LCD touchscreen, capacitive
	Zoom	1x to 10x via infinitely variable electronic regulation
	Image display	Pseudo colours, 6 colour palettes
	Image display options	IR image, real image, DuoVision Plus display (overlay of infrared and real images in random intensities), DuoVision Plus display (fusion of infrared and real image as contour emphasizing detail-enhanced thermogram)
Measurement and analysis	Measuring spots	8 movable temperature measuring spots (can be freely configured)
	Measuring functions	Isotherm, line profile analysis, sector analysis (rectangle), various alarm functions, Min/Max temperature tracking (hot/cold spot), differential measurements at up to 8 dynamic temperature measuring spots
	Area measurement	2 areas
	Emissivity	User-defined variably adjustable from 0.01 to 1.0
	Measurement correction	Correction of the reflected object temperature; automatic correction based on user-defined specifications for ambient temperature, distance and relative humidity
Data storage	Memory	16 GB internal flash memory
	File format	Radiometric image: 16 bit JPEG; visual image: JPEG; non-radiometric thermographic video: MPEG-4; fully radiometric infrared video: 14 bit IR format
	Data storage / transmission	Storage of non-radiometric IR videos (MPEG-4) as well as radiometric and real images on internal memory; periodic image storage (3 / 5 / 10 / 30 / 60 min can be adjusted); storage of fully radiometric IR videos* on PC via USB
	Voice recording	Comments can be stored along with every IR image (optionally available Bluetooth headset required)
	Interfaces	USB type C, analogue video (PAL/NTSC)
Laser	Type	Semiconductor AlGaInP diode laser class 2, 1 mW / 635 nm red
	Distance measurement	0.05 to 30 m
Power supply	Battery type	High-capacity Li-ion battery (9,210 mAh); rechargeable, exchangeable
	Operating time	≈ 8 h
	Mains power	5 V, 2 A
	Energy saving mode	User-defined
Surrounding conditions	Temperature	-20 °C to +50 °C (operation), -40 °C to +70 °C (storage)
	Humidity	10 % to 95 % RH (non-condensing)
	Type of protection / shock / vibration	IP54 / 25G / 2G
	Impact resistance (falling from)	2 m
Physical characteristics	Dimensions / weight	130 x 125 x 250 mm / 850 g
	Tripod connection	¼"

\* Saving fully radiometric IR videos requires the optionally available professional upgrade (software dongle)



The PanoFold touchscreen is a top-shelf monitor unit. When closed it serves as reliable protection for monitor and operator keypad. Opened the highly luminous 3.5-inch display can both be inclined by 180° and pivoted by 270°.

Consequently, with the XC300 no user has to bend over or twist in any fashion just to inspect poorly accessible objects. This is the function of the PanoFold touchscreen which ensures that optimum thermal images are taken even of measuring objects that are not within easy reach. The device can be controlled directly via the touchscreen.



### XC300 scope of delivery

#### Standard equipment

- Camera with standard lens 24° x 18°, touch LCD and laser
- Battery charger
- High-capacity Li-ion battery
- Video cable
- USB cable of type C
- Operating manual
- Transport case
- Software package
- Temperature test certificate

#### Optional interchangeable lenses

- 7° / 12° / 48° lens

#### Optional accessories

- Bluetooth interface
- Bluetooth headset
- Professional software upgrade (dongle) for thermographic video recordings and evaluations in real time, 3D heat distribution, export of measurement data, panoramic image creation from several individual thermal images and much more
- Universal tripod (Article number 6.300.000.200)