

Allen-Bradley 48CR Code Reader



Small, high performance, easy-to-use
EtherNet/IP™ solution

Features and Benefits

- Smallest industrial code reader on the market today: 44.5 mm (1.75 in.) x 25.4 mm (1.00 in.) x 44.45 mm (1.75 in.)
- Decoding algorithms technology provides clear, high-speed scanning on 1D/2D and Direct Part Marked (DPM) codes on any surface
- Supports EtherNet/IP™ through Studio 5000 Logix Designer® Add-on Profile (AOP) or the embedded web-based visual browser WebConnect
- Two models available:
 - Standard: (WVGA, 0.3 MP resolution, fixed focus)
 - Advanced: (SXGA, 1.2 MP resolution, autofocus)
- Adjustable read ranges from between 102 mm (4.02 in.) to 400 mm (15.75 in.) for liquid lens autofocus models
- Read ranges from between 102 mm (4.02 in.) to 400 mm (15.75 in.) for fixed focus lens catalogs
- Speeds up to 60 frames per second (fps) for fixed focus and 42 fps for autofocus code readers
- 16 LED-integrated illumination (programmable to red or white)
- Status LEDs and molded window
- Industrial IP65/67 enclosure rating
- Connectors:
 - M12, 8-pin power
 - M12, 4-pin Power over Ethernet/IP™
- Molded window can be replaced or interchanged with a polarized or diffuser window



EtherNet/IP™

The new Allen-Bradley® 48CR Code Reader from Rockwell Automation is the smallest industrial code reader on the market. The rugged 48CR decodes 1D/2D and Direct Part Marked (DPM) codes and solves the most challenging readings under any condition. Featuring the latest decoding algorithms technology, the 48CR can successfully read damaged and incomplete symbols despite scenarios with poor prints, scratches or various obstructions. The 48CR supports Ethernet/IP™ and can be configured through either the Studio 5000 Logix Designer® Add-On Profile (AOP) or the embedded WebConnect visual browser.

The 48CR is available in a standard model (WVGA, 0.3 MP resolution, fixed focus) and an advanced model (SXGA, 1.2 MP resolution, autofocus). To read codes at any variable range, the reader has adjustable read ranges from 102 mm (4.02 in.) to 400 mm (15.75 in.). For reliable decoding at the speed you need, the 48CR comes with speeds up to 60 fps for fixed focus and 42 fps for autofocus. Other features include 16 LED-integrated illumination, status LEDs and a molded window that can be replaced or interchanged with a polarized or diffuser window for additional application flexibility.

The 48CR solves numerous difficult barcode reading challenges throughout various applications for automotive, packaging, material handling, assembly, pharmaceutical and food and beverage industries.



Product Selection

Standard Code Reader – Wide Video Graphics Array (WVGA), 752 x 480 resolution, 0.3 MP, 1D/2D + DPM				
Description				Catalog Number
Lens [mm (in.)]	Imager	Focus Type	Focus Distance [mm (in.)]	
5.2 (0.2)	WVGA	Fixed	102 (4.02)	48CR-CB52R102-E8
8 (0.3)			133 (5.24)	48CR-CB80R133-E8
8 (0.3)			190 (7.48)	48CR-CB80R190-E8
16 (0.6)			400 (15.75)	48CR-CB16R400-E8





Advanced Code Reader – Super Extended Graphic Array (SXGA), 1280 x 980 resolution, 1.2 MP, 1D/2D + DPM				
Description				Catalog Number
Lens [mm (in.)]	Imager	Focus Type		
5.0 (0.2)	SXGA	Auto		48CR-CC50RAF-E8
7.7 (0.3)				48CR-CC77RAF-E8
16 (0.6)				48CR-CC16RAF-E8

Specifications

Model	48CR Standard	48CR Advanced
Certifications	FFC, CE, RoHC, UL, KC	
Speed	WVGA (60 FPS)	SXGA (42 FPS)
Connectivity	M12 8-pin power, M12 4-pin Ethernet/IP™	
Operating temperature	0...40 °C (32...104 °F)	
Enclosure	IP65/67, aluminum	

Accessories

Description	Catalog Number
Polarizer – lens cover kit	48CR-POLARIZER
Diffuser – lens cover kit	48CR-DIFFUSER
L-bracket mounting	48CR-LBKT
Adjustable mounting bracket	48CR-ADJBKT
Right-angle mirror	48CR-45MIRROR
T-port	879D-F8D4M

Connect with us.    

rockwellautomation.com — expanding human possibility™

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