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THERMAL IMAGING DEVICES

QUANTUM XD50A

- 384x288 resolution with 50hz refresh rate
- Up to 1200 yd detection range
- "White hot" or "Black hot" modes
- LCD Display
- Video out
- Quick start-up
- Lightweight and compact dimensions

1

## **TECHNICAL SPECIFICATIONS**

## Quantum XD50A -PL77329

Microbolometer resolution, pixels384x288Sensor responseLWIRSpectral sensitivity, µm7.713.2Pixel pitch, µm25Display typeLCD DisplayDisplay resolution, pix640x480Video outputPAL/NTSCPin type of video input/outputJack 3.5 mmOperation modescity,forest,identificationDefective pixel repair optionyesMagnification, x2.5 - 5Digital zoom, x2Lens diameter, mm42Lens diameter, mm50Relative aperture, D/f'1:1.2Field of view, %, horizontal * vertical19.2 x 14.4Minimum focusing distance, m5Eye relief, mm20Exit pupil, mm5Diopter adjustment, dptr.± 5Focusing type of distanceinternalRange of detection, m / yd1100/1200Power suply, V4 + 6Battery type4xAABattery tife, hour5.5External power supplyDC 8.4 + 15Lens materialgermaniumBody materialglass-nylon compositeTripod mount, inch2x1/4Type of mount for additional accessoriesweaverOperating temperature, °C/°F-25 to 50 / -13 to 122Degree of protectionIPX4Calibrationmanual, automatic, semi-autoDimensions, mm207x86x59	Frame rate, Hz	50
pixelsSensor responseLWIRSpectral sensitivity, µm7.713.2Pixel pitch, µm25Display typeLCD DisplayDisplay resolution, pix640x480Video outputPAL/NTSCPin type of video input/outputJack 3.5 mmOperation modescity,forest,identificationDefective pixel repair optionyesMagnification, x2.5 - 5Digital zoom, x2Lens diameter, mm42Lens focus, mm50Relative aperture, D/f'1:1.2Field of view, of, horizontal * vertical11 x 8.3Field of view, m@100m, horizon- tal * vertical9.2 x 14.4Minimum focusing distance, m5Diopter adjustment, dptr.± 5Focusing type of distanceinternalRange of detection, m / yd1010/1200Power supply, V4 ± 6Battery type4xAABattery tife, hour5.5External power supplyDC 8.4 ± 15Lens materialgermaniumBody materialglass-nylon compositeTripod mount, inch2x1/4Type of mount for additional accessoriesweaverQerating temperature, °C/°F-25 to 50 / -13 to 122Degree of protectionIPX4Calibrationmanual, automatic, semi-autoDimensions, mm207x86x59		
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Pixet pitch, µm25Display typeLCD DisplayDisplay resolution, pix640x480Video outputPAL/NTSCPin type of video input/outputJack 3.5 mmOperation modescity,forest,identificationDefective pixel repair optionyesMagnification, x2.5 - 5Digital zoom, x2Lens diameter, mm42Lens focus, mm50Relative aperture, D/f'1:1.2Field of view, %, horizontal *11 x 8.3vertical11.2 x 14.4Field of view, mfa100m, horizon- tal * vertical5Diopter adjustment, dptr.± 5Focusing type of distanceinternalRange of detection, m / yd1100/1200Power supply, V4 ÷ 6Battery type4xAABattery type4xAABattery life, hour5.5External power supplyDC 8.4 ÷ 15Lens materialgermaniumBody materialglass-nylon compositeTripod mount, inch2x1/4Type of mount for additional accessoriesweaverQperating temperature, %C/%F-25 to 50 / -13 to 122Degree of protectionIPX4Calibrationmanual, automatic, semi-autoDimensions, mm207x86x59	Spectral sensitivity, µm	7.713.2
Display resolution, pix640x480Video outputPAL/NTSCPin type of video input/outputJack 3.5 mmOperation modescity,forest,identificationDefective pixel repair optionyesMagnification, x2.5 - 5Digital zoom, x2Lens diameter, mm42Lens focus, mm50Relative aperture, D/f'1:1.2Field of view, of, horizontal *11 x 8.3vertical19.2 x 14.4Minimum focusing distance, m5Diopter adjustment, dptr.± 5Focusing type of distanceinternalRange of detection, m / yd1100/1200Power supply, V4 ÷ 6Battery type4xAABattery type4xAABattery life, hour5.5External power supplyDC 8.4 ÷ 15Lens materialgermaniumBody materialglass-nylon compositeTripod mount, inch2x1/4Type of mount for additional accessoriesweaverOperating temperature, °C/°F-25 to 50 / -13 to 122Degree of protectionIPX4Calibrationmanual, automatic, semi-autoDimensions, mm207x86x59	Pixel pitch, µm	25
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Operation modescity,forest,identificationDefective pixel repair optionyesMagnification, x2.5 - 5Digital zoom, x2Lens diameter, mm42Lens focus, mm50Relative aperture, D/f'1:1.2Field of view, o, horizontal * vertical11 x 8.3Vertical19.2 x 14.4Hinimum focusing distance, m5Eye relief, mm20Exit pupil, mm5Diopter adjustment, dptr.± 5Focusing type of distanceinternalRange of detection, m / yd1100/1200Power supply, V4 ÷ 6Battery type4xAABattery tife, hour5.5External power supplyDC 8.4 ÷ 15Lens materialgermaniumBody materialglass-nylon compositeTripod mount, inch2x1/4Type of mount for additional accessoriesweaver accessoriesOperating temperature, °C/°F-25 to 50 / -13 to 122Degree of protectionIPX4Calibrationmanual, automatic, semi-autoDimensions, mm207x86x59	Video output	PAL/NTSC
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Lens focus, mm50Relative aperture, D/f'1:1.2Field of view, °, horizontal *11 x 8.3vertical11 x 8.3Field of view, m@100m, horizon- tal * vertical19.2 x 14.4Minimum focusing distance, m5Eye relief, mm20Exit pupil, mm5Diopter adjustment, dptr.± 5Focusing type of distanceinternalRange of detection, m / yd1100/1200Power supply, V4 ÷ 6Battery type4xAABattery tife, hour5.5External power supplyDC 8.4 ÷ 15Lens materialgermaniumBody materialglass-nylon compositeTripod mount, inch2x1/4Type of mount for additional accessoriesweaverOperating temperature, °C/°F-25 to 50 / -13 to 122Degree of protectionIPX4Calibrationmanual, automatic, semi-autoDimensions, mm207x86x59	Digital zoom, x	2
Relative aperture, D/f'1:1.2Field of view, °, horizontal *11 x 8.3vertical11 x 8.3Field of view, m@100m, horizon- tal * vertical19.2 x 14.4Minimum focusing distance, m5Eye relief, mm20Exit pupil, mm5Diopter adjustment, dptr.± 5Focusing type of distanceinternalRange of detection, m / yd1100/1200Power supply, V4 ÷ 6Battery type4xAABattery life, hour5.5External power supplyDC 8.4 ÷ 15Lens materialgermaniumBody materialglass-nylon compositeTripod mount, inch2x1/4Type of mount for additional accessoriesweaverOperating temperature, °C/°F-25 to 50 / -13 to 122Degree of protectionIPX4Calibrationmanual, automatic, semi-autoDimensions, mm207x86x59	Lens diameter, mm	42
Field of view, °, horizontal * vertical11 x 8.3Field of view, m@100m, horizon- tal * vertical19.2 x 14.4Minimum focusing distance, m5Eye relief, mm20Exit pupil, mm5Diopter adjustment, dptr.± 5Focusing type of distanceinternalRange of detection, m / yd1100/1200Power supply, V4 ÷ 6Battery type4xAABattery life, hour5.5External power supplyDC 8.4 ÷ 15Lens materialgermaniumBody materialglass-nylon compositeTripod mount, inch2x1/4Type of mount for additional accessoriesweaverOperating temperature, °C/°F-25 to 50 / -13 to 122Degree of protectionIPX4Calibrationmanual, automatic, semi-autoDimensions, mm207x86x59	Lens focus, mm	50
verticalField of view, m@100m, horizon- tal * vertical19.2 x 14.4Minimum focusing distance, m5Eye relief, mm20Exit pupil, mm5Diopter adjustment, dptr.± 5Focusing type of distanceinternalRange of detection, m / yd1100/1200Power supply, V4 ÷ 6Battery type4xAABattery tife, hour5.5External power supplyDC 8.4 ÷ 15Lens materialgermaniumBody materialglass-nylon compositeTripod mount, inch2x1/4Type of mount for additional accessoriesweaverOperating temperature, °C/°F-25 to 50 / -13 to 122Degree of protectionIPX4Calibrationmanual, automatic, semi-autoDimensions, mm207x86x59	Relative aperture, D/f'	1:1.2
Field of view, m@100m, horizon- tal * vertical19.2 x 14.4Minimum focusing distance, m5Eye relief, mm20Exit pupil, mm5Diopter adjustment, dptr.± 5Focusing type of distanceinternalRange of detection, m / yd1100/1200Power supply, V4 ÷ 6Battery type4xAABattery tife, hour5.5External power supplyDC 8.4 ÷ 15Lens materialgermaniumBody materialglass-nylon compositeTripod mount, inch2x1/4Type of mount for additional accessoriesweaver accessoriesOperating temperature, °C/°F-25 to 50 / -13 to 122Degree of protectionIPX4Calibrationmanual, automatic, semi-autoDimensions, mm207x86x59	Field of view, °, horizontal *	11 x 8.3
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Focusing type of distanceinternalRange of detection, m / yd1100/1200Power supply, V4 ÷ 6Battery type4xAABattery life, hour5.5External power supplyDC 8.4 ÷ 15Lens materialgermaniumBody materialglass-nylon compositeTripod mount, inch2x1/4Type of mount for additional accessoriesweaverOperating temperature, °C/°F-25 to 50 / -13 to 122Degree of protectionIPX4Calibrationmanual, automatic, semi-autoDimensions, mm207x86x59		
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Battery life, hour5.5External power supplyDC 8.4 ÷ 15Lens materialgermaniumBody materialglass-nylon compositeTripod mount, inch2x1/4Type of mount for additional accessoriesweaverOperating temperature, °C/°F-25 to 50 / -13 to 122Degree of protectionIPX4Calibrationmanual, automatic, semi-autoDimensions, mm207x86x59	Power supply, V	4 ÷ 6
External power supplyDC 8.4 ÷ 15Lens materialgermaniumBody materialglass-nylon compositeTripod mount, inch2x1/4Type of mount for additional accessoriesweaverOperating temperature, °C/°F-25 to 50 / -13 to 122Degree of protectionIPX4Calibrationmanual, automatic, semi-autoDimensions, mm207x86x59	Battery type	
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Body materialglass-nylon compositeTripod mount, inch2x1/4Type of mount for additional accessoriesweaverOperating temperature, °C/°F-25 to 50 / -13 to 122Degree of protectionIPX4Calibrationmanual, automatic, semi-autoDimensions, mm207x86x59	External power supply	DC 8.4 ÷ 15
Tripod mount, inch $2x1/4$ Type of mount for additional accessoriesweaverOperating temperature, °C/°F-25 to 50 / -13 to 122Degree of protectionIPX4Calibrationmanual, automatic, semi-autoDimensions, mm207x86x59	Lens material	germanium
Type of mount for additional accessoriesweaverOperating temperature, °C/°F-25 to 50 / -13 to 122Degree of protectionIPX4Calibrationmanual, automatic, semi-autoDimensions, mm207x86x59	Body material	glass-nylon composite
accessoriesOperating temperature, °C/°F-25 to 50 / -13 to 122Degree of protectionIPX4Calibrationmanual, automatic, semi-autoDimensions, mm207x86x59		2x1/4
Degree of protectionIPX4Calibrationmanual, automatic, semi-autoDimensions, mm207x86x59		weaver
Degree of protectionIPX4Calibrationmanual, automatic, semi-autoDimensions, mm207x86x59	Operating temperature, °C/°F	-25 to 50 / -13 to 122
Dimensions, mm207x86x59		IPX4
	Calibration	manual, automatic, semi-auto
Weight (without batteries), oz 15.2	Dimensions, mm	207x86x59
	Weight (without batteries), oz	15.2



## **INCLUDED ACCESSORIES**

- Carrying Case
- Output video cable
- Hand strap
- Car adapter
- Battery container
- Lens cleaning cloth

