

MFD Series

Multifunction desktop joystick

MAIN FEATURES

- Two or three axis joystick
- Choice of potentiometer or Hall effect joystick
- Up to six pushbuttons
- USB HID Game Controller interface
- Plug and play connectivity
- Available in two colors
- Made in the USA



The MFD Series is a USB desktop controller with choice of: 2 or 3 axis Hall effect joystick, 2 or 3 axis potentiometer joystick or single axis Hall effect control knob. These desktop joysticks provide ambidextrous operation with a soft silicone wrist pad for added comfort. USB 1.1 HID connectivity allows joystick functions to be user assignable in supported applications. The MFD Series was developed for machine control, professional video surveillance or any application requiring multi-axis positioning control via USB interface.

SPECIFICATIONS*

JOYSTICK MECHANICAL (X & Y) AXIS		
	HALL EFFECT	POTENTIOMETER
Angular travel:	40° (20° each direction)	50° (25° each direction)
Expected life:	5 million	3 million
Centering:	Spring return	Spring return
Maximum vertical load:	75 lbF	75 lbF
Maximum horizontal load:	30 lbF*	24 lbF*

* Specifications subject to change without notice

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JOYSTICK MECHANICAL: Z AXIS	
Angle	90° (45° each direction)
Centering	Spring return
Maximum applied torque	14 lbFin

SINGLE AXIS KNOB: HCK VERSION	
Angle	90° (45° each direction)
Centering	Spring return
Maximum applied torque	N/A

ELECTRICAL	
Resolution	10 bit
Supply Voltage	5VDC via USB cable
System support	Windows (all), OSX, Linux
Supported protocols	USB HID 1.1 Game Controller Standard DirectX HID drivers Joystick: 3 HID axis Pushbuttons: Up to 8 HID buttons
Cable	USB Male Type A, (60") length

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Ruffy Controls, Inc.
3258 Grey Hawk Ct., Carlsbad, CA 92010
ruffycontrols.com

For more information: sales@ruffycontrols.com

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MATERIALS	
Operating temperature	-20C to 60C
Storage temperature	-40C to 70C
Sealing	Indoor use only
EMC immunity level	EN6100-4-3
Approvals	FCC Part 15 Class B En61000-6-3, EN61000-6-1
EMC emissions	EN61000-6-3
ESD immunity level	EN61000-4-2

MATERIALS	
Desktop housing	ABS
Boots	Silicone (with tear resistant additive)
Handle	Glass & mineral filled

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CONNECTIONS



CABLE*
USB Male type A, 5ft (60") length



* Note: The MFD Series is configured with a black USB cable. The gray cable in product image is not representative of the final product.

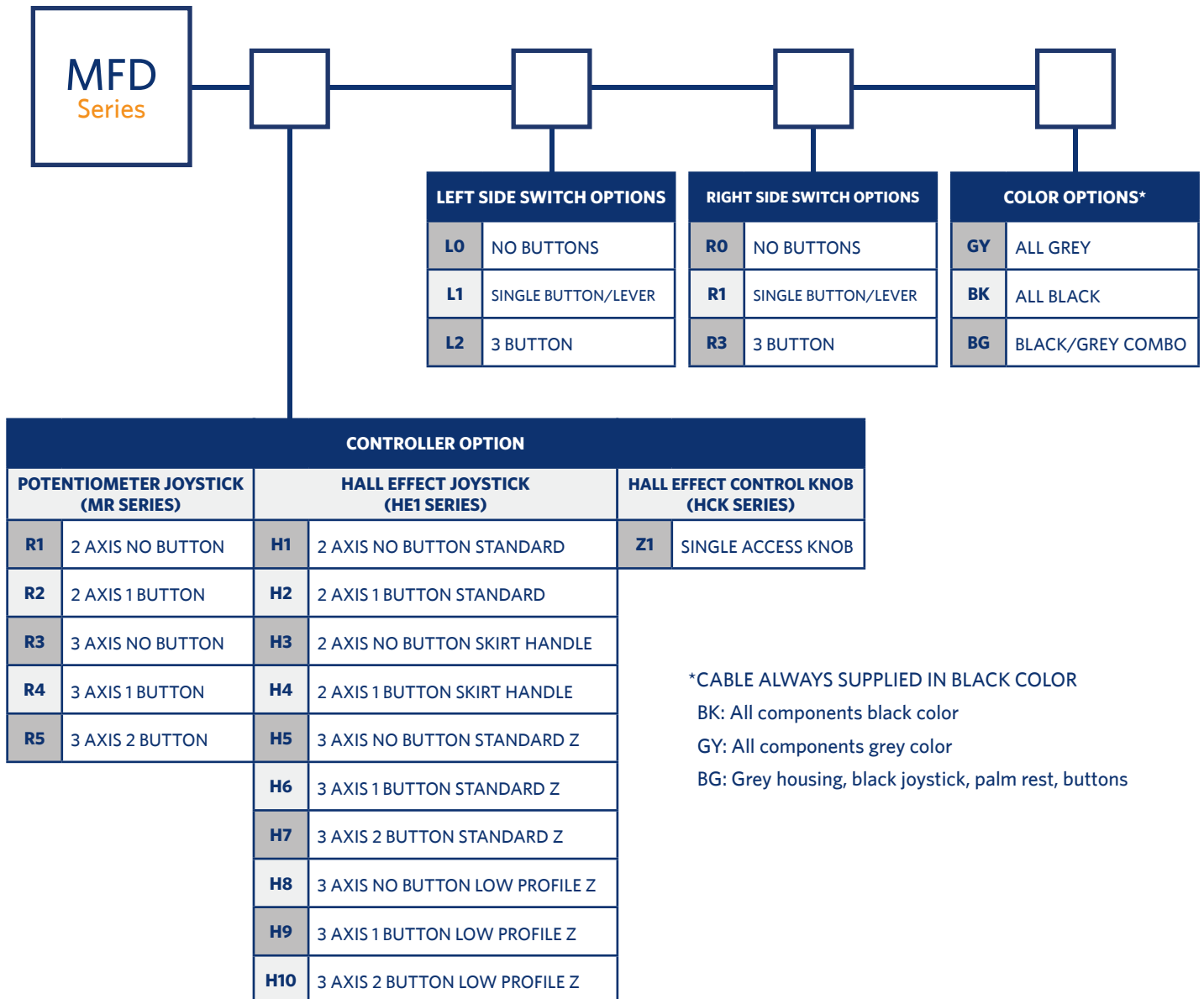
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MFD SERIES PART NUMBER CODE



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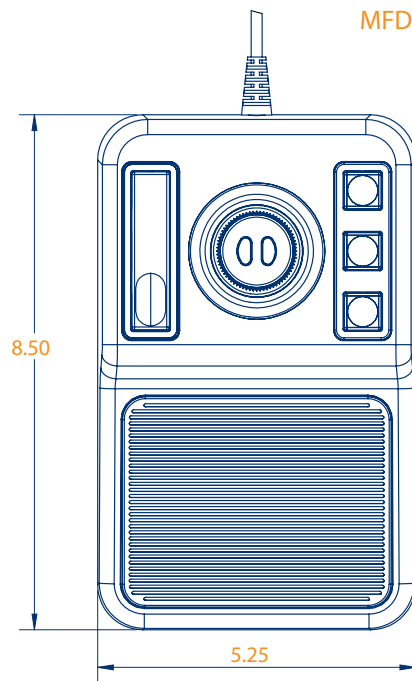
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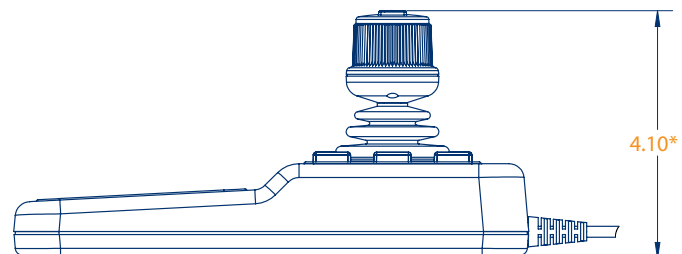
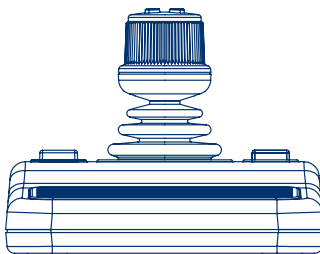
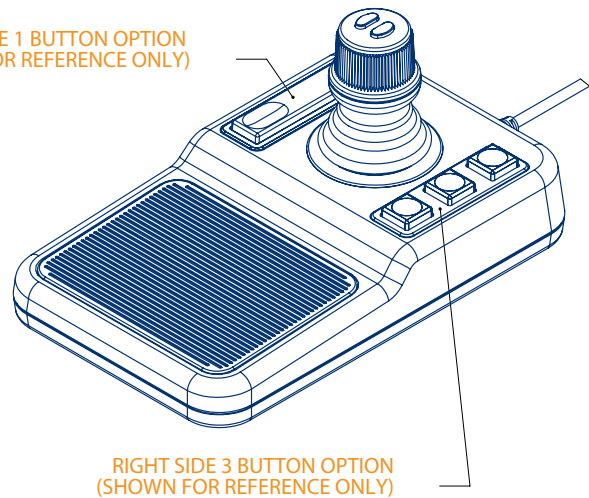
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DIMENSIONS



MFD SERIES - MULTI FUNCTION DESKTOP
SCALE 1:2

LEFT SIDE 1 BUTTON OPTION
(SHOWN FOR REFERENCE ONLY)



* 2 BUTTON LOW PROFILE HALL EFFECT CONTROLLER OPTION SHOWN (FOR REFERENCE)

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