



Qualica-RD 3120

1D and 2D barcode reader + NFC

Qualica-RD 3120 is an integrated dimensional scanning terminal with IP54 protection level, capable of reading one-dimensional/two-dimensional barcodes.

It adopts CMOS imaging technology and intelligent image recognition system with independent intellectual property rights at international leading level. It also provides users with rich secondary development functions, including fully open image acquisition interfaces, device interfaces and I/O operation interfaces.

3-year warranty. Supports operating systems such as Linux, Windows, Android and iOS, allowing users to easily address customized needs through the provided SDK. ideal for self-service and ticketing terminals, logistics, finance, transportation, medical and healthcare, etc.

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Features

- IP54 dust and waterproof protection level.
- Compatible with all major 1D and 2D codes.
- Built-in high performance processing chip, fast decoding speed, high accuracy and recognition capability.
- High identification accuracy, wide depth of field range, high sensitivity and low contrast printing requirements.
- Supports firmware upgrades and customization.
- Supports NFC recognition, including Mifare series compatible cards, ISO/IEC 14443A standard cards, NFC cell phones.
- Supports RS232 (default), and USB, TCP/IP, RS485, Wiegand output (optional).



Technical specifications

Dimensions / Weight65 * 61.5 * 31mm / 100gReading modeCMOSResolution640*480 dpiResolutionRS232 (default) / USB, RS485, TCP/IP, Wiegand (optional)NFCSupport Mifare series compatible card, ISO/IEC 14443A standard, NFC cell phone2D Code: GM, QR Code, Micro QR, Micro PDF417, Data Matrix, Chinese-Sensitive Code, etc.TD Code: Code39, Code93, Code 128, EAN-13, EAN-8, UPC-A, etc.2D Code: GM, QR Code, Micro QR, Micro QR, Micro QR, Micro QRPrint contrat>30%Sensitivity of bar roll titt±60°Sensitivity of bar roll titt±60°Sensitivity of bar roll titt±40°Choucou LUXVisible light emitting diode (white)LED illumination / Light someVisible light emitting diode (white)Maximum consumption / Voltag1.2V / SVMaximum consumption / Voltag1.2W / SVMaximum consumption / Voltag2.0V / SVMaximum consumption / Voltag1.5M optionalWorking humidtit5% - 95% (No freezing)Working humidtit5% - 95% (No freezing)		
NoteResolution640°480 dpiInterfaceR5232 (default) / USB, R5485, TCP/IP, Wiegand (optional)NFCSupport Mifare series compatible card, ISO/IEC 14443A standard, NFC cell phone2D Code: GM, QR Code, Micro QR, Micro PDF417, Data Matrix, Chinese-Sensitive Code, etc.1D Code: Code39, Code93, Code 128, EAN-13, EAN-8, UPC-A, etc.Accuracy>7mil00~100mmBar roll sensitivity360°Sensitivity of bar roll tili±60°5ensitivity of bar roll tili±40°Code: Solution QLUXVisible light emitting diode (white)LED illumination / Light sourceVisible light emitting diode (white)Configured by on-line computer / readout codeConfigured by on-line computer / readout codeMaximum consumption / Voltage1.2W / SVMaximum consumption / Voltage2.00°C to 60°CWorking temperature-20°C to 60°CWorking humidity5% - 95% (No freezing)	Dimensions / Weight	65 * 61.5 * 31mm / 100g
InterfaceRS232 (default) / USB, RS485, TCP/IP, Wiegand (optional)RS232 (default) / USB, RS485, TCP/IP, Wiegand (optional)Support Mifare series compatible card, ISO/IEC 14443A standard, NFC cell phoneSymbologies2D Code: GM, QR Code, Micro QR, Micro PDF417, Data Matrix, Chinese-Sensitive Code, etc.Data1D Code: Code39, Code 93, Code 128, EAN-13, EAN-8, UPC-A, etc.Accuracy>7milOcde: Odo39, Code 93, Code 128, EAN-13, EAN-8, UPC-A, etc.Peth of field0~100mmOnom30%Bar roll sensitivity360°Sensitivity of bar roll titi± 60°Sensitivity of bar roll titi± 40°Ambient light0~100,000 LUXVersible light emitting diode (white)LED illumination / Light soureVisible light emitting diode (white)Maximum consumption / Voltage12W / 5VMaximum consumption / Voltage1.2W / 5VMaximum consumption / Voltage1.5M optionalMorking temperature20° Co to 60°CWorking temperature50° Co to 60°C	Reading mode	CMOS
Intercention, recryotion, recryotion, regimentsIntercention, recryotion, recryotion, regimentsSymbologiesSupport Mifare series compatible card, ISO/IEC 14443A standard, NFC cell phoneSymbologies2D Code: GM, QR Code, Micro QR, Micro PDF417, Data Matrix, Chinese-Sensitive Code, etc.1D Code: Code39, Code93, Code 128, EAN-13, EAN-8, UPC-A, etc.27milCode: On Omm230%Bar roll sensitivity360°Bar roll sensitivity360°Sensitivity of bar roll tilt± 60°Sensitivity of bar roll tilt± 40°Code: On Out DUXVisible light emitting diode (white)LED illumination / Light sourceVisible light emitting diode (white)LED illumination / Light sourceNanual / AutomaticMaximum consumption / Voltage1.2W / 5VAddible warning1.2W / 5VCurrent240mA max current, 200mA working current, 30mA standby currentWorking temperature-20°C to 60°CWorking humiditi5% -95% (No freezing)	Resolution	640*480 dpi
Symbologies2D Code: GM, QR Code, Micro QR, Micro PDF417, Data Matrix, Chinese-Sensitive Code, etc.1D Code: Code39, Code93, Code 128, EAN-13, EAN-8, UPC-A, etc.Accuracy>7milDepth of field0~100mmOr 100mm>30%Bar roll sensitivity360°Sensitivity of bar roll tilt± 60°Sensitivity of bar roll tilt± 40°Marine To 10000 LUX>100000 LUXLED illumination / Light sourceVisible light emitting diode (white)Configured by on-line computer / readout code0Maximum consumption / Voltage1.2W / SVMaximum consumption / Voltage1.2W / SVCable length1.5M optionalWorking temperature20°C to 60°CWorking humidti5% -95% (No freezing)	Interface	RS232 (default) / USB, RS485, TCP/IP, Wiegand (optional)
SymbologiesID Code: Code39, Code93, Code 128, EAN-13, EAN-8, UPC-A, etc.Accuracy>7milDepth of field0~100mmOne30%Bar roll sensitivity360°Sensitivity of bar roll tili± 60°Sensitivity of bar roll tili± 40°Carban0~100,000 LUXLED illumination / Light sourceVisible light emitting diode (white)CarbanConfigured by on-line computer / readout codeMaximum consumption / Voltage1.2W / 5VMaximum consumption / Voltage1.2W / 5VCable length1.5M optionalWorking temperature-20°C to 60°CWorking humiditi5% - 95% (No freezing)	NFC	Support Mifare series compatible card, ISO/IEC 14443A standard, NFC cell phone
ID Code: Code39, Code93, Code128, EAN-13, EAN-8, UPC-A, etc.Accuracy≥7milDepth of field0~100mmPrint contrast≥30%Bar roll sensitivity360°Sensitivity of bar roll tilt± 60°Sensitivity of bar roll tilt± 60°Marbient light0~100,000 LUXLED illumination / Light sourceVisible light emitting diode (white)LED illumination / Light sourceConfigured by on-line computer / readout codeMaring modeAudible warningMaximum consumption / Voltage1.2W / 5VCurrent240mA max current, 200mA working current, 30mA standby currentMorking temperature-20°C to 60°CWorking humidity5% - 95% (No freezing)	Symbologies	2D Code: GM, QR Code, Micro QR, Micro PDF417, Data Matrix, Chinese-Sensitive Code, etc.
Depth of field0~100mmPrint contrast>30%Bar roll sensitivity360°Sensitivity of bar roll tilt± 60°Sensitivity of bar roll tilt± 40°Cable light0~100,000 LUXLED illumination / Light sourceVisible light emitting diode (white)Configured by on-line computer / readout codeManual / AutomaticWarning modeAudible warningMaximum consumption / Voltage1.2W / 5VCurrent240mA max current, 200mA working current, 30mA standby currentCable length1.5M optionalWorking temperature5% - 95% (No freezing)		1D Code: Code39, Code93, Code 128, EAN-13, EAN-8, UPC-A, etc.
Print contrast≥30%Bar roll sensitivity360°Sensitivity of bar roll til±60°Bar tilt sensitivity±40°Cablent light0~100,000 LUXLED illumination / Light sourceVisible light emitting diode (white)Setting modeConfigured by on-line computer / readout codeManual / AutomaticManual / AutomaticWarning modeAudible warningMaximum consumption / Voltage1.2W / SVCurrent240mA max current, 200mA working current, 30mA standby currentMorking temperature-20°C to 60°CWorking humidity5% -95% (No freezing)	Accuracy	≥7mil
Bar roll sensitivity360°Sensitivity of bar roll tilt± 60°Bar tilt sensitivity± 40°Ambient light0~100,000 LUXLED illumination / Light sourceVisible light emitting diode (white)Setting modeConfigured by on-line computer / readout codeManual / AutomaticManual / AutomaticWarning modeAudible warningMaximum consumption / Voltage1.2W / 5VCurrent240mA max current, 200mA working current, 30mA standby currentWorking temperature-20°C to 60 °CWorking humidity5% - 95% (No freezing)	Depth of field	0~100mm
Sensitivity of bar roll tilt± 60°Bar tilt sensitivity± 40°Ambient light0~100,000 LUXLED illumination / Light sourceVisible light emitting diode (white)Setting modeConfigured by on-line computer / readout codeTrigger modeManual / AutomaticWarning modeAudible warningMaximum consumption / Voltage1.2W / 5VCurrent240mA max current, 200mA working current, 30mA standby currentWorking temperature-20°C to 60°CWorking humidity5% - 95% (No freezing)	Print contrast	≥30%
Bar tilt sensitivity± 40°Ambient light0~100,000 LUXLED illumination / Light sourceVisible light emitting diode (white)Setting modeConfigured by on-line computer / readout codeTrigger modeManual / AutomaticWarning modeAudible warningMaximum consumption / Voltage1.2W / 5VCurrent240mA max current, 200mA working current, 30mA standby currentMorking temperature-20°C to 60 °CWorking humidity5% - 95% (No freezing)	Bar roll sensitivity	360°
Ambient light0~100,000 LUXLED illumination / Light sourceVisible light emitting diode (white)Setting modeConfigured by on-line computer / readout codeTrigger modeManual / AutomaticWarning modeAudible warningMaximum consumption / Voltage1.2W / 5V240mA max current, 200mA working current, 30mA standby currentCable length1.5M optionalWorking temperature-20°C to 60 °CWorking humidity5% - 95% (No freezing)	Sensitivity of bar roll tilt	± 60°
LED illumination / Light sourceVisible light emitting diode (white)Setting modeConfigured by on-line computer / readout codeTrigger modeManual / AutomaticWarning modeAudible warningMaximum consumption / Voltage1.2W / 5VCurrent240mA max current, 200mA working current, 30mA standby currentCable length1.5M optionalWorking temperature-20°C to 60 °CWorking humidity5% - 95% (No freezing)	Bar tilt sensitivity	$\pm 40^{\circ}$
Setting modeConfigured by on-line computer / readout codeTrigger modeManual / AutomaticWarning modeAudible warningMaximum consumption / Voltage1.2W / 5VCurrent240mA max current, 200mA working current, 30mA standby currentCable length1.5M optionalWorking temperature-20°C to 60 °CWorking humidity5% - 95% (No freezing)	Ambient light	0~100,000 LUX
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Warning modeAudible warningMaximum consumption / Voltage1.2W / 5VCurrent240mA max current, 200mA working current, 30mA standby currentCable length1.5M optionalWorking temperature-20°C to 60 °CWorking humidity5% - 95% (No freezing)	Setting mode	Configured by on-line computer / readout code
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Current 240mA max current, 200mA working current, 30mA standby current Cable length 1.5M optional Working temperature -20°C to 60 °C Working humidity 5% - 95% (No freezing)	Warning mode	Audible warning
Cable length 1.5M optional Working temperature -20°C to 60 °C Working humidity 5% - 95% (No freezing)	Maximum consumption / Voltage	1.2W / 5V
Working temperature-20°C to 60 °CWorking humidity5% - 95% (No freezing)	Current	240mA max current, 200mA working current, 30mA standby current
Working humidity 5% - 95% (No freezing)	Cable length	1.5M optional
	Working temperature	-20°C to 60 °C
Degree of protection IP54	Working humidity	5% - 95% (No freezing)
	Degree of protection	IP54

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Dimensions















