



# **BLASTER'S HIGH-SPEED DIGITAL VIDEO CAMERAS AND ACCESSORIES**

## **PRODUCT LIST**

MREL DOCUMENT #: PROD250212

**THESE PRODUCTS AND PRICES ARE AVAILABLE TO  
PRE-SCREENED, PRE-APPROVED CUSTOMERS ONLY.**

**PRICES ARE SUBJECT TO CHANGE WITHOUT NOTICE.**

**TO OBTAIN FIRM PRICING, PLEASE REQUEST A QUOTATION  
FROM YOUR LOCAL AUTHORIZED MREL BLASTING INSTRUMENTATION DEALER,  
OR FROM MREL'S BLASTING INSTRUMENTATION DEPARTMENT.**

5-779 Sir John A MacDonald Blvd. • Kingston, Ontario K7L 1H3 • Canada

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T: +1 613.545.0466 • E: [contact@mrel.com](mailto:contact@mrel.com) • W: [www.mrel.com](http://www.mrel.com)



1-90-01	BLASTER'S RANGER 3™ HIGH SPEED CAMERA (2560 x 2048, 8 GB, 1 TB SSD)	each	
<p>Blaster's Ranger 3™ Model BR3-HS5i-QC081TB: Rugged (machined aluminum), portable, colour (800 to 6400 ISO depending on selected mode), high speed video camera system with fully integrated PC controller allowing the user to collect, store and process high speed videos with the unit itself. Maximum recording speed = 29,000 fps. Maximum video resolution = 2560 x 2048 pixels. Maximum recording speed at maximum resolution = 253 frames per second (fps). 8 GB image memory giving a recording time of 6.25 seconds at 1000 fps at resolution of 1280 x 1014 pixels. Convenient internal 1 TB SSD to save the recorded videos. Operation from the included external V-mount rechargeable battery or 110-220 VAC.</p> <p>Includes: Blaster's Ranger 3™ High Speed Camera, Panasonic Lumix Micro Four Thirds Camera Lens, Leica DG 100-400mm, F4.0-6.3 Zoom Lens, 12 Inch (30cm) screen for setup of the camera, Wireless finger trackball mouse for operation of the camera, ProAnalyst® 2023 Software (Blaster's Custom Toolbox, 1 USB License) (Product 1-50-06) which allows auto-tracking of one feature and/or manually tracking of up to 32 features and exporting to Microsoft Excel™ for further analysis and graphing, Blaster's Ranger 3™ Tripod, Blaster's Ranger 3™ Trigger Switch, Blaster's Ranger 3™ V-mount battery, Power Adapters and cables for external V-mount battery and AC operation, Blaster's Ranger 3™ Operations Manual (English and Spanish currently available), Blaster's Ranger 3™ Carry Case.</p> <p>Includes MREL's 1 year Comprehensive 100% Parts and Labour Warranty.</p> <p><u>BLASTER'S RANGER 3™ OPTIONS (NOT INCLUDED):</u></p> <p><b>Blaster's Ranger 3™ Monochrome Option (Product 1-90-12):</b> Changes the camera from colour only to monochrome only to increase the light sensitivity of the camera (1600 to 12,800 ISO) for low light conditions.</p> <p><b>Blaster's Ranger 3™ Portability Upgrade (Product 1-90-13):</b> Provides the user with the additional ability to use the Blaster's Ranger 3™ camera without a tripod. This optional hardware includes a top handle and two side handles as well as a pan/tilt monitor mount for the tablet computer.</p> <p><b>Blaster's Ranger 3™ Dust and Rain Shield (Product 1-90-14):</b> Protects Blaster's Ranger 3™ cameras, lens and touchscreen from rain, dust and mud.</p> <p><b>Blaster's Ranger 3™ V-Mount Battery (Product 1-90-15):</b> Additional/replacement battery for Blaster's Ranger 3™ cameras.</p> <p><b>Blaster's Ranger 3™ Lens Adapter, MFT To C-Mount (Product 1-90-16):</b> Provides the additional ability to use C-mount lenses with the Blaster's Ranger 3™ cameras.</p> <p><b>Blaster's Ranger 3™ Lens Adapter, MFT To Nikon F-Mount (Product 1-90-17):</b> Provides the additional ability to use Nikon F-mount lenses with the Blaster's Ranger 3™ cameras.</p> <p><b>Blaster's Ranger 3™ Microsoft® Surface Go 4 Tablet PC running Windows® (Product 1-90-18):</b> Provides wireless communication with the camera to control the camera from a short distance.</p> <p><b>Blaster's Ranger 3™ Wireless Range Extender (Product 1-90-19):</b> Includes a portable travel router to allow the wireless signal to be relocated and have greater distance.</p> <p><b>Blaster's Ranger 3™ Battery Operational Extender (Product 1-90-20):</b> Includes a V-Mount adapter to attach to the Blaster's Ranger 3™ to allow for 2 V-Mount batteries to be used and allow for hot swapping to extend the operational time of the camera by exchanging batteries. This line item is supplied with the V-Mount adapter and an additional V-Mount battery.</p> <p><u>BLASTER'S RANGER 3™ ACCESSORIES (NOT INCLUDED):</u></p> <p><b>PWT™ Portable Wireless Trigger (Product 1-51-01):</b> To command-trigger the camera wirelessly from up to 500 m (1,640 ft.) distance.</p> <p><b>ProAnalyst® 2023 Software (Professional Analyst Toolbox, 1 USB License) (Product 1-50-08):</b> Includes all the analysis features and engines for auto-tracking objects in 1-D and 2-D, data reduction and report generation.</p> <p><b>ProAnalyst® 2023 Software (Professional Analyst 3-D Toolbox, 1 USB License) (Product 1-50-09):</b> Includes all the features of the Professional Edition, plus the 3-D Manager. Analyze events captured by multiple cameras to reconstruct and display motion in 3-D with accuracy.</p> <p><b>Other Lenses:</b> A wide variety of MFT, C-Mount and F-Mount lenses to meet specific requirements - contact MREL.</p>			

1-90-02	BLASTER'S RANGER 3™ HIGH SPEED CAMERA (2560 x 2048, 8 GB, 2 TB SSD)	each	
<p>Blaster's Ranger 3™ Model BR3-HS5i-QC082TB: Rugged (machined aluminum), portable, colour (800 to 6400 ISO depending on selected mode), high speed video camera system with fully integrated PC controller allowing the user to collect, store and process high speed videos with the unit itself. Maximum recording speed = 29,000 fps. Maximum video resolution = 2560 x 2048 pixels. Maximum recording speed at maximum resolution = 253 frames per second (fps). 8 GB image memory giving a recording time of 6.25 seconds at 1000 fps at resolution of 1280 x 1014 pixels. Convenient internal 2 TB SSD to save the recorded videos. Operation from the included external V-mount rechargeable battery or 110-220 VAC.</p> <p>Includes: Blaster's Ranger 3™ High Speed Camera, Panasonic Lumix Micro Four Thirds Camera Lens, Leica DG 100-400mm, F4.0-6.3 Zoom Lens, 12 Inch (30cm) screen for setup of the camera, Wireless finger trackball mouse for operation of the camera, ProAnalyst® 2023 Software (Blaster's Custom Toolbox, 1 USB License) (Product 1-50-06) which allows auto-tracking of one feature and/or manually tracking of up to 32 features and exporting to Microsoft Excel™ for further analysis and graphing, Blaster's Ranger 3™ Tripod, Blaster's Ranger 3™ Trigger Switch, Blaster's Ranger 3™ V-mount battery, Power Adapters and cables for external V-mount battery and AC operation, Blaster's Ranger 3™ Operations Manual (English and Spanish currently available), Blaster's Ranger 3™ Carry Case.</p> <p>Includes MREL's 1 year Comprehensive 100% Parts and Labour Warranty.</p> <p><b>BLASTER'S RANGER 3™ OPTIONS (NOT INCLUDED):</b></p> <p><b>Blaster's Ranger 3™ Monochrome Option (Product 1-90-12):</b> Changes the camera from colour only to monochrome only to increase the light sensitivity of the camera (1600 to 12,800 ISO) for low light conditions.</p> <p><b>Blaster's Ranger 3™ Portability Upgrade (Product 1-90-13):</b> Provides the user with the additional ability to use the Blaster's Ranger 3™ camera without a tripod. This optional hardware includes a top handle and two side handles as well as a pan/tilt monitor mount for the tablet computer.</p> <p><b>Blaster's Ranger 3™ Dust and Rain Shield (Product 1-90-14):</b> Protects Blaster's Ranger 3™ cameras, lens and touchscreen from rain, dust and mud.</p> <p><b>Blaster's Ranger 3™ V-Mount Battery (Product 1-90-15):</b> Additional/replacement battery for Blaster's Ranger 3™ cameras.</p> <p><b>Blaster's Ranger 3™ Lens Adapter, MFT To C-Mount (Product 1-90-16):</b> Provides the additional ability to use C-mount lenses with the Blaster's Ranger 3™ cameras.</p> <p><b>Blaster's Ranger 3™ Lens Adapter, MFT To Nikon F-Mount (Product 1-90-17):</b> Provides the additional ability to use Nikon F-mount lenses with the Blaster's Ranger 3™ cameras.</p> <p><b>Blaster's Ranger 3™ Microsoft® Surface Go 4 Tablet PC running Windows® (Product 1-90-18):</b> Provides wireless communication with the camera to control the camera from a short distance.</p> <p><b>Blaster's Ranger 3™ Wireless Range Extender (Product 1-90-19):</b> Includes a portable travel router to allow the wireless signal to be relocated and have greater distance.</p> <p><b>Blaster's Ranger 3™ Battery Operational Extender (Product 1-90-20):</b> Includes a V-Mount adapter to attach to the Blaster's Ranger 3™ to allow for 2 V-Mount batteries to be used and allow for hot swapping to extend the operational time of the camera by exchanging batteries. This line item is supplied with the V-Mount adapter and an additional V-Mount battery.</p> <p><b>BLASTER'S RANGER 3™ ACCESSORIES (NOT INCLUDED):</b></p> <p><b>PWT™ Portable Wireless Trigger (Product 1-51-01):</b> To command-trigger the camera wirelessly from up to 500 m (1,640 ft.) distance.</p> <p><b>ProAnalyst® 2023 Software (Professional Analyst Toolbox, 1 USB License) (Product 1-50-08):</b> Includes all the analysis features and engines for auto-tracking objects in 1-D and 2-D, data reduction and report generation.</p> <p><b>ProAnalyst® 2023 Software (Professional Analyst 3-D Toolbox, 1 USB License) (Product 1-50-09):</b> Includes all the features of the Professional Edition, plus the 3-D Manager. Analyze events captured by multiple cameras to reconstruct and display motion in 3-D with accuracy.</p> <p><b>Other Lenses:</b> A wide variety of MFT, C-Mount and F-Mount lenses to meet specific requirements - contact MREL.</p>			

1-90-03	<b>BLASTER'S RANGER 3™ HIGH SPEED CAMERA (2560 x 2048, 16 GB, 1 TB SSD)</b>	each	
<p>Blaster's Ranger 3™ Model BR3-HS5i-QC161TB: Rugged (machined aluminum), portable, colour (800 to 6400 ISO depending on selected mode), high speed video camera system with fully integrated PC controller allowing the user to collect, store and process high speed videos with the unit itself. Maximum recording speed = 29,000 fps. Maximum video resolution = 2560 x 2048 pixels. Maximum recording speed at maximum resolution = 253 frames per second (fps). <b>16 GB</b> image memory giving a recording time of 12.5 seconds at 1000 fps at resolution of 1280 x 1014 pixels. Convenient internal <b>1 TB SSD</b> to save the recorded videos. Operation from the included external V-mount rechargeable battery or 110-220 VAC.</p> <p>Includes: Blaster's Ranger 3™ High Speed Camera, Panasonic Lumix Micro Four Thirds Camera Lens, Leica DG 100-400mm, F4.0-6.3 Zoom Lens, 12 Inch (30cm) screen for setup of the camera, Wireless finger trackball mouse for operation of the camera, ProAnalyst® 2023 Software (Blaster's Custom Toolbox, 1 USB License) (Product 1-50-06) which allows auto-tracking of one feature and/or manually tracking of up to 32 features and exporting to Microsoft Excel™ for further analysis and graphing, Blaster's Ranger 3™ Tripod, Blaster's Ranger 3™ Trigger Switch, Blaster's Ranger 3™ V-mount battery, Power Adapters and cables for external V-mount battery and AC operation, Blaster's Ranger 3™ Operations Manual (English and Spanish currently available), Blaster's Ranger 3™ Carry Case.</p> <p>Includes MREL's 1 year Comprehensive 100% Parts and Labour Warranty.</p>			
<p><b>BLASTER'S RANGER 3™ OPTIONS (NOT INCLUDED):</b></p> <p><b>Blaster's Ranger 3™ Monochrome Option (Product 1-90-12):</b> Changes the camera from colour only to monochrome only to increase the light sensitivity of the camera (1600 to 12,800 ISO) for low light conditions.</p> <p><b>Blaster's Ranger 3™ Portability Upgrade (Product 1-90-13):</b> Provides the user with the additional ability to use the Blaster's Ranger 3™ camera without a tripod. This optional hardware includes a top handle and two side handles as well as a pan/tilt monitor mount for the tablet computer.</p> <p><b>Blaster's Ranger 3™ Dust and Rain Shield (Product 1-90-14):</b> Protects Blaster's Ranger 3™ cameras, lens and touchscreen from rain, dust and mud.</p> <p><b>Blaster's Ranger 3™ V-Mount Battery (Product 1-90-15):</b> Additional/replacement battery for Blaster's Ranger 3™ cameras.</p> <p><b>Blaster's Ranger 3™ Lens Adapter, MFT To C-Mount (Product 1-90-16):</b> Provides the additional ability to use C-mount lenses with the Blaster's Ranger 3™ cameras.</p> <p><b>Blaster's Ranger 3™ Lens Adapter, MFT To Nikon F-Mount (Product 1-90-17):</b> Provides the additional ability to use Nikon F-mount lenses with the Blaster's Ranger 3™ cameras.</p> <p><b>Blaster's Ranger 3™ Microsoft® Surface Go 4 Tablet PC running Windows® (Product 1-90-18):</b> Provides wireless communication with the camera to control the camera from a short distance.</p> <p><b>Blaster's Ranger 3™ Wireless Range Extender (Product 1-90-19):</b> Includes a portable travel router to allow the wireless signal to be relocated and have greater distance.</p> <p><b>Blaster's Ranger 3™ Battery Operational Extender (Product 1-90-20):</b> Includes a V-Mount adapter to attach to the Blaster's Ranger 3™ to allow for 2 V-Mount batteries to be used and allow for hot swapping to extend the operational time of the camera by exchanging batteries. This line item is supplied with the V-Mount adapter and an additional V-Mount battery.</p>			
<p><b>BLASTER'S RANGER 3™ ACCESSORIES (NOT INCLUDED):</b></p> <p><b>PWT™ Portable Wireless Trigger (Product 1-51-01):</b> To command-trigger the camera wirelessly from up to 500 m (1,640 ft.) distance.</p> <p><b>ProAnalyst® 2023 Software (Professional Analyst Toolbox, 1 USB License) (Product 1-50-08):</b> Includes all the analysis features and engines for auto-tracking objects in 1-D and 2-D, data reduction and report generation.</p> <p><b>ProAnalyst® 2023 Software (Professional Analyst 3-D Toolbox, 1 USB License) (Product 1-50-09):</b> Includes all the features of the Professional Edition, plus the 3-D Manager. Analyze events captured by multiple cameras to reconstruct and display motion in 3-D with accuracy.</p> <p><b>Other Lenses:</b> A wide variety of MFT, C-Mount and F-Mount lenses to meet specific requirements - contact MREL.</p>			








1-90-04	<b>BLASTER'S RANGER 3™ HIGH SPEED CAMERA (2560 x 2048, 32 GB, 1 TB SSD)</b>	each	
<p>Blaster's Ranger 3™ Model BR3-HS5i-QC321TB: Rugged (machined aluminum), portable, colour (800 to 6400 ISO depending on selected mode), high speed video camera system with fully integrated PC controller allowing the user to collect, store and process high speed videos with the unit itself. Maximum recording speed = 29,000 fps. Maximum video resolution = 2560 x 2048 pixels. Maximum recording speed at maximum resolution = 253 frames per second (fps). <b>32 GB</b> image memory giving a recording time of 25.0 seconds at 1000 fps at resolution of 1280 x 1014 pixels. Convenient internal <b>1 TB SSD</b> to save the recorded videos. Operation from the included external V-mount rechargeable battery or 110-220 VAC.</p> <p>Includes: Blaster's Ranger 3™ High Speed Camera, Panasonic Lumix Micro Four Thirds Camera Lens, Leica DG 100-400mm, F4.0-6.3 Zoom Lens, 12 Inch (30cm) screen for setup of the camera, Wireless finger trackball mouse for operation of the camera, ProAnalyst® 2023 Software (Blaster's Custom Toolbox, 1 USB License) (Product 1-50-06) which allows auto-tracking of one feature and/or manually tracking of up to 32 features and exporting to Microsoft Excel™ for further analysis and graphing, Blaster's Ranger 3™ Tripod, Blaster's Ranger 3™ Trigger Switch, Blaster's Ranger 3™ V-mount battery, Power Adapters and cables for external V-mount battery and AC operation, Blaster's Ranger 3™ Operations Manual (English and Spanish currently available), Blaster's Ranger 3™ Carry Case.</p> <p>Includes MREL's 1 year Comprehensive 100% Parts and Labour Warranty.</p>			
<p><b>BLASTER'S RANGER 3™ OPTIONS (NOT INCLUDED):</b></p> <p><b>Blaster's Ranger 3™ Monochrome Option (Product 1-90-12):</b> Changes the camera from colour only to monochrome only to increase the light sensitivity of the camera (1600 to 12,800 ISO) for low light conditions.</p> <p><b>Blaster's Ranger 3™ Portability Upgrade (Product 1-90-13):</b> Provides the user with the additional ability to use the Blaster's Ranger 3™ camera without a tripod. This optional hardware includes a top handle and two side handles as well as a pan/tilt monitor mount for the tablet computer.</p> <p><b>Blaster's Ranger 3™ Dust and Rain Shield (Product 1-90-14):</b> Protects Blaster's Ranger 3™ cameras, lens and touchscreen from rain, dust and mud.</p> <p><b>Blaster's Ranger 3™ V-Mount Battery (Product 1-90-15):</b> Additional/replacement battery for Blaster's Ranger 3™ cameras.</p> <p><b>Blaster's Ranger 3™ Lens Adapter, MFT To C-Mount (Product 1-90-16):</b> Provides the additional ability to use C-mount lenses with the Blaster's Ranger 3™ cameras.</p> <p><b>Blaster's Ranger 3™ Lens Adapter, MFT To Nikon F-Mount (Product 1-90-17):</b> Provides the additional ability to use Nikon F-mount lenses with the Blaster's Ranger 3™ cameras.</p> <p><b>Blaster's Ranger 3™ Microsoft® Surface Go 4 Tablet PC running Windows® (Product 1-90-18):</b> Provides wireless communication with the camera to control the camera from a short distance.</p> <p><b>Blaster's Ranger 3™ Wireless Range Extender (Product 1-90-19):</b> Includes a portable travel router to allow the wireless signal to be relocated and have greater distance.</p> <p><b>Blaster's Ranger 3™ Battery Operational Extender (Product 1-90-20):</b> Includes a V-Mount adapter to attach to the Blaster's Ranger 3™ to allow for 2 V-Mount batteries to be used and allow for hot swapping to extend the operational time of the camera by exchanging batteries. This line item is supplied with the V-Mount adapter and an additional V-Mount battery.</p>			
<p><b>BLASTER'S RANGER 3™ ACCESSORIES (NOT INCLUDED):</b></p> <p><b>PWT™ Portable Wireless Trigger (Product 1-51-01):</b> To command-trigger the camera wirelessly from up to 500 m (1,640 ft.) distance.</p> <p><b>ProAnalyst® 2023 Software (Professional Analyst Toolbox, 1 USB License) (Product 1-50-08):</b> Includes all the analysis features and engines for auto-tracking objects in 1-D and 2-D, data reduction and report generation.</p> <p><b>ProAnalyst® 2023 Software (Professional Analyst 3-D Toolbox, 1 USB License) (Product 1-50-09):</b> Includes all the features of the Professional Edition, plus the 3-D Manager. Analyze events captured by multiple cameras to reconstruct and display motion in 3-D with accuracy.</p> <p><b>Other Lenses:</b> A wide variety of MFT, C-Mount and F-Mount lenses to meet specific requirements - contact MREL.</p>			






1-90-05	<b>BLASTER'S RANGER 3™ HIGH SPEED CAMERA (2560 x 2048, 16 GB, 1 TB SSD, STREAMING)</b>	each	
	<p>Blaster's Ranger 3™ Model BR3-HS5i-QC161TBD: Rugged (machined aluminum), portable, colour (800 to 6400 ISO depending on selected mode), high speed video camera system with fully integrated PC controller allowing the user to collect, store and process high speed videos with the unit itself. Maximum recording speed = 29,000 fps. Maximum video resolution = 2560 x 2048 pixels. Maximum recording speed at maximum resolution = 253 frames per second (fps). 16 GB image memory and streaming ability allowing the camera to have an extra long recording time.</p> <p>Example 6.4 minutes recording time combinations:</p> <p>6.4 minutes recording time at 991 fps at 1280 x 1024 pixels.</p> <p>6.4 minutes recording time at 1403 fps at 1280 x 720 pixels.</p> <p>10.25 minutes recording time at 1677 fps at 800 x 600 pixels.</p> <p>Convenient internal 1 TB SSD to save the recorded videos. Operation from the included external V-mount rechargeable battery or 110-220 VAC.</p> <p>Includes: Blaster's Ranger 3™ High Speed Camera, Panasonic Lumix Micro Four Thirds Camera Lens, Leica DG 100-400mm, F4.0-6.3 Zoom Lens, 12 Inch (30cm) screen for setup of the camera, Wireless finger trackball mouse for operation of the camera, ProAnalyst® 2023 Software (Blaster's Custom Toolbox, 1 USB License) (Product 1-50-06) which allows auto-tracking of one feature and/or manually tracking of up to 32 features and exporting to Microsoft Excel™ for further analysis and graphing, Blaster's Ranger 3™ Tripod, Blaster's Ranger 3™ Trigger Switch, Blaster's Ranger 3™ V-mount battery, Power Adapters and cables for external V-mount battery and AC operation, Blaster's Ranger 3™ Operations Manual (English and Spanish currently available), Blaster's Ranger 3™ Carry Case.</p> <p>Includes MREL's 1 year Comprehensive 100% Parts and Labour Warranty.</p> <p><b>BLASTER'S RANGER 3™ OPTIONS (NOT INCLUDED):</b></p> <p><b>Blaster's Ranger 3™ Monochrome Option (Product 1-90-12):</b> Changes the camera from colour only to monochrome only to increase the light sensitivity of the camera (1600 to 12,800 ISO) for low light conditions.</p> <p><b>Blaster's Ranger 3™ Portability Upgrade (Product 1-90-13):</b> Provides the user with the additional ability to use the Blaster's Ranger 3™ camera without a tripod. This optional hardware includes a top handle and two side handles as well as a pan/tilt monitor mount for the tablet computer.</p> <p><b>Blaster's Ranger 3™ Dust and Rain Shield (Product 1-90-14):</b> Protects Blaster's Ranger 3™ cameras, lens and touchscreen from rain, dust and mud.</p> <p><b>Blaster's Ranger 3™ V-Mount Battery (Product 1-90-15):</b> Additional/replacement battery for Blaster's Ranger 3™ cameras.</p> <p><b>Blaster's Ranger 3™ Lens Adapter, MFT To C-Mount (Product 1-90-16):</b> Provides the additional ability to use C-mount lenses with the Blaster's Ranger 3™ cameras.</p> <p><b>Blaster's Ranger 3™ Lens Adapter, MFT To Nikon F-Mount (Product 1-90-17):</b> Provides the additional ability to use Nikon F-mount lenses with the Blaster's Ranger 3™ cameras.</p> <p><b>Blaster's Ranger 3™ Microsoft® Surface Go 4 Tablet PC running Windows® (Product 1-90-18):</b> Provides wireless communication with the camera to control the camera from a short distance.</p> <p><b>Blaster's Ranger 3™ Wireless Range Extender (Product 1-90-19):</b> Includes a portable travel router to allow the wireless signal to be relocated and have greater distance.</p> <p><b>Blaster's Ranger 3™ Battery Operational Extender (Product 1-90-20):</b> Includes a V-Mount adapter to attach to the Blaster's Ranger 3™ to allow for 2 V-Mount batteries to be used and allow for hot swapping to extend the operational time of the camera by exchanging batteries. This line item is supplied with the V-Mount adapter and an additional V-Mount battery.</p> <p><b>BLASTER'S RANGER 3™ ACCESSORIES (NOT INCLUDED):</b></p> <p><b>PWT™ Portable Wireless Trigger (Product 1-51-01):</b> To command-trigger the camera wirelessly from up to 500 m (1,640 ft.) distance.</p> <p><b>ProAnalyst® 2023 Software (Professional Analyst Toolbox, 1 USB License) (Product 1-50-08):</b> Includes all the analysis features and engines for auto-tracking objects in 1-D and 2-D, data reduction and report generation.</p> <p><b>ProAnalyst® 2023 Software (Professional Analyst 3-D Toolbox, 1 USB License) (Product 1-50-09):</b> Includes all the features of the Professional Edition, plus the 3-D Manager. Analyze events captured by multiple cameras to reconstruct and display motion in 3-D with accuracy.</p> <p><b>Other Lenses:</b> A wide variety of MFT, C-Mount and F-Mount lenses to meet specific requirements - contact MREL.</p>		

1-90-06	<b>BLASTER'S RANGER 3™ HIGH SPEED CAMERA (2560 x 2048, 32 GB, 1 TB SSD, STREAMING)</b>	each	
	<p>Blaster's Ranger 3™ Model BR3-HS5i-QC321TBD: Rugged (machined aluminum), portable, colour (800 to 6400 ISO depending on selected mode), high speed video camera system with fully integrated PC controller allowing the user to collect, store and process high speed videos with the unit itself. Maximum recording speed = 29,000 fps. Maximum video resolution = 2560 x 2048 pixels. Maximum recording speed at maximum resolution = 253 frames per second (fps). <b>32 GB image memory and streaming ability</b> allowing the camera to have an extra long recording time.</p> <p>Example 12.8 minutes recording time combinations:</p> <p>12.8 minutes recording time at 991 fps at 1280 x 1024 pixels.</p> <p>12.8 minutes recording time at 1403 fps at 1280 x 720 pixels.</p> <p>20.5 minutes recording time at 1677 fps at 800 x 600 pixels.</p> <p>Convenient internal <b>1 TB SSD</b> to save the recorded videos. Operation from the included external V-mount rechargeable battery or 110-220 VAC.</p> <p>Includes: Blaster's Ranger 3™ High Speed Camera, Panasonic Lumix Micro Four Thirds Camera Lens, Leica DG 100-400mm, F4.0-6.3 Zoom Lens, 12 Inch (30cm) screen for setup of the camera, Wireless finger trackball mouse for operation of the camera, ProAnalyst® 2023 Software (Blaster's Custom Toolbox, 1 USB License) (Product 1-50-06) which allows auto-tracking of one feature and/or manually tracking of up to 32 features and exporting to Microsoft Excel™ for further analysis and graphing, Blaster's Ranger 3™ Tripod, Blaster's Ranger 3™ Trigger Switch, Blaster's Ranger 3™ V-mount battery, Power Adapters and cables for external V-mount battery and AC operation, Blaster's Ranger 3™ Operations Manual (English and Spanish currently available), Blaster's Ranger 3™ Carry Case.</p> <p>Includes MREL's 1 year Comprehensive 100% Parts and Labour Warranty.</p> <p><b>BLASTER'S RANGER 3™ OPTIONS (NOT INCLUDED):</b></p> <p><b>Blaster's Ranger 3™ Monochrome Option (Product 1-90-12):</b> Changes the camera from colour only to monochrome only to increase the light sensitivity of the camera (1600 to 12,800 ISO) for low light conditions.</p> <p><b>Blaster's Ranger 3™ Portability Upgrade (Product 1-90-13):</b> Provides the user with the additional ability to use the Blaster's Ranger 3™ camera without a tripod. This optional hardware includes a top handle and two side handles as well as a pan/tilt monitor mount for the tablet computer.</p> <p><b>Blaster's Ranger 3™ Dust and Rain Shield (Product 1-90-14):</b> Protects Blaster's Ranger 3™ cameras, lens and touchscreen from rain, dust and mud.</p> <p><b>Blaster's Ranger 3™ V-Mount Battery (Product 1-90-15):</b> Additional/replacement battery for Blaster's Ranger 3™ cameras.</p> <p><b>Blaster's Ranger 3™ Lens Adapter, MFT To C-Mount (Product 1-90-16):</b> Provides the additional ability to use C-mount lenses with the Blaster's Ranger 3™ cameras.</p> <p><b>Blaster's Ranger 3™ Lens Adapter, MFT To Nikon F-Mount (Product 1-90-17):</b> Provides the additional ability to use Nikon F-mount lenses with the Blaster's Ranger 3™ cameras.</p> <p><b>Blaster's Ranger 3™ Microsoft® Surface Go 4 Tablet PC running Windows® (Product 1-90-18):</b> Provides wireless communication with the camera to control the camera from a short distance.</p> <p><b>Blaster's Ranger 3™ Wireless Range Extender (Product 1-90-19):</b> Includes a portable travel router to allow the wireless signal to be relocated and have greater distance.</p> <p><b>Blaster's Ranger 3™ Battery Operational Extender (Product 1-90-20):</b> Includes a V-Mount adapter to attach to the Blaster's Ranger 3™ to allow for 2 V-Mount batteries to be used and allow for hot swapping to extend the operational time of the camera by exchanging batteries. This line item is supplied with the V-Mount adapter and an additional V-Mount battery.</p> <p><b>BLASTER'S RANGER 3™ ACCESSORIES (NOT INCLUDED):</b></p> <p><b>PWT™ Portable Wireless Trigger (Product 1-51-01):</b> To command-trigger the camera wirelessly from up to 500 m (1,640 ft.) distance.</p> <p><b>ProAnalyst® 2023 Software (Professional Analyst Toolbox, 1 USB License) (Product 1-50-08):</b> Includes all the analysis features and engines for auto-tracking objects in 1-D and 2-D, data reduction and report generation.</p> <p><b>ProAnalyst® 2023 Software (Professional Analyst 3-D Toolbox, 1 USB License) (Product 1-50-09):</b> Includes all the features of the Professional Edition, plus the 3-D Manager. Analyze events captured by multiple cameras to reconstruct and display motion in 3-D with accuracy.</p> <p><b>Other Lenses:</b> A wide variety of MFT, C-Mount and F-Mount lenses to meet specific requirements - contact MREL.</p>		




## **BLASTER'S RANGER 3™ HIGH SPEED CAMERA OPTIONS AND ACCESSORIES**

<b>1-90-12</b>	<b>BLASTER'S RANGER 3™ MONOCHROME OPTION</b>	<b>each</b>	
Blaster's Ranger 3™ camera modification to change the camera model from colour only to monochrome only and thus improving the camera's light sensitivity from 800 to 6400 ISO for colour to 1600 to 12000 ISO for monochrome.			
			
<b>1-90-13</b>	<b>BLASTER'S RANGER 3™ PORTABILITY UPGRADE</b>	<b>each</b>	
Provides the user with the additional ability to use the Blaster's Ranger 3™ camera without a tripod. This optional hardware includes a top handle and two side handles as well as a pan/tilt monitor mount for the tablet computer. With these handles, this allows the user to move the camera effortlessly to capture different types of motion.			
			
<b>1-90-14</b>	<b>BLASTER'S RANGER 3™ DUST AND RAIN SHIELD</b>	<b>each</b>	
Protects Blaster's Ranger 3™ cameras, lens and tablets from rain, dust and mud. Easy-to-use and lightweight fabric offering full access to the camera's controls and tablet. Note: this does not make for a dust proof or rain proof system, it simply adds a basic level of protection.			
			
<b>1-90-15</b>	<b>BLASTER'S RANGER 3™ V-MOUNT BATTERY</b>	<b>each</b>	
Additional/replacement battery for Blaster's Ranger 3™ cameras.			
			
<b>1-90-16</b>	<b>BLASTER'S RANGER 3™ LENS ADAPTER, MFT TO C-MOUNT</b>	<b>each</b>	
Provides the additional ability to use C-mount lenses with the Blaster's Ranger 3™ cameras.			
			
<b>1-90-17</b>	<b>BLASTER'S RANGER 3™ LENS ADAPTER, MFT TO NIKON F-MOUNT</b>	<b>each</b>	
Provides the additional ability to use Nikon F-mount lenses with the Blaster's Ranger 3™ cameras.			
			
<b>1-90-18</b>	<b>BLASTER'S RANGER 3™ MICROSOFT® SURFACE GO 4 TABLET PC RUNNING WINDOWS®</b>	<b>each</b>	
Provides wireless communication with the camera to control the camera from a short distance.			
			



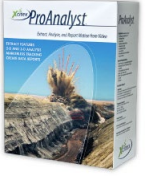



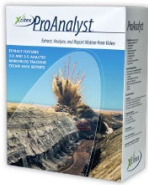

<b>1-90-19</b>	<b>BLASTER'S RANGER 3™ WIRELESS RANGE EXTENDER</b>	<b>each</b>	
Includes a portable travel router to allow the wireless signal to be relocated and have greater distance.			
			
<b>1-90-20</b>	<b>BLASTER'S RANGER 3™ BATTERY OPERATIONAL EXTENDER</b>	<b>each</b>	
Includes a V-Mount adapter to attach to the Blaster's Ranger 3™ to allow for 2 V-Mount batteries to be used and allow for hot swapping to extend the operational time of the camera by exchanging batteries. This line item is supplied with the V-Mount adapter and an additional V-Mount battery.			
			
<b>LENSES</b>	<b>HIGH SPEED C-MOUNT AND F-MOUNT LENSES</b>	<b>each</b>	
MREL supplies a variety of high speed zoom and fixed focal length lenses to suit a variety of high speed video recording applications. Tell us about your application and your camera and MREL will recommend one or more appropriate zoom or fixed focal length high speed lenses.			
			



1-51-01	PWT™ PORTABLE WIRELESS TRIGGER	each	
 	<p>2.4 GHz Transmitter/Receiver pair, providing wireless remote triggering of instrumentation such as high-speed cameras. This radio frequency approved for use in North America and throughout the world. Utilizes Frequency Hopping Spread Spectrum Technology to provide superior signal reliability. 50 mW transmission power, up to 500 m (1,640 ft.) range "line of sight". Includes Transmitter, folding antenna, push button trigger switch, 120 VAC or 230 VAC Battery Charger (as specified by Customer), adapter for external 6 VDC. Includes Receiver, folding antenna, 120 VAC or 230 VAC Battery Charger (as specified by Customer), adapter for external 6 VDC. Padded Carry Case. Includes 2 professional tripods with pistol grip action camera ball mounts. Colour Operations Manual (English or Spanish as specified by Customer). Includes MREL's 1 year Comprehensive 100% Parts and Labour Warranty.</p>		
1-51-03	PWT™ PORTABLE WIRELESS TRIGGER ADDITIONAL RECEIVER	each	
	<p>Additional 2.4 GHz Receiver for use with Product 1-51-01. Programmed to match Transmitter. Provides remote triggering at an additional location. This radio frequency approved for use in North America and throughout the world. Utilizes Frequency Hopping Spread Spectrum Technology to provide superior signal reliability. Includes Receiver, folding antenna, 120 VAC or 230 VAC Battery Charger (as specified by Customer), adapter for external 6 VDC. Includes 1 professional tripod with pistol grip action camera ball mount. Maximum of 4 Receivers per Transmitter. Includes MREL's 1 year Comprehensive 100% Parts and Labour Warranty.</p>		



1-50-06	PROANALYST® 2023 SOFTWARE (BLASTER'S CUSTOM TOOLBOX, 1 USB LICENSE)	each	
	<p><b>Included</b> with all Blaster's Ranger 3™ High Speed Cameras.</p> <p>ProAnalyst® 2023 is the world's premier software package for measuring moving objects with video. ProAnalyst® 2023 allows you to import virtually any video and quickly extract and quantify motion within that video. Used extensively by NASA, engineers, broadcasters, researchers and athletes, ProAnalyst® 2023 is the ideal companion software to any high speed video camera.</p> <p>The Blaster's Custom Toolbox includes:</p> <ul style="list-style-type: none"> <li>Adaptive Feature Tracking.</li> <li>Orthonormal Calibration.</li> <li>Image Processing.</li> <li>Image Stabilization.</li> <li>Reports and Presentation.</li> <li>Lifetime USB License - no internet connection is required for operation.</li> <li>Self-guided online video training.</li> <li>Electronic documentation.</li> </ul> 		
1-50-08	PROANALYST® 2023 SOFTWARE (PROFESSIONAL ANALYST TOOLBOX, 1 USB LICENSE)	each	
	<p>ProAnalyst® 2023 is the world's premier software package for measuring moving objects with video. ProAnalyst® 2023 allows you to import virtually any video and quickly extract and quantify motion within that video. Used extensively by NASA, engineers, broadcasters, researchers and athletes, ProAnalyst® 2023 is the ideal companion software to any high speed video camera.</p> <p>This edition is the Professional Analyst which includes all available 2-D toolkits:</p> <ul style="list-style-type: none"> <li>Full Parametric Feature Tracking (includes Adaptive Feature Tracking).</li> <li>Constrained Edge Tracking.</li> <li>Particle Tracking.</li> <li>Contour Tracking.</li> <li>Orthonormal Calibration.</li> <li>Perspective Calibration.</li> <li>Image Processing.</li> <li>Image Stabilization.</li> <li>Advanced Data Graphing.</li> <li>Reports and Presentation.</li> <li>Lifetime USB License - no internet connection is required for operation.</li> <li>Self-guided online video training.</li> <li>Electronic documentation.</li> </ul> 		

1-50-09	<b>PROANALYST® 2023 SOFTWARE (PROFESSIONAL ANALYST 3-D TOOLBOX, 1 USB LICENSE)</b>	each	
 <p>Particle Tracking. Contour Tracking. Orthonormal Calibration. Perspective Calibration. 3-D Stereo Calibration (required for 3DS). Image Processing. Image Stabilization. Advanced Data Graphing. Reports and Presentation. Lifetime USB License - no internet connection is required for operation. Self-guided online video training. Electronic documentation.</p> 	<p>ProAnalyst® 2023 is the world's premier software package for measuring moving objects with video. ProAnalyst® 2023 allows you to import virtually any video and quickly extract and quantify motion within that video. Used extensively by NASA, engineers, broadcasters, researchers and athletes, ProAnalyst® 2023 is the ideal companion software to any high speed video camera.</p> <p>This edition is the Professional 3-D Analyst which includes all available 2-D and 3-D toolkits: 3-D Multi-camera Arena (includes AFT, FPFT, 3DS). Constrained Edge Tracking.</p>		

**ADDITIONAL INFORMATION:**

More information on MREL's Blaster's Ranger 3™ High Speed Camera, PWT™ Portable Wireless Trigger and ProAnalyst® 2023 Software is available online at [www.mrel.com](http://www.mrel.com).

All prices are in USD, EXW Kingston, Ontario, Canada and prices are subject to change without notice.

To obtain firm pricing, please request a quotation from your local Authorized MREL Blasting Instrumentation Dealer, or from MREL's Blasting Instrumentation Department:

**MREL GROUP OF COMPANIES LIMITED**  
**5-779 Sir John A MacDonald Blvd.**  
**Kingston, Ontario K7L 1H3**  
**Canada**  
**T: +1.613.545.0466    E: [sales@mrel.com](mailto:sales@mrel.com)**

MREL is committed to product innovation; accordingly products may undergo specification changes without notice.

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