

SC1 & MC5

Single & Multi-Channel
Remote Blasting Controllers

Bomb Squad / EOD

WIRELESS



REMOTE BLASTING

UP TO ¾ MILE LOS RANGE

CONTROL UP TO 5 REMOTES

Handheld Controller for the WISe™ Wireless Initiation System. Easy, one-hand operation, and Haptic “armed” indication, make this an excellent tool for tactical breaching too. Controls one (SC1), or up to five (MC5) DCR Remote Blasting Machines (Controllers are identical except for display markings and firmware)



SC1 & MC5 Single & Multi-Channel Remote Blasting Controllers



Operation

FCC ID	MCQ-XB900HP <i>(US 900MHz license)</i>			
Modulation	FHSS 900 MHz <i>(902-928 MHz)</i>		TX Power	250mW
Remote Capacity	SCI Kit	One	MC5 Kit	Up to Five
Transmission Mode	Half-Duplex <i>(Talk-Back)</i> . DCR replies with its status, which is displayed on the Controller.			
Range*	Indoor	Urban	Outdoor/LOS	
	700' <i>(213m)</i>	1600' <i>(488m)</i>	3960' <i>(1207m)</i>	
	<i>*Up to, using 1/2-wave center-fed dipole antenna. Subject to antenna height and gain, surrounding structures, and atmospheric conditions.</i>			
Power Source	Type	1x 9V Energizer Industrial EN-22 <i>(included)</i>		
	Life	Up to 80 shots <i>(2 mins. on-time per shot)</i>		
Temperature Range	0° to 131°F <i>(-18° to 55°C)</i>			

User Interface

TRC (SC1)	7x5 LED Matrix Display • non-dimmable • 7-level RSSI meter • Geometric-scale blasting load meter from 1Ω to 400Ω • Link, Arm, Fire, and Fault conditions
MC5	7x5 LED Matrix Display • 3-level dimmable • Channel Select, Link, Arm, Blasting Load, and Fault conditions. • Firing Modes include Single, Multiple, All, and Sequential. Advanced functions include Network RSSI Status and Channel Masking.
Haptic Indication	For quick and discrete operation, a haptic response indicates when the unit is armed and ready to fire.

Safety

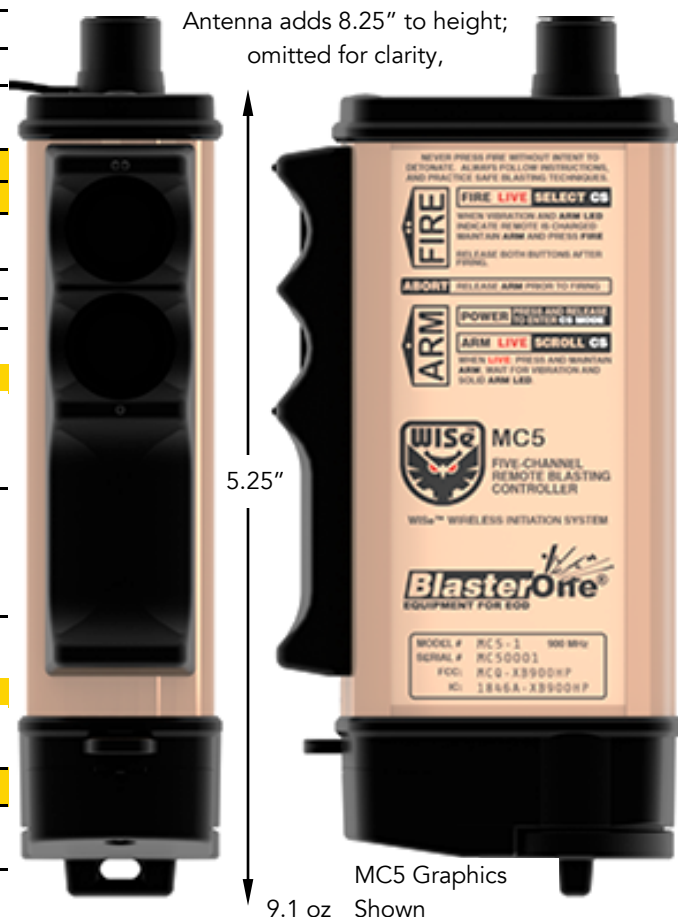
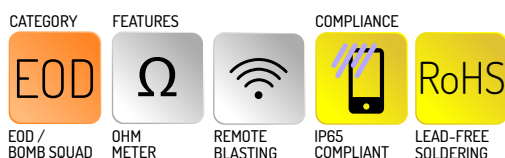
Deliberate Control	Requires two distinct operations to fire, and cannot fire until fully charged		
Security & Error Correct	128 Bit AES	16 Bit CRC	New Rolling Code at each link
	Paired sets can only communicate with each other, and only after linking. Interference may jam comms, but cannot hijack.		
Abortable	If Arm button is released (prior to pressing Fire) the Remote instantly aborts to a safe state		
Failsafe	Power-On and Continuous Built-In Tests confirm safety and functionality, and lock-out controls on a serious fault.		
	Remote automatically aborts if communication is lost		

Enclosure

Ingress Protection	IP65 compliant against dust and water spray; not submersible		
Dimensions	2.8" wide x 5.25" high x 1.4" thick (7.1 cm x 13.3 cm x 3.5 cm) Antenna adds 8.25" (21 cm) to overall height		
Weight	9.1 ounces with battery (258g)		
Material	Desert Tan & Black Powder Coat; Extruded and Molded Aluminum; Glass-filled Nylon; TPE seals; Vandal-Proof switch buttons		

Lifetime Warranty Against Manufacturing Defects

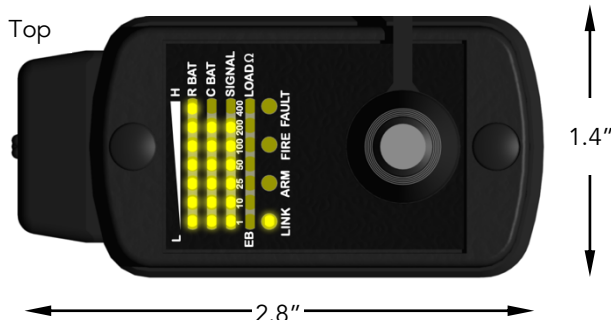
Information is subject to change without notice.



MC5 Top



SC1 Top



For more information on BlasterOne blasting control systems, contact:

BlasterOne Energetic System Controls, Inc. • PO Box 2395 • Tempe, Arizona (USA) • 85280-2395
01-480-626-5189 • info@BlasterOne.com • www.BlasterOne.com

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We make the button; you make the bang!

DCR-3

Dual-Prime, Combination
Remote Blasting Receiver

Bomb Squad / EOD

REMOTE BLASTING

ELEC. AND DUAL SHOCKTUBE

UP TO ¾ MILE LOS RANGE

The compact and lightweight DCR Remote Blasting Machine can fire electrical, electric breach, and shocktube (single or dual-prime) systems. Its powerful blasting circuit will fire at least four Seismic detonators (EU Class 4) in series, and at least three in parallel, at a range of up to ¾ mile LOS. Power-on, and Continuous Tests confirm safety and functionality at all levels of operation. Available in the SC-1 (Single-Channel) Kit; the MC-5 (Five-Channel) Kit; or as an add-on to the MC-5 Starter Kit. Note: cannot function without a paired Controller,

WIRELESS



DCR-3 Dual-Prime, Combination Remote Blasting Receiver



Operation

FCC ID	MCQ-XB900HP <i>(US 900MHz license)</i>			
Modulation	FHSS 900 MHz <i>(902-928 MHz)</i>		TX Power	250mW
Remote Capacity	SCI Kit	One	MC5 Kit	Up to Five
Transmission Mode	Half-Duplex <i>(Talk-Back)</i> . Controller displays DCR's continually updated status.			
Range*	Indoor	Urban	Outdoor/LOS	
	700' <i>(213m)</i>	1600' <i>(488m)</i>	3960' <i>(1207m)</i>	
	<i>*Up to, using 1/2-wave center-fed dipole antenna. Subject to antenna height and gain, surrounding structures, and atmospheric conditions.</i>			
Power Source	Type	2x Panasonic CR123A cells <i>(not included)</i>		
	Life	Up to 3 days standby, or up to 100 shots		
Temperature Range	-13° to 158°F <i>(-25° to 70°C)</i>			

Blasting Capacity

Firing Capabilities	Electric Blasting Caps (EBC); Electric Breech; Shocktube		
EBC Firing Energy	385 VDC @ -11 Joules		
Electrical Blasting Serial Firing Capacity*	US Standard		US Coal/Oil
	EU Class 1	EU Class 2	EU Class 3
Capacity*	81	69	43
	*Actual results may vary depending on detonators, wire, and other factors. Parallel firing not recommended.		
Electric Breech	Safely fires an Electric Breech; voltage releases in <250ms		
Electrical Load Test	Real-Time circuit test; protected by fast-blow, 50mA fuse		
Shocktube Capacity	Single or Dual-Prime, 3mm shock tube		
Shocktube Ignition	Replaceable plasma emitters; up to 50 shots each		

Safety

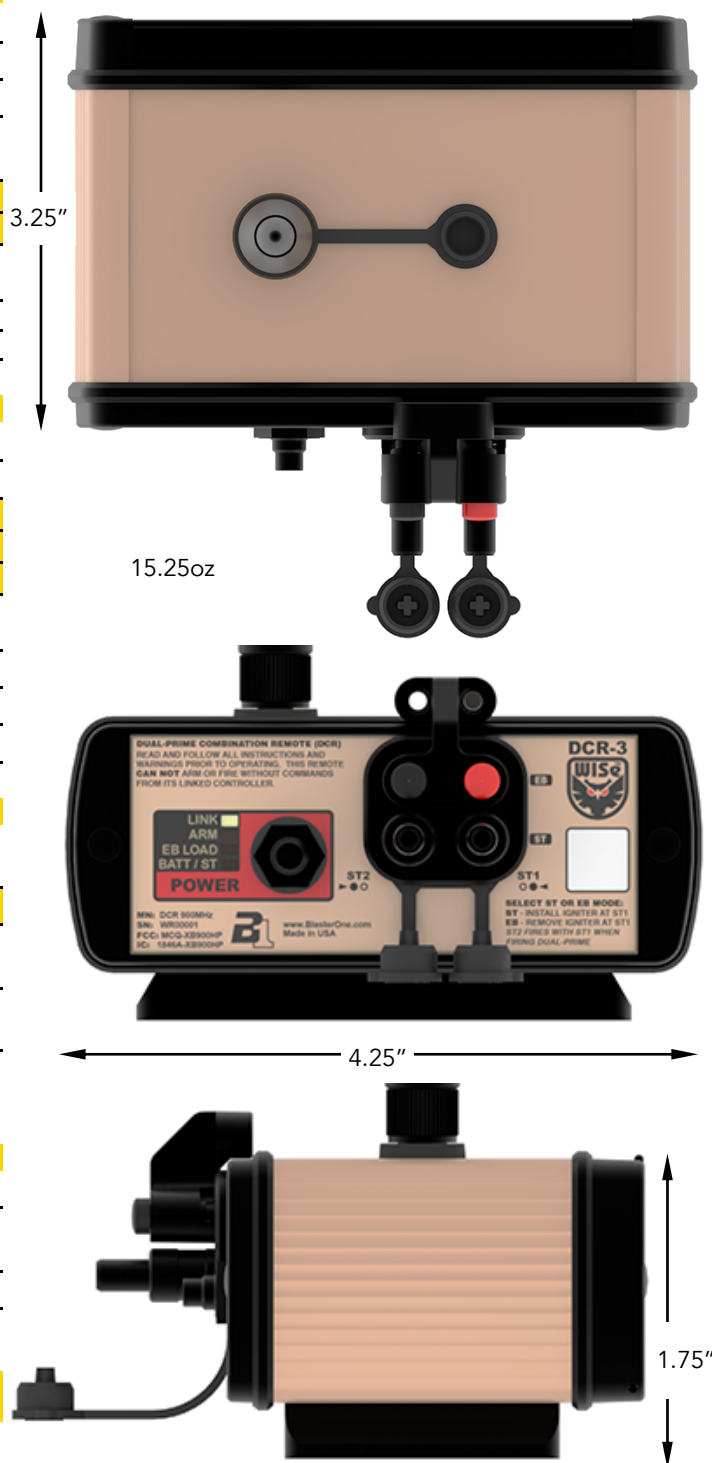
External Control	Cannot function on its own; must be commanded by its paired and linked Controller		
Security & Error Correction	128 Bit AES	16 Bit CRC	New Rolling Code at each link
	Paired sets can only communicate with each other, and only after linking. Interference may jam comms, but cannot hijack.		
Abortable	Instantly aborts at rescinded Arm command, or loss of comms link from Controller.		
Failsafe	Power-On and Continuous Built-In Tests confirm safety and functionality before connecting the explosive train, and lock-out controls on a serious fault. Local status indication.		

Enclosure

Ingress Protection	IP65 compliant against dust and water spray; not submersible		
Dimensions	4.25" wide x 3.25" deep x 1.75" tall (10.8cm x 8.3cm x 4.5cm) Antenna adds 8.25" (21 cm) to overall height		
Weight	15.25 ounces with batteries (432g)		
Material	Desert Tan & Black Powder Coat; Extruded and Molded Aluminum; Glass-filled Nylon; TPE seals; Vandal-Proof switch buttons		

Lifetime Warranty Against Manufacturing Defects

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CATEGORY	FEATURES						COMPLIANCE	
EOD	Ω	EBC	EB	ST'	ST''	📶	RM	RoHS
EOD / BOMB SQUAD	OHM METER	ELECTRIC BLASTING	ELECTRIC BREECH	SINGLE-PRIME SHOCKTUBE	DUAL-PRIME SHOCKTUBE	REMOTE BLASTING	ROBOT MOUNTABLE	LEAD-FREE SOLDERING

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