

Thermal Camera Comparison Chart - Produced by Instrotech Ltd

Flir updated the features and lowered the list prices on their some if their cameras on 1st March 2010, the additional features on the cameras have been highlighted in red

Standard Thermal Cameras for Electrical & General Purpose Use

	Flir i5	Flir i7	Fluke Ti9	Fluke Ti10	Fluke Ti25	Flir i40	Flir i50	Flir i60
List Price	£1,595.00	£2,485.00	£2,490.00	£3,230.00	£4,846.00	£3,110.00	£4,000.00	£4,890.00
IR Specifications								
Temperature Range	0°C to +250°C	0°C to +250°C	-20°C to +250°C	-20°C to +250°C	-20°C to +350°C	-20°C to +350°C	-20°C to +350°C	-20°C to +350°C
Field Of View	17° x 17°	25° x 25°	23° x 17°	23° x 17°	23° x 17°	25° x 25°	25° x 25°	25° x 25°
Minimum Focus Distance	0.6m	0.5m	0.15m	0.15m	0.15m	0.1m	0.1m	0.1m
Thermal Sensitivity (NETD)	100mK	100mK	200mK	200mK	100mK	100mK	100mK	100mK
Detector Type	80 x 80 pixels	120 x 120 pixels	160 x 120 pixels	160 x 120 pixels	160 x 120 pixels	120 x 120 pixels	140 x 140 pixels	180 x 180 pixels
Focal Plane Array	Uncooled Microbolometer	Uncooled Microbolometer	Uncooled Microbolometer	Uncooled Microbolometer	Uncooled Microbolometer	Uncooled Microbolometer	Uncooled Microbolometer	Uncooled Microbolometer
Spectral Range	7.5 - 13µm	7.5 - 13µm	7.5 - 14µm	7.5 - 14µm	7.5 - 14µm	7.5 - 13µm	7.5 - 13µm	7.5 - 13µm
Measurement Modes	Spot	Spot, Area (min/max), Isotherm	Not Specified	Not Specified	Hot & Cold spot on image	Spot, Area (min/max), Isotherm	Spot, Area (min/max), Isotherm	Spot, Area (min/max), Isotherm, Auto Hold, Cold Spot Marker
IR Window Correction, Allows for viewing through specially made IR windows	-	-	-	-	-	Yes	Yes	Yes
Difference Temperature	-	-	-	-	-	-	-	-
Measurement Function Alarm	-	-	-	-	-	-	-	-
Screening	-	-	-	-	-	-	-	-
Emissivity Adjustment	Emissivity Table; 0.1 to 1.0 adjustable	Emissivity Table; 0.1 to 1.0 adjustable	-	-	Emissivity Selection	Emissivity Table; 0.1 to 1.0 adjustable	Emissivity Table; 0.1 to 1.0 adjustable	Emissivity Table; 0.1 to 1.0 adjustable
Measurement Correction	Reflected Temperature & Emissivity	Reflected Temperature & Emissivity	-	-	Reflected Temperature & Emissivity	Reflected Temperature & Emissivity	Reflected Temperature & Emissivity	Reflected Temperature & Emissivity
Standard Image Information								
Image Modes	Thermal Only	Thermal Only	Thermal Only	Thermal, Digital & Picture-in-Picture	Thermal, Digital & Picture-in-Picture	Thermal, Digital & Picture-in-Picture	Thermal, Digital & Picture-in-Picture	Thermal, Digital & Picture-in-Picture
PIP Scale	-	-	-	PIP - Fixed in centre of screen	PIP - 3 step, from centre of screen	PIP - Fixed in centre of image	PIP - 3 step, from centre of screen	Scalable PIP
Image Palettes	Ironbow, Rainbow, Grayscale	Ironbow, Rainbow, Grayscale	Ironbow, Blue-Red, High Contrast, Grayscale	Ironbow, Blue-Red, High Contrast, Grayscale	Ironbow, Blue-Red, High Contrast, Amber, Hot Metal & Grayscale	Ironbow, Rainbow & Grayscale	Ironbow, Rainbow & Grayscale	Ironbow, Rainbow & Grayscale
Image Review	Sequential	Sequential	Sequential	Sequential	Sequential	Sequential	Sequential	Thumbnail Gallery
Voice Annotation	-	-	-	-	60 seconds per image	-	-	60 Seconds per image, Bluetooth Enabled
Instant Report	-	-	-	-	-	-	-	-
Image Sketch Function	-	-	-	-	-	-	-	-
Image Text Function	-	-	-	-	-	-	-	-
Image Marker	-	-	-	-	-	-	-	-
Periodic Image Storage	-	-	-	-	-	-	-	-
Video	-	-	-	-	-	MPEG-4 via USB Output	MPEG-4 via USB Output	MPEG-4 via USB Output
Image Storage	5000 Jpeg Images	5000 Jpeg Images	1200 Radiometric Jpegs, 3000 Standard Jpegs	1200 Radiometric Jpegs, 3000 Standard Jpegs	1200 Radiometric Jpegs, 3000 Standard Jpegs	1000 Radiometric Jpegs Copy to USB Function	1000 Radiometric Jpegs Copy to USB Function	1000 Radiometric Jpegs Copy to USB Function
General Camera Specifications								
Display	2.8" Colour LCD	2.8" Colour LCD	3.6" Colour LCD	3.6" Colour LCD	3.6" Colour LCD	3.5" Colour LCD	3.5" Colour LCD	3.5" Colour LCD
Meterlink	-	-	-	-	-	-	-	Yes
Digital Camera	-	-	-	1.3 Megapixels	1.3 Megapixels	0.6 Megapixels	2.3 Megapixels	2.3 Megapixels
LED Lights or Flash	-	-	-	-	-	LED Lights	LED Lights	LED Lights
Focus	Automatic	Automatic	Manual	Manual	Manual	Manual	Manual	Manual
Laser Pointer	-	-	-	-	-	Class 2	Class 2	Class 2 with IR Laser Locator
Set-Up Controls	Date, Time, °C, °F, 21 Languages	Date, Time, °C, °F, 21 Languages	Date, Time, °C, °F, 16 Languages	Date, Time, °C, °F, 16 Languages	Date, Time, °C, °F, 16 Languages	Date, Time, °C, °F, 21 Languages	Date, Time, °C, °F, 21 Languages	Date, Time, °C, °F, 21 Languages
Battery Type / Operating Time	Li-Ion / 5 Hours. Battery status on display	Li-Ion / 5 Hours. Battery status on display	NIMH / 3 - 4 Hours. Battery status on display	NIMH / 3 - 4 Hours. Battery status on display	NIMH / 3 - 4 Hours. Battery status on display	Li-Ion / 5 Hours. Battery status on display	Li-Ion / 5 Hours. Battery status on display	Li-Ion / 5 Hours. Battery status on display
Software	Flir Quick Report	Flir Quick Report	Fluke SmartView	Fluke SmartView	Fluke SmartView	Flir Quick Report	Flir Quick Report	Flir Quick Report
Charging System	In Camera, AC Adaptor	In Camera, AC Adaptor	In Camera, AC Adaptor & Car Charger	In Camera, AC Adaptor & Car Charger	In Camera, AC Adaptor & Car Charger	In Camera, AC Adaptor	In Camera, AC Adaptor	In Camera, AC Adaptor
Weight / Dimensions	340g / 223 x 79 x 83mm	340g / 223 x 79 x 83mm	1.2kg / 267 x 127 x 152mm	1.2kg / 267 x 127 x 152mm	1.2kg / 267 x 127 x 152mm	600g / 235 x 81 x 175mm	600g / 235 x 81 x 175mm	600g / 235 x 81 x 175mm
Carry Case	Hard Carry Case	Hard Carry Case	Soft Carry Case	Soft Carry Case	Soft Carry Case	Hard Carry Case	Hard Carry Case	Hard Carry Case
Calibration Certificate	-	-	-	-	-	Yes	Yes	Yes
Manufacturers Training Course	Online Course Included	Online Course Included	-	-	-	Training Optional Extra	Training Optional Extra	Training Optional Extra
Warranty	1 Year (extended to 2 years when registered)	1 Year (extended to 2 years when registered)	2 Years	2 Years	2 Years	1 Year (extended to 2 years when registered)	1 Year (extended to 2 years when registered)	1 Year (extended to 2 years when registered)



THERMAL CAMERA COMPARISON CHART

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If you would like more information regarding our range of thermal cameras, or if you would like a quotation or demonstration, please contact our sales department on 01923 442244.

Advanced Thermal Cameras for Diagnostic & Consultancy Works

	Flir T200	Flir T250	Flir T360	Flir T335 New 2010 Model	Flir T365 New 2010 Model	Flir T425 New 2010 Model
List Price	Now Use T250	£7,075.00	Now Use T365	£7,965.00	£10,635.00	£13,305.00
IR Specifications						
Temperature Range	-20°C to +120°C 0°C to +350°C	-20°C to +120°C 0°C to +350°C	-20°C to +120°C 0°C to +350°C	-20°C to +650°C	-20°C to +650°C	-20°C to +650°C
Field Of View	25° x 19°	25° x 19°	23° x 19°	23° x 19°	23° x 19°	23° x 19°
Minimum Focus Distance	0.4m	0.4m	0.4m	0.4m	0.4m	0.4m
Thermal Sensitivity (NETD)	100mK	80mK	70mK	50mK	50mK	50mK
Detector Type	200 x 150 pixels	240 x 180 pixels	320 x 240 pixels	320 x 240 pixels	320 x 240 pixels	320 x 240 pixels
Focal Plane Array	Uncooled Microbolometer	Uncooled Microbolometer	Uncooled Microbolometer	Uncooled Microbolometer	Uncooled Microbolometer	Uncooled Microbolometer
Spectral Range	7.5 - 13µm	7.5 - 13µm	7.5 - 13µm	7.5 - 13µm	7.5 - 13µm	7.5 - 13µm
Measurement Modes	5 Spotmeters, 5 Box Areas (min/max), Isotherm, Auto Hot / Cold Spot Marker	5 Spotmeters, 5 Box Areas (min/max), Isotherm, Auto Hot / Cold Spot Marker	5 Spotmeters, 5 Box Areas (min/max), Isotherm, Auto Hot / Cold Spot Marker	5 Spotmeters, 5 Box Areas (min/max), Isotherm, Auto Hot / Cold Spot Marker	5 Spotmeters, 5 Box Areas (min/max), Isotherm, Auto Hot / Cold Spot Marker	5 Spotmeters, 5 Box Areas (min/max), Isotherm, Auto Hot / Cold Spot Marker
IR Window Correction, Allows for viewing through specially made IR windows	-	Yes	-	Yes	Yes	Yes
Difference Temperature	-	-	-	-	Delta temperature between measurement functions or reference temperature	Delta temperature between measurement functions or reference temperature
Measurement Function Alarm	-	-	-	-	Audible / Visual Alarm (above or below) on spotmeter, box or difference temperature	Audible / Visual Alarm (above or below) on spotmeter, box or difference temperature
Screening	-	-	-	-	Audible difference temperature alarm	Audible difference temperature alarm
Emissivity Adjustment	Emissivity Table; 0.1 to 1.0 adjustable	Emissivity Table; 0.1 to 1.0 adjustable	Emissivity Table; 0.1 to 1.0 adjustable	Emissivity Table; 0.1 to 1.0 adjustable	Emissivity Table; 0.1 to 1.0 adjustable	Emissivity Table; 0.1 to 1.0 adjustable
Measurement Correction	Reflected Temperature & Emissivity	Reflected Temperature & Emissivity	Reflected Temperature & Emissivity	Reflected Temperature & Emissivity	Reflected Temperature & Emissivity	Reflected Temperature & Emissivity
Standard Image Information						
Image Modes	Thermal, Visual, Picture-in-Picture	Thermal, Visual, Picture-in-Picture	Thermal, Visual, Picture-in-Picture	Thermal, Visual, Picture-in-Picture	Thermal, Digital & Picture-in-Picture	Thermal, Digital, Picture-in-Picture, MPEG4 Video
PIP Scale & IR Fusion	Scalable PIP	Scalable PIP	Scalable PIP	Scalable PIP	Scalable PIP, IR Fusion over digital image	Scalable PIP, IR Fusion over or under digital image
Image Palettes	Ironbow, Rainbow, Grayscale, Grayscale Inverted	Ironbow, Rainbow, Grayscale, Grayscale Inverted	Ironbow, Rainbow, Grayscale, Grayscale Inverted	Ironbow, Rainbow, Grayscale, Grayscale Inverted	Ironbow, Rainbow, High Contrast Rainbow, Grayscale, Grayscale Inverted	Ironbow, Rainbow, High Contrast Rainbow, Blue Red, Grayscale, Grayscale Inverted
Image Review	Thumbnail Gallery	Thumbnail Gallery	Thumbnail Gallery	Thumbnail Gallery	Thumbnail Gallery	Thumbnail Gallery
Voice Annotation	-	60 Seconds per Image	-	60 Seconds per Image	60 Seconds per image, Bluetooth Enabled	60 Seconds per image, Bluetooth Enabled
Instant Report	-	-	-	-	Yes	Yes
Image Sketch Function	-	Yes	-	Yes	Yes	Yes
Image Text Function	-	Soft Keypad on Touch Screen	-	-	From pre-defined list, or soft keyboard on Touchscreen	From pre-defined list, or soft keyboard on Touchscreen
Image Marker	-	IR & Visual	-	-	4 on IR or Visual Image	4 on IR or Visual Image
Periodic Image Storage	-	-	-	-	-	Every 10 seconds for 24 hours
Video	PAL / NTSC Video Output	PAL / NTSC Video Output	PAL / NTSC Video Output	PAL / NTSC Video Output	PAL / NTSC Video Output	MPEG4 Video, PAL / NTSC Video Output
Image Storage	1000 Radiometric Jpegs	1000 Radiometric Jpegs Copy To USB	1000 Radiometric Jpegs	1000 Radiometric Jpegs Copy To USB	1000 Radiometric Jpegs Copy To USB	1000 Radiometric Jpegs Copy To USB
General Camera Specifications						
Display	3.5" Colour LCD Touchscreen	3.5" Colour LCD Touchscreen	3.5" Colour LCD Touchscreen	3.5" Colour LCD Touchscreen	3.5" Colour LCD Touchscreen	3.5" Colour LCD Touchscreen
Meterlink	-	Yes	-	Yes	Yes	Yes
Digital Camera	1.3 Megapixels	3.1 Megapixels	1.3 Megapixels	3.1 Megapixels	3.1 Megapixels	3.1 Megapixels
LED Lights or Flash	LED Lights	LED Lights	LED Lights	LED Lights	LED Lights	LED Lights
Focus	Manual or Automatic 1x & 2x Digital Zoom	Manual or Automatic 1x & 2x Digital Zoom	Manual or Automatic 1x - 4x Digital Zoom	Manual or Automatic 1 - 2x Digital Zoom	Manual or Automatic 1 - 4x Digital Zoom Including Panning	Manual or Automatic 1 - 8x Digital Zoom Including Panning
Laser Pointer	Class 2 with IR Laser Locator	Class 2 with IR Laser Locator	Class 2 with IR Laser Locator	Class 2 with IR Laser Locator	Class 2 with IR Laser Locator	Class 2 with IR Laser Locator
Set-Up Controls	Date, Time, °C, °F, 21 Languages	Date, Time, °C, °F, 21 Languages	Date, Time, °C, °F, 21 Languages	Date, Time, °C, °F, 21 Languages	Date, Time, °C, °F, 21 Languages	Date, Time, °C, °F, 21 Languages
Battery Type / Operating Time	Li-Ion / 4 - 5 Hours. Battery status on display	Li-Ion / 4 - 5 Hours. Battery status on display	Li-Ion / 4 - 5 Hours. Battery status on display	Li-Ion / 4 - 5 Hours. Battery status on display	Li-Ion / 4 - 5 Hours. Battery status on display	Li-Ion / 5 Hours. Battery status on display
Software	Flir Quick Report	Flir Quick Report	Flir Quick Report	Flir Quick Report	Flir Quick Report	Flir Quick Report
Charging System	In Camera, AC Adaptor. Twin Bay Desktop Charger	In Camera, AC Adaptor. Twin Bay Desktop Charger	In Camera, AC Adaptor. Twin Bay Desktop Charger	In Camera, AC Adaptor. Twin Bay Desktop Charger	In Camera, AC Adaptor. Twin Bay Desktop Charger	In Camera, AC Adaptor. Twin Bay Desktop Charger
Weight / Dimensions	880g / 106 x 201 x 125mm	880g / 106 x 201 x 125mm	880g / 106 x 201 x 125mm	880g / 106 x 201 x 125mm	880g / 106 x 201 x 125mm	880g / 106 x 201 x 125mm
Carry Case	Hard Carry Case	Hard Carry Case	Hard Carry Case	Hard Carry Case	Hard Carry Case	Hard Carry Case
Calibration Certificate	Yes	Yes	Yes	Yes	Yes	Yes
Manufacturers Training Course	Training Optional Extra	Training Optional Extra	Training Optional Extra	Training Optional Extra	Training Optional Extra	Training Optional Extra
Warranty	1 Year	1 Year	1 Year	1 Year	1 Year	1 Year



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If you would like more information regarding our range of thermal cameras, or if you would like a quotation or demonstration, please contact our sales department on 01923 442244.

High End cameras for all applications, ideal for utilities companies, R & D, equine & much more.

	Flir B620	Flir B660	Flir P620	Flir P640	Flir P660
					
List Price	£23,095.00	From £31,995.00	£23,095.00	From £27,545.00	From £31,995
IR Specifications					
Temperature Range	-20°C to +120°C upgradeable to +1500°C or 2000°C	-20°C to +120°C upgradeable to +1500°C or 2000°C	-40°C to +500°C upgradeable to +2000°C	-40°C to +500°C upgradeable to +2000°C	-40°C to +500°C upgradeable to +2000°C
Field Of View	24° x 18°	24° x 18°	24° x 18°	24° x 18°	24° x 18°
Minimum Focus Distance	0.1m	0.1m	0.1m	0.1m	0.1m
Thermal Sensitivity (NETD)	40mK	30mK	40mK	30mK	30mK
Detector Type	640 x 480 pixels	640 x 480 pixels	640 x 480 pixels	640 x 480 pixels	640 x 480 pixels
Focal Plane Array	Uncooled Microbolometer	Uncooled Microbolometer	Uncooled Microbolometer	Uncooled Microbolometer	Uncooled Microbolometer
Spectral Range	7.5 - 13µm	7.5 - 13µm	7.5 - 13µm	7.5 - 14µm	7.5 - 14µm
Measurement Modes	3 Spotmeters, 3 min/max & average within box or circle, auto hot / cold spot, 2 intervals (above or below) & reference temperature	10 Spotmeters, 5 min/max & average within box or circle, auto hot / cold spot, 2 intervals (above or below) & reference temperature	3 Spotmeters, 3 min/max & average within box or circle, auto hot / cold spot, 2 intervals (above or below) & reference temperature	10 Spotmeters, 5 min/max & average within box or circle, auto hot / cold spot, 2 intervals (above or below) & reference temperature	10 Spotmeters, 5 min/max & average within box or circle, auto hot / cold spot, 2 intervals (above or below) & reference temperature
IR Window Correction, Allows for viewing through specially made IR windows.	Yes	Yes	Yes	Yes	Yes
Difference Temperature	Yes	Yes	Yes	Yes	Yes
Measurement Function Alarm	Yes	Yes	Yes	Yes	Yes
Insulation / Dew Point Alarm	Yes	Yes	-	-	-
DDE Thermal Image Correction	Yes	Yes	Yes	Yes	Yes
Emissivity Adjustment	Emissivity Table; 0.1 to 1.0 adjustable	Emissivity Table; 0.1 to 1.0 adjustable	Emissivity Table; 0.1 to 1.0 adjustable	Emissivity Table; 0.1 to 1.0 adjustable	Emissivity Table; 0.1 to 1.0 adjustable
Measurement Correction	Emissivity, reflected temperature, optics & atmospheric transmission, external window	Emissivity, reflected temperature, optics & atmospheric transmission, external window	Emissivity, reflected temperature, optics & atmospheric transmission, external window	Emissivity, reflected temperature, optics & atmospheric transmission, external window	Emissivity, reflected temperature, optics & atmospheric transmission, external window
Standard Image Information					
Image Modes	Thermal, Digital, Picture-in-Picture	Thermal, Digital, Picture-in-Picture	Thermal, Digital, Picture-in-Picture	Thermal, Digital, Picture-in-Picture	Thermal, Digital, Picture-in-Picture
PIP Scale & IR Fusion	Fully scalable PIP, thermal fusion above, below and interval	Fully scalable PIP, thermal fusion above, below and interval	Fully scalable PIP, thermal fusion above, below and interval	Fully scalable PIP, thermal fusion above, below and interval	Fully scalable PIP, thermal fusion above, below and interval
Image Palettes	Ironbow, Rainbow, High Contrast Rainbow, Grayscale, Grayscale Inverted	Ironbow, Rainbow, High Contrast Rainbow, Grayscale, Grayscale Inverted	Ironbow, Rainbow, High Contrast Rainbow, Grayscale, Grayscale Inverted	Ironbow, Rainbow, High Contrast Rainbow, Grayscale, Grayscale Inverted	Ironbow, Rainbow, High Contrast Rainbow, Grayscale, Grayscale Inverted
Image Review	Sequential & Thumbnail Gallery	Sequential & Thumbnail Gallery	Sequential & Thumbnail Gallery	Sequential & Thumbnail Gallery	Sequential & Thumbnail Gallery
Voice Annotation	60 seconds per image	60 seconds per image	60 seconds per image	60 seconds per image	60 seconds per image
Instant Report	-	-	-	-	-
Image Sketch Function	Yes	Yes	Yes	Yes	Yes
Image Text Function	Yes	Yes	Yes	Yes	Yes
Image Marker	Yes	Yes	Yes	Yes	Yes
Periodic Image Storage	-	-	-	-	-
Video	MPEG-4 via PAL / NTSC Output	MPEG-4 to SD Card or via PAL / NTSC Output	MPEG-4 via PAL / NTSC Output	MPEG-4 to SD Card or via PAL / NTSC Output	MPEG-4 to SD Card or via PAL / NTSC Output
Image Storage	1000 Radiometric Jpegs	1000 Radiometric Jpegs	1000 Radiometric Jpegs	1000 Radiometric Jpegs	1000 Radiometric Jpegs
General Camera Specifications					
Display	5.6" Colour LCD	5.6" Colour LCD	5.6" Colour LCD	5.6" Colour LCD	5.6" Colour LCD
Meterlink	-	-	-	-	-
Digital Camera	3.2 Megapixels	3.2 Megapixels	3.2 Megapixels	3.2 Megapixels	3.2 Megapixels
LED Lights or Flash	LED Light	LED Light	LED Light	LED Light	LED Light
Focus	Manual / Automatic with 1x - 2x Digital Zoom	Manual / Automatic with 1x - 8x Digital Zoom	Manual / Automatic with 1x - 2x Digital Zoom	Manual / Automatic with 1x - 2x Digital Zoom	Manual / Automatic with 1x - 8x Digital Zoom
Laser Pointer	Class 2 with IR Laser Locator	Class 2 with IR Laser Locator	Class 2 with IR Laser Locator	Class 2 with IR Laser Locator	Class 2 with IR Laser Locator
Set-Up Controls	Date, Time, °C, °F, 21 Languages	Date, Time, °C, °F, 21 Languages	Date, Time, °C, °F, 21 Languages	Date, Time, °C, °F, 16 Languages	Date, Time, °C, °F, 16 Languages
Battery Type / Operating Time	Li-Ion / 5 Hours. Battery status on display	Li-Ion / 5 Hours. Battery status on display	Li-Ion / 5 Hours. Battery status on display	NiMH Battery / 3 - 4 hours continuous use	NiMH Battery / 3 - 4 hours continuous use
Software	Flir Quick Report	Flir Quick Report	Flir Quick Report	Fluke SmartView	Fluke SmartView
Charging System	In Camera, AC Adaptor	In Camera, AC Adaptor	In Camera, AC Adaptor	In Camera, AC Adaptor	In Camera, AC Adaptor
Weight / Dimensions	1.7kg / 120 x 140 x 220mm	1.7kg / 120 x 140 x 220mm	1.7kg / 120 x 140 x 220mm	1.7kg / 120 x 140 x 220mm	1.7kg / 120 x 140 x 220mm
Carry Case	Hard Carry Case	Hard Carry Case	Hard Carry Case	Hard Carry Case	Hard Carry Case
Calibration Certificate	Yes	Yes	Yes	Yes	Yes
Manufacturers Training Course	Training Optional Extra	Training Optional Extra	Training Optional Extra	Training Optional Extra	Training Optional Extra
Warranty	1 Year	1 Year	1 Year	1 Year	1 Year