



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

PRODUCT LIST

MREL DOCUMENT #: PROD200101

**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.**

1555 Sydenham Road • Kingston, Ontario K7L 4V4 • Canada

Tel: +1-613-545-0466 • Fax: +1-613-542-8029 • email: blasting@mrel.com • web site: www.mrel.com


BLASTER'S RANGER II™
 HIGH SPEED CAMERA **Lt**
HOW TO SELECT THIS PRODUCT:

The [Blaster's Ranger II™ LT High Speed Cameras](#) do not have a built-in LCD screen or built-in rechargeable battery. You will require a notebook or tablet running a Windows browser to operate this camera. Decide on the maximum resolution of the camera as shown. Consider selecting one or more of the Optional Upgrades and Accessories listed below.

<u>Product #</u>	<u>Product Name</u>	<u>Unit</u>	
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1-58-07	BLASTER'S RANGER II™ LT HIGH SPEED CAMERA (800x600)	each	
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Blaster's Ranger II™ LT Model BRIILT-IL5LC4-B: Rugged (machined aluminum), portable, colour (800 to 6400 ISO depending on selected mode), high speed video camera. Maximum recording speed = 18,644 fps. Maximum video resolution = 800 x 600 pixels. Maximum recording speed at maximum resolution = 1,667 frames per second (fps). 4GB image memory giving a recording time of 8.6 seconds at 1000 fps at maximum resolution. Operation from external 10-30 VDC, or 110-220 VAC. USB ports and SD ports to allow users to easily download images to thumb drives, SD cards, or portable hard drives. Includes: Blaster's Ranger II™ LT High Speed Camera, 12.5-75mm f/1.2 (2/3 in. format) C-mount Zoom Lens, ProAnalyst® Introductory Edition Software 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 II™ Tripod, Blaster's Ranger II™ Trigger Switch, 16 GB SDHC card for non-volatile storage of recorded video, SDHC Card Reader, USB-2 Communications Cable, Power Adapters and cables for external DC and AC operation, Blaster's Ranger II™ LT Operations Manual (English), Blaster's Ranger II™ Carry Case.

Includes MREL's 1 year Comprehensive 100% Parts and Labour Warranty.

Optional Upgrades (not included):

Blaster's Ranger II™ Memory Upgrade (Product 1-58-30): Upgrade the internal memory to 8GB thus increasing the recording time of the camera.

Blaster's Ranger II™ Built-in Solid State Drive (Products 1-58-31, 1-58-32, 1-58-34 or 1-58-35): Internal SSDs of 256 GB, 512 GB, 1 TB or 2 TB to store multiple videos directly on the camera without need of a computer.

Blaster's Ranger II™ Long Recording Time Upgrade (Product 1-58-33): Streams uncompressed video to internal Solid State Drive to provide very long recording times.

Optional Accessories (not included):

Blaster's Ranger II™ Battery and Charger (Product 1-58-50): Provides portable external 12 VDC power for long operation times.

Blaster's Ranger II™ F-Mount Adapter (Product 1-58-51): Allows use of F-Mount lenses with the Blaster's Ranger II™ High Speed Cameras.


PWT™ Portable Wireless Trigger (Product 1-51-01): To command-trigger the camera wirelessly from up to 500 m (1,640 ft.) distance.


ProAnalyst® Professional Edition (Product 1-50-03): Includes all the analysis features and engines for auto-tracking objects in 1-D and 2-D, data reduction and report generation.


ProAnalyst® 3-D Professional Edition (Product 1-50-04): 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.

ProAnalyst® Image Stabilization Toolkit (Product 1-50-05): A recommended toolkit for the ProAnalyst® Professional Editions which removes unwanted jitter and vibration from a video.

Other Lenses: A wide variety of C-Mount and F-Mount lenses to meet specific requirements - contact MREL.

1-58-08	BLASTER'S RANGER II™ LT HIGH SPEED CAMERA (1280x1024)	each	
	<p>Blaster's Ranger II™ LT Model BRIILT-IL5SC4-B: Rugged (machined aluminum), portable, colour (800 to 6400 ISO depending on selected mode), high speed video camera. Maximum recording speed = 18,644 fps. Maximum video resolution = 1280 x 1024 pixels. Maximum recording speed at maximum resolution = 921 frames per second (fps). 4GB image memory giving a recording time of 3.2 seconds at 1000 fps at resolution of 1280 x 1014 pixels. Operation from external 10-30 VDC, or 110-220 VAC. USB ports and SD ports to allow users to easily download images to thumb drives, SD cards, or portable hard drives. Includes: Blaster's Ranger II™ LT High Speed Camera, F-mount Lens Adapter (installed), 80-200mm f/2.8 F-mount Zoom Lens, ProAnalyst® Introductory Edition Software 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 II™ Tripod, Blaster's Ranger II™ Trigger Switch, 16 GB SDHC card for non-volatile storage of recorded video, SDHC Card Reader, USB-2 Communications Cable, Power Adapters and cables for external DC and AC operation, Blaster's Ranger II™ LT Operations Manual (English), Blaster's Ranger II™ Carry Case. Includes MREL's 1 year Comprehensive 100% Parts and Labour Warranty.</p> <p><u>Optional Upgrades (not included):</u></p> <p>Blaster's Ranger II™ Memory Upgrade (Product 1-58-30): Upgrade the internal memory to 8GB thus increasing the recording time of the camera.</p> <p>Blaster's Ranger II™ Built-in Solid State Drive (Products 1-58-31, 1-58-32, 1-58-34 or 1-58-35): Internal SSDs of 256 GB, 512 GB, 1 TB or 2 TB to store multiple videos directly on the camera without need of a computer.</p> <p>Blaster's Ranger II™ Long Recording Time Upgrade (Product 1-58-33): Streams uncompressed video to internal Solid State Drive to provide very long recording times.</p> <p><u>Optional Accessories (not included):</u></p> <p>Blaster's Ranger II™ Battery and Charger (Product 1-58-50): Provides portable external 12 VDC power for long operation times.</p> <p>PWT™ Portable Wireless Trigger (Product 1-51-01): To command-trigger the camera wirelessly from up to 500 m (1,640 ft.) distance.</p> <p>ProAnalyst® Professional Edition (Product 1-50-03): Includes all the analysis features and engines for auto-tracking objects in 1-D and 2-D, data reduction and report generation.</p> <p>ProAnalyst® 3-D Professional Edition (Product 1-50-04): 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>ProAnalyst® Image Stabilization Toolkit (Product 1-50-05): A recommended toolkit for the ProAnalyst® Professional Editions which removes unwanted jitter and vibration from a video.</p> <p>Other Lenses: A wide variety of C-Mount and F-Mount lenses to meet specific requirements - contact MREL.</p>		


1-58-09	BLASTER'S RANGER II™ LT HIGH SPEED CAMERA (1920x1080)	each	
	<p>Blaster's Ranger II™ LT Model BRIILT-IL5HC4-B: Rugged (machined aluminum), portable, colour (800 to 6400 ISO depending on selected mode), high speed video camera. Maximum recording speed = 18,644 fps. Maximum video resolution = 1920 x 1080 pixels. Maximum recording speed at maximum resolution = 634 frames per second (fps). 4GB image memory giving a recording time of 3.2 seconds at 1000 fps at resolution of 1280 x 1014 pixels. Operation from external 10-30 VDC, or 110-220 VAC. USB ports and SD ports to allow users to easily download images to thumb drives, SD cards, or portable hard drives. Includes: Blaster's Ranger II™ LT High Speed Camera, F-mount Lens Adapter (installed), 80-200mm f/2.8 F-mount Zoom Lens, ProAnalyst® Introductory Edition Software 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 II™ Tripod, Blaster's Ranger II™ Trigger Switch, 16 GB SDHC card for non-volatile storage of recorded video, SDHC Card Reader, USB-2 Communications Cable, Power Adapters and cables for external DC and AC operation, Blaster's Ranger II™ LT Operations Manual (English), Blaster's Ranger II™ Carry Case.</p> <p>Includes MREL's 1 year Comprehensive 100% Parts and Labour Warranty.</p> <p><u>Optional Upgrades (not included):</u></p> <p>Blaster's Ranger II™ Memory Upgrade (Product 1-58-30): Upgrade the internal memory to 8GB thus increasing the recording time of the camera.</p> <p>Blaster's Ranger II™ Built-in Solid State Drive (Products 1-58-31, 1-58-32, 1-58-34 or 1-58-35): Internal SSDs of 256 GB, 512 GB, 1 TB or 2 TB to store multiple videos directly on the camera without need of a computer.</p> <p>Blaster's Ranger II™ Long Recording Time Upgrade (Product 1-58-33): Streams uncompressed video to internal Solid State Drive to provide very long recording times.</p> <p><u>Optional Accessories (not included):</u></p> <p>Blaster's Ranger II™ Battery and Charger (Product 1-58-50): Provides portable external 12 VDC power for long operation times.</p> <p>PWT™ Portable Wireless Trigger (Product 1-51-01): To command-trigger the camera wirelessly from up to 500 m (1,640 ft.) distance.</p> <p>ProAnalyst® Professional Edition (Product 1-50-03): Includes all the analysis features and engines for auto-tracking objects in 1-D and 2-D, data reduction and report generation.</p> <p>ProAnalyst® 3-D Professional Edition (Product 1-50-04): 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>ProAnalyst® Image Stabilization Toolkit (Product 1-50-05): A recommended toolkit for the ProAnalyst® Professional Editions which removes unwanted jitter and vibration from a video.</p> <p>Other Lenses: A wide variety of C-Mount and F-Mount lenses to meet specific requirements - contact MREL.</p>		


1-58-10	BLASTER'S RANGER II™ LT HIGH SPEED CAMERA (2560x2048)	each	
	<p>Blaster's Ranger II™ LT Model BRIILT-IL5QC4-B: Rugged (machined aluminum), portable, colour (800 to 6400 ISO depending on selected mode), high speed video camera. Maximum recording speed = 18,644 fps. Maximum video resolution = 2560 x 2048 pixels. Maximum recording speed at maximum resolution = 253 frames per second (fps). 4GB image memory giving a recording time of 3.2 seconds at 1000 fps at resolution of 1280 x 1014 pixels. Operation from external 10-30 VDC, or 110-220 VAC. USB ports and SD ports to allow users to easily download images to thumb drives, SD cards, or portable hard drives. Includes: Blaster's Ranger II™ LT High Speed Camera, F-mount Lens Adapter (installed), 80-200mm f/2.8 F-mount Zoom Lens, ProAnalyst® Introductory Edition Software 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 II™ Tripod, Blaster's Ranger II™ Trigger Switch, 16 GB SDHC card for non-volatile storage of recorded video, SDHC Card Reader, USB-2 Communications Cable, Power Adapters and cables for external DC and AC operation, Blaster's Ranger II™ LT Operations Manual (English), Blaster's Ranger II™ Carry Case.</p> <p>Includes MREL's 1 year Comprehensive 100% Parts and Labour Warranty.</p> <p><u>Optional Upgrades (not included):</u></p> <p>Blaster's Ranger II™ Memory Upgrade (Product 1-58-30): Upgrade the internal memory to 8GB thus increasing the recording time of the camera.</p> <p>Blaster's Ranger II™ Built-in Solid State Drive (Products 1-58-31, 1-58-32, 1-58-34 or 1-58-35): Internal SSDs of 256 GB, 512 GB, 1 TB or 2 TB to store multiple videos directly on the camera without need of a computer.</p> <p>Blaster's Ranger II™ Long Recording Time Upgrade (Product 1-58-33): Streams uncompressed video to internal Solid State Drive to provide very long recording times.</p> <p><u>Optional Accessories (not included):</u></p> <p>Blaster's Ranger II™ Battery and Charger (Product 1-58-50): Provides portable external 12 VDC power for long operation times.</p> <p>PWT™ Portable Wireless Trigger (Product 1-51-01): To command-trigger the camera wirelessly from up to 500 m (1,640 ft.) distance.</p> <p>ProAnalyst® Professional Edition (Product 1-50-03): Includes all the analysis features and engines for auto-tracking objects in 1-D and 2-D, data reduction and report generation.</p> <p>ProAnalyst® 3-D Professional Edition (Product 1-50-04): 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>ProAnalyst® Image Stabilization Toolkit (Product 1-50-05): A recommended toolkit for the ProAnalyst® Professional Editions which removes unwanted jitter and vibration from a video.</p> <p>Other Lenses: A wide variety of C-Mount and F-Mount lenses to meet specific requirements - contact MREL.</p>		





HOW TO SELECT THIS PRODUCT:

The [Blaster's Ranger II™ High Speed Cameras](#) include a built-in LCD screen and built-in rechargeable battery. You will not require a PC to use this camera – it is standalone. Decide on the maximum resolution of the camera as shown. Consider selecting one or more of the Optional Upgrades and Accessories listed below.






1-58-11	BLASTER'S RANGER II™ HIGH SPEED CAMERA (800x600)	each	
	<p>Blaster's Ranger II™ Model BR11-TS5LC4-B: Rugged (machined aluminum), portable, colour (800 to 6400 ISO depending on selected mode), high speed video camera with built-in, ultra-bright 178 mm (7 in.) WVGA LCD viewfinder and push-button controls. Maximum recording speed = 18,644 fps. Maximum video resolution = 800 x 600 pixels. Maximum recording speed at maximum resolution = 1,667 frames per second (fps). 4GB image memory giving a recording time of 8.6 seconds at 1000 fps at maximum resolution. Operation from internal rechargeable battery (3 hrs.), external 10-30 VDC, or 110-220 VAC. USB ports and SD ports to allow users to easily download images to thumb drives, SD cards, or portable hard drives. Includes: Blaster's Ranger II™ High Speed Camera with internal rechargeable battery, 12.5-75mm f/1.2 (2/3 in. format) C-mount Zoom Lens, ProAnalyst® Introductory Edition Software 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 II™ Tripod, Blaster's Ranger II™ Trigger Switch, 16 GB SDHC card for non-volatile storage of recorded video, SDHC Card Reader, USB-2 Communications Cable, Power Adapters and cables for external DC and AC operation, Blaster's Ranger II™ Operations Manual (English), Blaster's Ranger II™ Carry Case. Includes MREL's 1 year Comprehensive 100% Parts and Labour Warranty.</p> <p><u>Optional Upgrades (not included):</u> Blaster's Ranger II™ Memory Upgrade (Product 1-58-30): Upgrade the internal memory to 8GB thus increasing the recording time of the camera. Blaster's Ranger II™ Built-in Solid State Drive (Products 1-58-31, 1-58-32, 1-58-34 or 1-58-35): Internal SSDs of 256 GB, 512 GB, 1 TB or 2 TB to store multiple videos directly on the camera without need of a computer. Blaster's Ranger II™ Long Recording Time Upgrade (Product 1-58-33): Streams uncompressed video to internal Solid State Drive to provide very long recording times.</p> <p><u>Optional Accessories (not included):</u> Blaster's Ranger II™ Battery and Charger (Product 1-58-50): Provides portable external 12 VDC power for long operation times. Blaster's Ranger II™ F-Mount Adapter (Product 1-58-51): Allows use of F-Mount lenses with the Blaster's Ranger II™ High Speed Cameras. Blaster's Ranger II™ LCD Hood (Product 1-58-52): Provides a removeable hood for velcro attachment to the Blaster's Ranger II™ High Speed Camera to reduce glare from sunlight. PWT™ Portable Wireless Trigger (Product 1-51-01): To command-trigger the camera wirelessly from up to 500 m (1,640 ft.) distance. ProAnalyst® Professional Edition (Product 1-50-03): Includes all the analysis features and engines for auto-tracking objects in 1-D and 2-D, data reduction and report generation. ProAnalyst® 3-D Professional Edition (Product 1-50-04): 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. ProAnalyst® Image Stabilization Toolkit (Product 1-50-05): A recommended toolkit for the ProAnalyst® Professional Editions which removes unwanted jitter and vibration from a video. Other Lenses: A wide variety of C-Mount and F-Mount lenses to meet specific requirements - contact MREL.</p>		






1-58-12	BLASTER'S RANGER II™ HIGH SPEED CAMERA (1280x1024)	each	
	<p>Blaster's Ranger II™ Model BR1I-TS5SC4-B: Rugged (machined aluminum), portable, colour (800 to 6400 ISO depending on selected mode), high speed video camera with built-in, ultra-bright 178 mm (7 in.) WVGA LCD viewfinder and push-button controls. Maximum recording speed = 18,644 fps. Maximum video resolution = 1280 x 1024 pixels. Maximum recording speed at maximum resolution = 921 frames per second (fps). 4GB image memory giving a recording time of 3.2 seconds at 1000 fps at resolution of 1280 x 1014 pixels. Operation from internal rechargeable battery (3 hrs.), external 10-30 VDC, or 110-220 VAC. USB ports and SD ports to allow users to easily download images to thumb drives, SD cards, or portable hard drives. Includes: Blaster's Ranger II™ High Speed Camera, F-mount Lens Adapter (installed), 80-200mm f/2.8 F-mount Zoom Lens, ProAnalyst® Introductory Edition Software 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 II™ Tripod, Blaster's Ranger II™ Trigger Switch, 16 GB SDHC card for non-volatile storage of recorded video, SDHC Card Reader, USB-2 Communications Cable, Power Adapters and cables for external DC and AC operation, Blaster's Ranger II™ Operations Manual (English), Blaster's Ranger II™ Carry Case. Includes MREL's 1 year Comprehensive 100% Parts and Labour Warranty.</p> <p><u>Optional Upgrades (not included):</u></p> <p>Blaster's Ranger II™ Memory Upgrade (Product 1-58-30): Upgrade the internal memory to 8GB thus increasing the recording time of the camera.</p> <p>Blaster's Ranger II™ Built-in Solid State Drive (Products 1-58-31, 1-58-32, 1-58-34 or 1-58-35): Internal SSDs of 256 GB, 512 GB, 1 TB or 2 TB to store multiple videos directly on the camera without need of a computer.</p> <p>Blaster's Ranger II™ Long Recording Time Upgrade (Product 1-58-33): Streams uncompressed video to internal Solid State Drive to provide very long recording times.</p> <p><u>Optional Accessories (not included):</u></p> <p>Blaster's Ranger II™ Battery and Charger (Product 1-58-50): Provides portable external 12 VDC power for long operation times.</p> <p>Blaster's Ranger II™ LCD Hood (Product 1-58-52): Provides a removeable hood for velcro attachment to the Blaster's Ranger II™ High Speed Camera to reduce glare from sunlight.</p> <p>PWT™ Portable Wireless Trigger (Product 1-51-01): To command-trigger the camera wirelessly from up to 500 m (1,640 ft.) distance.</p> <p>ProAnalyst® Professional Edition (Product 1-50-03): Includes all the analysis features and engines for auto-tracking objects in 1-D and 2-D, data reduction and report generation.</p> <p>ProAnalyst® 3-D Professional Edition (Product 1-50-04): 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>ProAnalyst® Image Stabilization Toolkit (Product 1-50-05): A recommended toolkit for the ProAnalyst® Professional Editions which removes unwanted jitter and vibration from a video.</p> <p>Other Lenses: A wide variety of C-Mount and F-Mount lenses to meet specific requirements - contact MREL.</p>		

1-58-13	BLASTER'S RANGER II™ HIGH SPEED CAMERA (1920x1080)	each	
	<p>Blaster's Ranger II™ Model BR1I-TS5HC4-B: Rugged (machined aluminum), portable, colour (800 to 6400 ISO depending on selected mode), high speed video camera with built-in, ultra-bright 178 mm (7 in.) WVGA LCD viewfinder and push-button controls. Maximum recording speed = 18,644 fps. Maximum video resolution = 1920 x 1080 pixels. Maximum recording speed at maximum resolution = 634 frames per second (fps). 4GB image memory giving a recording time of 3.2 seconds at 1000 fps at resolution of 1280 x 1014 pixels. Operation from internal rechargeable battery (3 hrs.), external 10-30 VDC, or 110-220 VAC. USB ports and SD ports to allow users to easily download images to thumb drives, SD cards, or portable hard drives. Includes: Blaster's Ranger II™ High Speed Camera, F-mount Lens Adapter (installed), 80-200mm f/2.8 F-mount Zoom Lens, ProAnalyst® Introductory Edition Software 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 II™ Tripod, Blaster's Ranger II™ Trigger Switch, 16 GB SDHC card for non-volatile storage of recorded video, SDHC Card Reader, USB-2 Communications Cable, Power Adapters and cables for external DC and AC operation, Blaster's Ranger II™ Operations Manual (English), Blaster's Ranger II™ Carry Case. Includes MREL's 1 year Comprehensive 100% Parts and Labour Warranty.</p> <p><u>Optional Upgrades (not included):</u></p> <p>Blaster's Ranger II™ Memory Upgrade (Product 1-58-30): Upgrade the internal memory to 8GB thus increasing the recording time of the camera.</p> <p>Blaster's Ranger II™ Built-in Solid State Drive (Products 1-58-31, 1-58-32, 1-58-34 or 1-58-35): Internal SSDs of 256 GB, 512 GB, 1 TB or 2 TB to store multiple videos directly on the camera without need of a computer.</p> <p>Blaster's Ranger II™ Long Recording Time Upgrade (Product 1-58-33): Streams uncompressed video to internal Solid State Drive to provide very long recording times.</p> <p><u>Optional Accessories (not included):</u></p> <p>Blaster's Ranger II™ Battery and Charger (Product 1-58-50): Provides portable external 12 VDC power for long operation times.</p> <p>Blaster's Ranger II™ LCD Hood (Product 1-58-52): Provides a removeable hood for velcro attachment to the Blaster's Ranger II™ High Speed Camera to reduce glare from sunlight.</p> <p>PWT™ Portable Wireless Trigger (Product 1-51-01): To command-trigger the camera wirelessly from up to 500 m (1,640 ft.) distance.</p> <p>ProAnalyst® Professional Edition (Product 1-50-03): Includes all the analysis features and engines for auto-tracking objects in 1-D and 2-D, data reduction and report generation.</p> <p>ProAnalyst® 3-D Professional Edition (Product 1-50-04): 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>ProAnalyst® Image Stabilization Toolkit (Product 1-50-05): A recommended toolkit for the ProAnalyst® Professional Editions which removes unwanted jitter and vibration from a video.</p> <p>Other Lenses: A wide variety of C-Mount and F-Mount lenses to meet specific requirements - contact MREL.</p>		




1-58-14	BLASTER'S RANGER II™ HIGH SPEED CAMERA (2560x2048)	each	
	<p>Blaster's Ranger II™ Model BR1I-TS5QC4-B: Rugged (machined aluminum), portable, colour (800 to 6400 ISO depending on selected mode), high speed video camera with built-in, ultra-bright 178 mm (7 in.) WVGA LCD viewfinder and push-button controls. Maximum recording speed = 18,644 fps. Maximum video resolution = 2560 x 2048 pixels. Maximum recording speed at maximum resolution = 253 frames per second (fps). 4GB image memory giving a recording time of 3.2 seconds at 1000 fps at resolution of 1280 x 1014 pixels. Operation from internal rechargeable battery (3 hrs.), external 10-30 VDC, or 110-220 VAC. USB ports and SD ports to allow users to easily download images to thumb drives, SD cards, or portable hard drives. Includes: Blaster's Ranger II™ High Speed Camera, F-mount Lens Adapter (installed), 80-200mm f/2.8 F-mount Zoom Lens, ProAnalyst® Introductory Edition Software 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 II™ Tripod, Blaster's Ranger II™ Trigger Switch, 16 GB SDHC card for non-volatile storage of recorded video, SDHC Card Reader, USB-2 Communications Cable, Power Adapters and cables for external DC and AC operation, Blaster's Ranger II™ Operations Manual (English), Blaster's Ranger II™ Carry Case. Includes MREL's 1 year Comprehensive 100% Parts and Labour Warranty.</p> <p><u>Optional Upgrades (not included):</u></p> <p>Blaster's Ranger II™ Memory Upgrade (Product 1-58-30): Upgrade the internal memory to 8GB thus increasing the recording time of the camera.</p> <p>Blaster's Ranger II™ Built-in Solid State Drive (Products 1-58-31, 1-58-32, 1-58-34 or 1-58-35): Internal SSDs of 256 GB, 512 GB, 1 TB or 2 TB to store multiple videos directly on the camera without need of a computer.</p> <p>Blaster's Ranger II™ Long Recording Time Upgrade (Product 1-58-33): Streams uncompressed video to internal Solid State Drive to provide very long recording times.</p> <p><u>Optional Accessories (not included):</u></p> <p>Blaster's Ranger II™ Battery and Charger (Product 1-58-50): Provides portable external 12 VDC power for long operation times.</p> <p>Blaster's Ranger II™ LCD Hood (Product 1-58-52): Provides a removeable hood for velcro attachment to the Blaster's Ranger II™ High Speed Camera to reduce glare from sunlight.</p> <p>PWT™ Portable Wireless Trigger (Product 1-51-01): To command-trigger the camera wirelessly from up to 500 m (1,640 ft.) distance.</p> <p>ProAnalyst® Professional Edition (Product 1-50-03): Includes all the analysis features and engines for auto-tracking objects in 1-D and 2-D, data reduction and report generation.</p> <p>ProAnalyst® 3-D Professional Edition (Product 1-50-04): 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>ProAnalyst® Image Stabilization Toolkit (Product 1-50-05): A recommended toolkit for the ProAnalyst® Professional Editions which removes unwanted jitter and vibration from a video.</p> <p>Other Lenses: A wide variety of C-Mount and F-Mount lenses to meet specific requirements - contact MREL.</p>		

BLASTER'S RANGER II™ HIGH SPEED CAMERA OPTIONAL UPGRADES AND ACCESSORIES






1-58-30	BLASTER'S RANGER II™ MEMORY UPGRADE (4GB TO 8GB)	each	
<p>Increases the image memory of Blaster's Ranger II™ models from 4GB to 8GB to increase recording time. Can be factory installed in Products 1-58-07 through 1-58-14.</p>			
			
1-58-31	BLASTER'S RANGER II™ BUILT IN SOLID STATE DRIVE (256 GB)	each	
<p>Optional built-in SSD (solid state drive) provides 256 GB of non-volatile internal storage. Shoot all day long without having to download to a computer. Can be factory installed in Products 1-58-07 through 1-58-14. Other memory sizes are available.</p>			
			
1-58-32	BLASTER'S RANGER II™ BUILT IN SOLID STATE DRIVE (512 GB)	each	
<p>Optional built-in SSD (solid state drive) provides 512 GB of non-volatile internal storage. Shoot all day long without having to download to a computer. Can be factory installed in Products 1-58-07 through 1-58-14. Other memory sizes are available.</p>			
			
1-58-34	BLASTER'S RANGER II™ BUILT IN SOLID STATE DRIVE (1 TB)	each	
<p>Optional built-in SSD (solid state drive) provides 1 TB of non-volatile internal storage. Shoot all day long without having to download to a computer. Can be factory installed in Products 1-58-07 through 1-58-14. Other memory sizes are available.</p>			
			
1-58-35	BLASTER'S RANGER II™ BUILT IN SOLID STATE DRIVE (2 TB)	each	
<p>Optional built-in SSD (solid state drive) provides 2 TB of non-volatile internal storage. Shoot all day long without having to download to a computer. Can be factory installed in Products 1-58-07 through 1-58-14. Other memory sizes are available.</p>			
			

1-58-33	BLASTER'S RANGER II™ LONG RECORDING TIME UPGRADE	each	
<p>Optional upgrade to allow Blaster's Ranger II™ High Speed Cameras to have an extra long recording time. Example 34.6 minutes recording time combinations: 34.6 minutes recording time at 520 fps at 1280 x 720 pixels. 34.6 minutes recording time at 993 fps at 800 x 600 pixels. Includes memory upgrade to 8GB (Product 1-58-30), installation of 1 TB SSD (type SATA III) (Product 1-58-34), provision of enhanced camera control software and required hardware and firmware upgrades. Includes 11.1 V Battery Pack, 8.8 Ah, which will support camera operations more than 2x as long as the internal battery. Includes MREL's 1 year Comprehensive 100% Parts and Labour Warranty.</p> 			
1-58-50	BLASTER'S RANGER II™ BATTERY AND CHARGER	each	
<p>Provides portable 12 VDC power for operating the Blaster's Ranger II™ High Speed Camera at locations that do not have AC mains power. Consists of one sealed, lead acid rechargeable battery (12 VDC, 12AH), one universal (100-240 VAC) battery charger (12 VDC, 0.8A). Connect directly to the Blaster's Ranger II™ High Speed Camera. Suitable for use with Products 1-58-07 through 1-58-14.</p> 			
1-58-51	BLASTER'S RANGER II™ F-MOUNT ADAPTER	each	
<p>Allows use of F-Mount lenses with the Blaster's Ranger II™ High Speed Cameras. Includes MREL's 1 year Comprehensive 100% Parts and Labour Warranty. Suitable for use with Products 1-58-07 and 1-58-11.</p> 			
1-58-52	BLASTER'S RANGER II™ LCD HOOD	each	
<p>Provides a removable hood for Velcro attachment to the Blaster's Ranger II™ High Speed Camera to reduce glare from sunlight. Velcro and hood provided. Suitable for use with Products 1-58-11 through 1-58-14.</p> 			
LENSES	HIGH SPEED C-MOUNT AND F-MOUNT LENSES	each	
<p>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.</p> 			



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>		



<p>1-50-03</p>	<p>PROANALYST® PROFESSIONAL EDITION SOFTWARE (1 LICENSE)</p>	<p>each</p>	
 	<p>ProAnalyst® is the world's premier software package for automatically measuring moving objects with video. ProAnalyst® 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® is the ideal companion software to any high speed video camera. This ProAnalyst® Professional Edition Software package is the industry-standard. Includes all the analysis features and engines for auto-tracking objects in 1-D and 2-D, data reduction and report generation. Optional toolkits add particle tracking, contour tracing, and image stabilization.</p>		
<p>1-50-04</p>	<p>PROANALYST® 3-D PROFESSIONAL EDITION SOFTWARE (1 LICENSE)</p>	<p>each</p>	
 	<p>ProAnalyst® is the world's premier software package for automatically measuring moving objects with video. ProAnalyst® 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® is the ideal companion software to any high speed video camera. ProAnalyst® Professional Edition is the industry-standard. Includes all the analysis features and engines for auto-tracking objects in 1-D and 2-D, data reduction and report generation. This ProAnalyst® 3-D Professional Edition Software package is the ultimately flexible motion analysis software package. It includes all the features of the Professional Edition, plus the innovative and simple-to-use 3-D Manager. Analyze events captured by multiple cameras to reconstruct and display motion in 3-D with high precision and accuracy.</p> <p>Optional Versions (not included):</p> <p>3-D FLIGHT PATH: Using two fixed camera views, analyze and reconstruct the 3-D motion of projectiles and bullets, including pitch, yaw, relative position and deviation from a desired flight line. Ideal for ballistics engineers and military range environments. Contact MREL for more information.</p> <p>3-D TRACKER: Using two cameras and two flight trackers, measure and reconstruct 3-D motion of projectiles and rockets over a long distance, measures motion of multiple objects including sabot and ordnance separations over 100 m (328 ft.) or more using high speed cameras. Contact MREL for more information.</p>		
<p>1-50-05</p>	<p>PROANALYST® IMAGE STABILIZATION TOOLKIT</p>	<p>each</p>	
	<p>A recommended toolkit for the ProAnalyst® Professional Editions (Products 1-50-03 and 1-50-04) which removes unwanted jitter and vibration from a video. Simply select features within the image to stabilize upon and ProAnalyst® will create a new, stabilized video for later analysis. Great for vibration environments, hand-held jitter, airborne testing, frequency analysis and more.</p>		

ADDITIONAL INFORMATION:

More information on MREL's Blaster's Ranger II™ LT High Speed Camera, Blaster's Ranger II™ High Speed Camera, PWT™ Portable Wireless Trigger and ProAnalyst® Software is available online at www.mrel.com.

All prices are 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

**1555 Sydenham Road
Kingston, Ontario K7L 4V4
Canada**

T: +1.613.545.0466 F: +1.613.542.8029 E: sales@mrel.com

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