

The Argus® F-Type Specialist Search camera is the latest generation of the highly successful Argus® thermal Imaging cameras from e2v technologies. It has been specifically designed to help police and security personnel to detect heat signatures required in specialist search operations.

The Argus® F-Type can be used in conditions of zero visibility including complete darkness, and smoke. Because the energy being sensed is heat rather than light, the camera can be used in both day and night operations. The Argus® F-Type is very sensitive, detecting temperature variations lower than 50mK is ideal for a series of applications.

The Argus® F-Type is a simple-to-operate, self-contained and robust camera which can be used in a fully automatic mode of operation. A semi-automatic mode is also available for the more specialist applications. The camera is also lightweight and ergonomic and capable of withstanding harsh environments.

The Argus® F-Type uses a 320×240 pixel Amorphous Silicon (ASi) Microbolometer Detector. It has been designed using advanced digital imaging technology for a sharper picture and provides superior performance.

TO BOOK A DEMONSTRATION OR FIND OUT MORE GO TO:

argusdirect.com

CAMERA STANDARD FEATURES

The Argus® F Type comes with the most advanced features available in any Thermal Imaging Camera. **These include:**

 Void Finder Technology™
 Direct Temperature Measurement

 Image Compare Technology™
 Choice of colour palettes and scene presentation

 Capture of 100 images with ability to post process from a raw data file
 Customisable Start-up Screen

 Dimmable LCD display
 Time and Date

 On screen set-up menu

 X2 and X4 Zoom

CAMERA STANDARD ACCESSORIES

The Argus® F Type comes with the following accessories as standard:

Handle	Neck Strap	
Soft carry case (Hard case optional)	USB Connection Lead for PC/ Laptop	
Side Straps	User manual	
Two rechargeable battery packs	End-user software	
Battery charger with mains plug (US, UK, and Europe)	Please refer to the Arruis website for details	

CAMERA ORDER CODES

Code	Description
P7250	Wide FOV in soft carry case
P7259	9Hz variant of the above (P7250)
P7250/N	Wide FOV in hard carry case
P7259/N	9Hz variant of the above (P7250/N)
P7225	Narrow FOV in soft carry case
P7229	9Hz variant of the above (P7225)
P7225/N	Narrow FOV in hard carry case
P7229/N	9Hz variant of the above (P7225/N)

Customer configurable variants are available on request NSN: 5855-99-917-5465 (P7250): 5855-99-474-6897 (P7225)

WARRANTY

24-month warranty as standard.

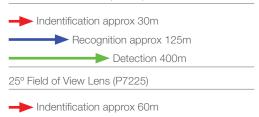
Warranty can be extended for up to an additional three years at the time of purchase (exclusions apply).

DATA SHEETCAMERA SPECIFICATION



PERFORMANCE

50° Field of View lens (P7250)



Recognition approx 250m
Detection 800m

ENVIRONMENTAL DATA

Thermal conditions	The camera has been designed to operate: continuously between -10°C (14°F) and +80°C (176°F)
Sealing	IP67, will withstand short-term immersion in water
Impact	The camera will withstand a drop from a height of 2m (78 inches) onto concrete
Storage	It is recommended that for maximum effective operational life, the storage temperature is kept between -10°C (14°F) and +40°C (104°F)

OPTICAL DATA

Detector

Detector	
Sensor type	Un-cooled Microbolometer
Sensor material	Amorphous Silicon (ASi)
Resolution	320 x 240 array
Pixel size	25μ
Spectral response	8 – 14µm
MDTD	50 mK (Minimum Discernible Temperature Difference)
Dynamic range	-40°C to 200°C (-40°F to 392°F) via 2 ranges with auto-switching
Refresh rate	60 Hz
Spot temperature range	-40°C to 200°C (-40°F to 392°F)
Lens	
Lens material	Germanium
Focal length	8.6mm (P7250 series); 19mm (P7225 series)
Focal distance	1m to infinity, optimised at 4m (3 feet to infinity, optimised at 13 feet)
Aperture	f/1.0 (P7250 series); f/1.3 (P7225 series)
Field of view	50° horizontal (P7250 series) 25° (P7225 series)
Display	
Туре	High grade, Industrial, colour TFT active matrix LCD
Size	90mm (3.5 inches)
Pixel format	QVGA 320 x 240, (each pixel RGB format, total pixels 230,400 pixels)
Video input	Sensor synchronised direct digital drive
Backlight	430cd/m ² at 20mA (High brightness, white LED)

MECHANICAL DATA

Camera dims (H x W x D)	130mm x 185mm x 185mm (5.1 x 7.2 x 7.2 inches)
Camera weight	<1.3kg (2.8 lbs) without battery <1.6kg (3.4 lbs) with battery
Outer camera case and handle	Radel®R-5100 and Santoprene®
Rear and front bumpers	Multiflex® or Santoprene®
Neck and side straps	Nomex®
Lens window	Germanium (2mm thick) with durable coating

ELECTRICAL DATA

Power	<3 W typical
consumption	
Start-up time	5 seconds typical
Battery type	Ni-MH Rechargeable Battery
Battery capacity	2 AH
Battery life	4hrs @ ambient temperature (22°C, 72°F)
Battery charge time	2 hours nominal
Battery recharge cycles	500 to 80% capacity, 1000 recharges in total
Battery sealing	IP67
Charging temp.	0°C to 40°C (32°F to 104°F); 65°C (105°F) can be tolerated
Charger input voltage	100 - 240 VAC 50/60 Hz, 1A max
Charger operating temp.	0°C to 40°C (32°F to 104°F)

VIDEO OUTPUTS

Digital	MPEG4, RTSP video streaming @ (P7250/25 - 10fps, P7259/29 - 9Hz)
Analogue	NTSC 525-line 60 Hz, EIA RS-170 (P7250/25 - 30fps, P7259/29 - 9Hz)

COMPLIANCE DATA

RFI/EMC

Emissions	BS EN 61000-6-3:2007,FCC CFR-47 Subpart B, Class B, AUS/NZ 4251.1
Immunity	BS EN 61000-6-2:2005
Safety	IEC 60950-1 and related national standards
Vibration/Shock	BS EN 60721-3-2 Class 2M3
RoHS	All parts of the system are compliant with EU directive 2011/65/EC

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