DART

HELICOPTER SERVICES

SEARCHLIGHTS

2009

ACCESSORIES CATALOG

Jeff Shapiro
President/CEO

DART Helicopter Services:
We Engineer Solutions

This 2009 catalog is our biggest ever – with more than 1,000 new solutions engineered to help meet your operational challenges.

There has never been a better time to be part of the most exciting industry in the world. Presented with extraordinary opportunities for growth and expansion, DART has strategically focused only on those that support our core mission — providing you with helicopter accessories that make your operation safer, more efficient, and more profitable. Some of these include:

• The acquisition of Canam Aerospace and Cargo Net Innovations. This expands our portfolio of long line cargo hooks, bag automated transporters, primary hooks, carousels, long line nubbins, swivels, shock absorbers, logging grapples, synthetic long lines, and cargo nets for a variety of helicopter models.

• Agreements to distribute a range of new products from AKV Inc., Red Barn Machine, and Spectrolab. Their respective products include turbine engine cycle counters, standard and custom tools for engine overhaul and repair, and searchlights, including the popular Nightsun® series.

• Agreements to distribute special ops equipment and ground support dollies for Tyler and Mainline.

• Establishment of a new warehouse/distribution center for helicopter accessories in Hong Kong.

This year's catalog includes more than 2,500 individual parts and accessories for your helicopters. That's a growth of more than 1,000 products since our last catalog was issued. As you review the product listings for your helicopter model, please note the special designations for MME or "Maintenance Made Easy" products. These accessories will streamline your maintenance efforts, so they are definitely worth a look.

What's ahead for 2009? More of the same. Great products. Great Service. Strategic Growth. All focused on you and your operational requirements.

My team and I appreciate your business and your support.

DART Helicopter Services, LLC
P.O. Box 430, Piney Flats, TN 37686

Sales Office
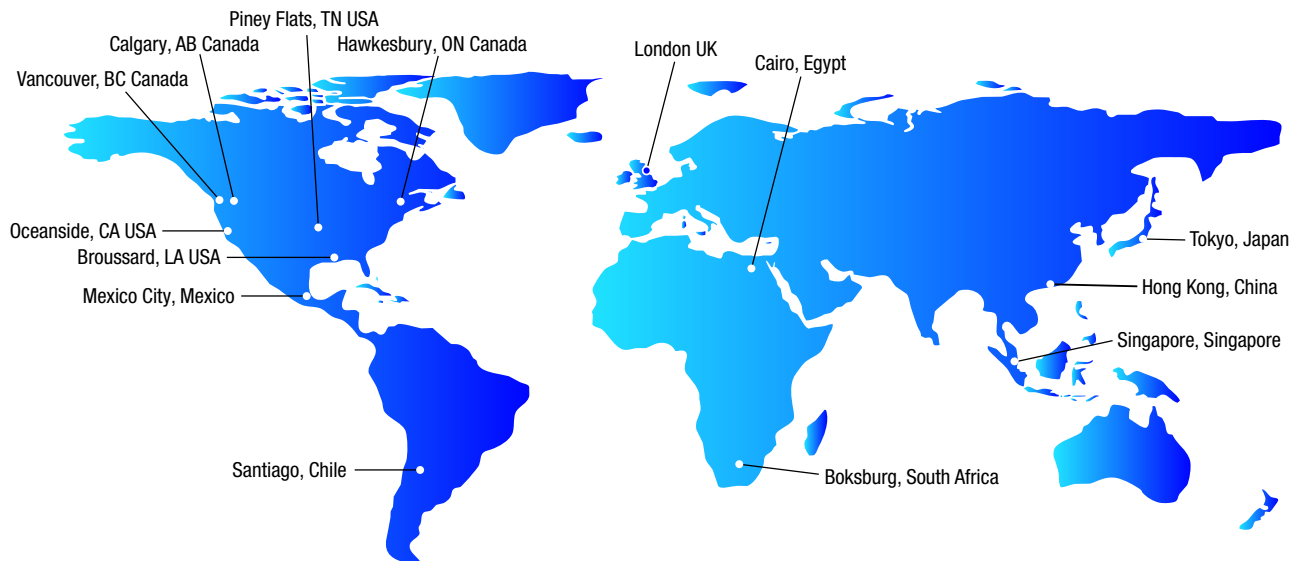352 Main Street West
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Cairo, Egypt
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Singapore, Singapore
Santiago, Chile
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OUR TEAM HAS OVER 150 YEARS OF INDUSTRY EXPERIENCE

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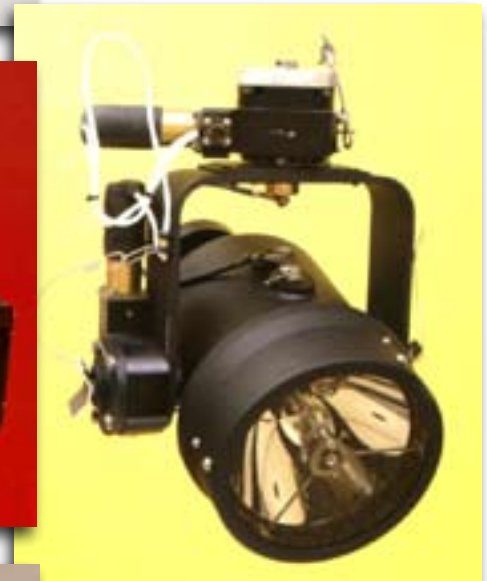Marketing Support

Searchlights

SEARCHLIGHTS

New and featured Searchlights, Integration, and Installation equipment from Spectrolab

Nightsun® XP Searchlight

Spectrolab's newest addition incorporates a built-in digital platform, combined with the characteristics that have made Nightsun® Searchlights legendary. The Nightsun® XP aerodynamic design, resigned software, and enhanced components promote improved performance. The Nightsun® XP is utilized worldwide in applications such as: Law Enforcement, Search & Rescue, Emergency Medical, Military, Border Patrol, Fire Fighting, and News Gathering.

Nightsun® XP provides direct linking capabilities with all thermal imaging and video camera systems.

A complete Nightsun® XP Searchlight System includes: Searchlight/ Gimbal, Junction Box, Hand Controller, and Installation Cable Kit.

Estimated System Weight: 60-75 lbs.
(Weight varies based on Installation Cable lengths)

Illumination Characteristics:
Lamp Type: 1600 Watt Xenon Short Arc
Peak Beam Intensity: 30-40 Million Candlepower
Beam Width: 4° (narrow); 20° (wide)

NIGHTSUN® XP SEARCHLIGHT				
Part Number	**Product Description**		**Kit Weight**	**Installation Time**
033338 *	Nightsun® XP Searchlight/Gimbal		Contact Tech Support	Contact Tech Support
033340	Quick Change Junction Box		Contact Tech Support	Contact Tech Support
032788 *	Hand Controller (Digital)		Contact Tech Support	Contact Tech Support
TBD	Installation Cable Kit		Contact Tech Support	Contact Tech Support
033002 *	Sidecar Controller (Optional)		Contact Tech Support	Contact Tech Support
033026 *	Input/Output (I/O) Kit (Optional)		Contact Tech Support	Contact Tech Support
033063	Translator Kit (Optional)		Contact Tech Support	Contact Tech Support
Part Number	**Product Description**	**Special Comments**	**Aircraft Model**	**Price (USD)**
033338 *	Nightsun® XP Searchlight/Gimbal	Gimbal Diameter: 12.2" Max. Height (Lookdown): 24.4" Min. Height (Horizontal): 19.7"	All Aircraft	Contact Sales
033340	Quick Change Junction Box	(6"W x 7"L x 5"D)	All Aircraft	Contact Sales
032788 *	Hand Controller (Digital)	(4"W x 9"L x 4"D) Part number software specific	All Aircraft	Contact Sales
TBD	Installation Cable Kit	(Standard and Custom Cable lengths available)	All Aircraft	Contact Sales
033002 *	Sidecar Controller	Smaller version of Hand Controller and can be secured to most Imaging System Hand Controllers (Requires I/O Kit)	All Aircraft	Contact Sales
033026 *	Input/Output (I/O) Kit	Offers dual control capability	All Aircraft	Contact Sales
033063	Translator Kit	Required to enable link communication to non-RS422 imaging systems	All Aircraft	Contact Sales

NOTE: (*) Various component configurations available, based on installation requirements/specifications.

Nightsun®

Nightsun® XP IFCO Searchlight

Spectrolab's newest addition incorporates a built-in digital platform, combined with the characteristics that have made Nightsun® Searchlights legendary. The Nightsun® XP IFCO aerodynamic design, resigned software, and enhanced components promote improved performance. The In-Flight ChangeOver filter offers white light to filtered light, dependent on mission and operation requirements. The Nightsun® XP IFCO is utilized worldwide in applications such as: Law Enforcement, Search & Rescue, Emergency Medical, Military, Border Patrol, Fire Fighting, and News Gathering.

Nightsun® XP IFCO provides direct linking capabilities with all thermal imaging and video camera systems.

A complete Nightsun® XP IFCO Searchlight System includes: Searchlight/Gimbal, Junction Box, Hand Controller, and Installation Cable Kit.

Estimated System Weight: 75-90 lbs.
(Weight varies based on Installation Cable lengths)

Illumination Characteristics:
Lamp Type: 1600 Watt Xenon Short Arc
Peak Beam Intensity: 30-40 Million Candlepower
Beam Width: 4° (narrow); 20° (wide)

NIGHTSUN® XP IFCO SEARCHLIGHT			
Part Number	**Product Description**	**Kit Weight**	**Installation Time**
033704	Nightsun® XP IFCO Searchlight/Gimbal	Contact Tech Support	Contact Tech Support
033340	Quick Change Junction Box	Contact Tech Support	Contact Tech Support
032788 *	Hand Controller (Digital)	Contact Tech Support	Contact Tech Support
TBD	Installation Cable Kit	Contact Tech Support	Contact Tech Support
033002 *	Sidecar Controller (Optional)	Contact Tech Support	Contact Tech Support
033026 *	Input/Output (I/O) Kit (Optional)	Contact Tech Support	Contact Tech Support
033063	Translator Kit (Optional)	Contact Tech Support	Contact Tech Support
Part Number	**Product Description**	**Special Comments**	**Aircraft Model**	**Price (USD)**
033704	Nightsun® XP IFCO Searchlight/Gimbal	Gimbal Diameter: 12.2" Max. Height (Lookdown): 30.15" Min. Height (Horizontal): 21.11"	All Aircraft	Contact Sales
033340	Quick Change Junction Box	(6"W x 7"L x 5"D)	All Aircraft	Contact Sales
032788 *	Hand Controller (Digital)	(4"W x 9"L x 4"D) Part number software specific	All Aircraft	Contact Sales
TBD	Installation Cable Kit	(Standard and Custom Cable lengths available)	All Aircraft	Contact Sales
033002 *	Sidecar Controller	Smaller version of Hand Controller and can be secured to most Imaging System Hand Controllers (Requires I/O Kit)	All Aircraft	Contact Sales
033026 *	Input/Output (I/O) Kit	Offers dual control capability	All Aircraft	Contact Sales
033063	Translator Kit	Required to enable link communication to non-RS422 imaging systems	All Aircraft	Contact Sales

NOTE: (*) Various component configurations available, based on installation requirements/specifications.

EXPORT LICENSE required for purchase of this product.

SX-16 Nightsun® IFCO Searchlight

The benchmark in high-intensity Searchlights is the SX-16 Nightsun®. The SX-16 has been a premier airborne light source in the industry for over 35 years. The SX-16 Nightsun® IFCO is utilized worldwide in applications such as: Law Enforcement, Search & Rescue, Emergency Medical, Military, Border Patrol, Fire Fighting, and News Gathering. The In-Flight ChangeOver filter offers white light to filtered light, dependent on mission and operation requirements.

New Searchlight enhancements such as a Hobbs Meter, Brushless Fan, and circuitry to enable Bi-Directional Focus are currently available for the SX-16 Nightsun® IFCO.

The SX-16 Nightsun® IFCO offers linking capabilities to all thermal imaging and video camera systems by incorporating the SpectroLink Integration System.

A complete SX-16 Nightsun® IFCO Searchlight System includes: Searchlight, Gimbal, Junction Box, Control Box, and Installation Cable Kit.

Estimated System Weight: 58-78 lbs.
(Weight varies based on Installation Cable lengths))

Illumination Characteristics:
Lamp Type: 1600 Watt Xenon Short Arc
Peak Beam Intensity: 30-40 Million Candlepower
Beam Width: 4° (narrow); 20° (wide)

SX-16 NIGHTSUN® IFCO SEARCHLIGHT			
Part Number	**Product Description**	**Kit Weight**	**Installation Time**
025000-131	SX-16 Nightsun® IFCO Searchlight	Contact Tech Support	Contact Tech Support
025000-231	SX-16 Nightsun® IFCO Searchlight Enhanced	Contact Tech Support	Contact Tech Support
019059-111 *	SX-16 Gimbal (IFCO)	Contact Tech Support	Contact Tech Support
032430	SX-16 Quick Change Junction Box	Contact Tech Support	Contact Tech Support
032430-1	SX-16 Quick Change Junction Box w/ Cooling Fan	Contact Tech Support	Contact Tech Support
030620-11	SX-16 Control Box (IFCO)	Contact Tech Support	Contact Tech Support
030620-23	SX-16 Control Box w/ Bi-Directional Focus (IFCO)	Contact Tech Support	Contact Tech Support
TBD	Installation Cable Kit	Contact Tech Support	Contact Tech Support

Part Number	Product Description	Special Comments	Aircraft Model	Price (USD)
025000-131	SX-16 Nightsun® IFCO Searchlight	(In-Flight ChangeOver Filter) (Cylindrical 11" x 18" Long) (Filter Closed 20.6"; Filter Open 19.5") Model requires Export License	All Aircraft	Contact Sales
025000-231	SX-16 Nightsun® IFCO Searchlight	(In-Flight ChangeOver Filter) Enhanced with Hobbs Meter, Brushless Fan and circuitry to enable Bi-Directional Focus. Compatible w/ # 030620-23 + (Cylindrical 11" x 18" Long) (Filter Closed 20.6"; Filter Open 19.5") Model requires Export License	All Aircraft	Contact Sales
019059-111 *	SX-16 Gimbal (IFCO)	(Aluminum/High-Speed Motor = 18° p/second) Max. Airspeed = 162 kts. Weight = 9lbs. Model requires Export License	All Aircraft	Contact Sales
032430	SX-16 Quick Change Junction Box	(6"W x 8.6"L x 5.2"H) Select one Junction Box per system.	All Aircraft	Contact Sales
032430-1	SX-16 Quick Change Junction Box w/ Cooling Fan	(6"W x 8.6"L x 5.2"H) Select one Junction Box per system.	All Aircraft	Contact Sales
030620-11	SX-16 Control Box (IFCO)	(2.25"W x 5"L x 1.75"H) Model requires Export License	All Aircraft	Contact Sales
030620-23	SX-16 Control Box w/ Bi-Directional Focus (IFCO)	Compatible w/ #025000-231 + (2.25"W x 5"L x 1.75"H) Model requires Export License	All Aircraft	Contact Sales
TBD	Installation Cable Kit	(Standard and Custom Cable lengths available based on aircraft and installation specifications)	All Aircraft	Contact Sales

NOTE: (*) Various component configurations available, based on installation requirements/specifications.

EXPORT LICENSE required for purchase of this product.

Nightsun®

SX-16 Nightsun® Searchlight

The benchmark in high-intensity Searchlights is the SX-16 Nightsun®. The SX-16 has been a premier airborne light source in the industry for over 35 years. The SX-16 Nightsun® is utilized worldwide in applications such as: Law Enforcement, Search & Rescue, Emergency Medical, Military, Border Patrol, Fire Fighting, and News Gathering.

New Searchlight enhancements such as a Hobbs Meter, Brushless Fan, and circuitry to enable Bi-Directional Focus are currently available for the SX-16 Nightsun®.

The SX-16 Nightsun® offers linking capabilities to all thermal imaging and video camera systems by including the SpectroLink Integration System.

A complete SX-16 Nightsun® Searchlight System includes: Searchlight, Gimbal, Junction Box, Control Box, and Installation Cable Kit.

Estimated System Weight: 55-70 lbs.
(Weight varies based on Installation Cable lengths))

Illumination Characteristics:
Lamp Type: 1600 Watt Xenon Short Arc
Peak Beam Intensity: 30-40 Million Candlepower
Beam Width: 4° (narrow); 20° (wide)

SX-16 NIGHTSUN® SEARCHLIGHT			
Part Number	**Product Description**	**Kit Weight**	**Installation Time**
017500-111 *	SX-16 Nightsun® Searchlight	Contact Tech Support	Contact Tech Support
017500-211	SX-16 Nightsun® Searchlight Enhanced	Contact Tech Support	Contact Tech Support
019059-110 *	SX-16 Gimbal	Contact Tech Support	Contact Tech Support
032430	SX-16 Quick Change Junction Box	Contact Tech Support	Contact Tech Support
032430-1	SX-16 Quick Change Junction Box w/ Cooling Fan	Contact Tech Support	Contact Tech Support
030039 *	SX-16 Control Box	Contact Tech Support	Contact Tech Support
030039-23 +	SX-16 Control Box w/ Bi-Directional Focus	Contact Tech Support	Contact Tech Support
TBD	Installation Cable Kit	Contact Tech Support	Contact Tech Support

Part Number	**Product Description**	**Special Comments**	**Aircraft Model**	**Price (USD)**
017500-111 *	SX-16 Nightsun® Searchlight	(White Light) (Cylindrical 11" x 18" Long) Select one Searchlight component per system.	All Aircraft	Contact Sales
017500-211	SX-16 Nightsun® Searchlight Enhanced	(White Light) Enhanced with Hobbs Meter, Brushless Fan and circuitry to enable Bi-Directional Focus. Compatible w/ #030039-23 (Cylindrical 11" x 18" Long) Select one Searchlight component per system.	All Aircraft	Contact Sales
019059-110 *	SX-16 Gimbal	(Aluminum/High-Speed Motor = 18° p/second) Max. Airspeed = 168 kts. Weight = 9lbs.	All Aircraft	Contact Sales
032430	SX-16 Quick Change Junction Box	(6"W x 8.6"L x 5.2"H) Select one Junction Box per system.	All Aircraft	Contact Sales
032430-1	SX-16 Quick Change Junction Box w/ Cooling Fan	(6"W x 8.6"L x 5.2"H) Select one Junction Box per system.	All Aircraft	Contact Sales
030039	SX-16 Control Box	(2.25"W x 5"L x 1.75"H) Select one Control Box per system.	All Aircraft	Contact Sales
030039-23	SX-16 Control Box w/ Bi-Directional Focus	Compatible w/ #017500-211 (2.25"W x 5"L x 1.75"H) Select one Control Box per system.	All Aircraft	Contact Sales
TBD	Installation Cable Kit	(Standard and Custom Cable lengths available based on aircraft and installation specifications)	All Aircraft	Contact Sales

NOTE: (*) Various component configurations available, based on installation requirements/specifications.

SX-5 Starburst Searchlight

The SX-5 Starburst Searchlight encompasses the same versatility and technology as the SX-16 Nightsun®. The SX-5 Starburst is selected based on mission specifications for applications such as: Law Enforcement, Search & Rescue, Emergency Medical, Military, Border Patrol, Fire Fighting, and News Gathering.

The SX-5 Starburst offers linking capabilities to all thermal imaging and video camera systems by including the SpectroLink Integration System.

A complete SX-5 Starburst Searchlight System includes: Searchlight, Gimbal, Junction Box, Control Box, and Installation Cable Kit.

Estimated System Weight: 30-45 lbs.
(Weight varies based on Installation Cable lengths)

Illumination Characteristics:
Lamp Type: 500 Watt Xenon Short Arc
Peak Beam Intensity: 15-20 Million Candlepower
Beam Width: 2° (narrow); 10° (wide)

SX-5 STARBURST SEARCHLIGHT				
Part Number	**Product Description**		**Kit Weight**	**Installation Time**
024711-31 *	SX-5 Starburst Searchlight		Contact Tech Support	Contact Tech Support
030040-121 *	SX-5 Gimbal		Contact Tech Support	Contact Tech Support
032347	SX-5 Junction Box		Contact Tech Support	Contact Tech Support
030039	SX-5 Control Box		Contact Tech Support	Contact Tech Support
TBD	Installation Cable Kit		Contact Tech Support	Contact Tech Support
Part Number	**Product Description**	**Special Comments**	**Aircraft Model**	**Price (USD)**
024711-31 *	SX-5 Starburst Searchlight	(Cylindrical 7.5" x 11.25" Long)	All Aircraft	Contact Sales
030040-121 *	SX-5 Gimbal	(Aluminum/High-Speed Motor = 18° p/second) Max. Airspeed = 168 kts. Weight = 8.5 lbs	All Aircraft	Contact Sales
032347	SX-5 Junction Box	(6"W x 8.6"L x 5.2"H)	All Aircraft	Contact Sales
030039	SX-5 Control Box	(2.25"W x 5"L x 1.75"H)	All Aircraft	Contact Sales
TBD	Installation Cable Kit	(Standard and Custom Cable lengths available based on aircraft and installation specifications)	All Aircraft	Contact Sales

NOTE: (*) Various component configurations available, based on installation requirements/specifications.

Integration System

SpectroLink Integration System

SpectroLink is an integrated digital linking system. SpectroLink utilizes digital encoders for precise positioning of the Searchlight to link with the Thermal Imager and/or Video Camera System. This eliminates the need for after-market modifications to any Searchlight components and does not depend on analog signals that can drift with time and temperature. SpectroLink is available for all new and existing SX-16 Nightsun®; SX-16 Nightsun® IFCO; and SX-5 Starburst Searchlight Systems.

A complete Searchlight System with SpectroLink includes: Searchlight, SpectroLink Gimbal, Junction Box, SpectroLink Control Box, SpectroLink Integration Box, and Installation Cable Kit.

Estimated System Weight: 30-75 lbs.
(Weight varies based on selected Searchlight System and Installation Cable lengths)

SPECTROLINK INTEGRATION SYSTEM			
Part Number	**Product Description**	**Kit Weight**	**Installation Time**
TBD	SX-16 Nightsun®; SX-16 Nightsun® IFCO; and/or SX-5 Starburst Searchlight System (Select one Searchlight component per system)	Contact Tech Support	Contact Tech Support
TBD	SX-16 SpectroLink Gimbal; SX-16 SpectroLink Gimbal (IFCO); SX-5 SpectroLink Gimbal (Select one Gimbal per Searchlight system)	Contact Tech Support	Contact Tech Support
032430	SX-16 Quick Change Junction Box	Contact Tech Support	Contact Tech Support
032347	SX-5 Quick Change Junction Box	Contact Tech Support	Contact Tech Support
030039-1	SpectroLink Control Box	Contact Tech Support	Contact Tech Support
030620-12	SpectroLink Control Box (IFCO)	Contact Tech Support	Contact Tech Support
030039-22	SpectroLink SX-16 Control Box w/Bi-Directional Focus	Contact Tech Support	Contact Tech Support
030620-22	SpectroLink SX-16 Control Box w/Bi-Directional Focus (IFCO)	Contact Tech Support	Contact Tech Support
033537	SpectroLink Integration Box	Contact Tech Support	Contact Tech Support
TBD	Installation Cable Kit	Contact Tech Support	Contact Tech Support
Part Number	**Product Description**	**Special Comments**	**Aircraft Model**	**Price (USD)**
TBD	SX-16 Nightsun®; SX-16 Nightsun® IFCO; and/or SX-5 Starburst Searchlight System	(Select one Searchlight component per system)	All Aircraft	Contact Sales
TBD	SX-16 SpectroLink Gimbal SX-16 SpectroLink Gimbal (IFCO) SX-5 SpectroLink Gimbal	(Select one Gimbal per Searchlight system)	All Aircraft	Contact Sales
032430	SX-16 Quick Change Junction Box	(6"W x 8.6"L x 5.2"H)	All Aircraft	Contact Sales
032347	SX-5 Quick Change Junction Box	(6"W x 8.6"L x 5.2"H)	All Aircraft	Contact Sales
030039-1	SpectroLink Control Box	(White Light) (2.25"W x 5.25"L x 1.75"H)	All Aircraft	Contact Sales
030620-12	SpectroLink Control Box (IFCO)	(2.25"W x 5.25"L x 1.75"H) Model requires Export License	All Aircraft	Contact Sales
030039-22	SpectroLink SX-16 Control Box w/Bi-Directional Focus	(White Light) Compatible w/ #017500-211 (2.25"W x 5"L x 1.75"H)	All Aircraft	Contact Sales
030620-22	SpectroLink SX-16 Control Box w/ Bi-Directional Focus (IFCO)	Compatible w/ #025000-231 + (2.25"W x 5"L x 1.75"H) Model requires Export License	All Aircraft	Contact Sales
033537	SpectroLink Integration Box		All Aircraft	Contact Sales
TBD	Installation Cable Kit	(Standard and Custom Cable lengths available based on aircraft and installation specifications)	All Aircraft	Contact Sales

NOTE: White Light and IFCO Searchlight components are not interchangeable.

EXPORT LICENSE required for purchase of (IFCO) components.

DART Helicopter Services, LLC

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Prices shown in the catalog are in US dollars and are subject to change without notice.
For more information on DART Helicopter Services and the most current pricing and product updates,
please visit our website:

www.darthelicopterservices.com

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HELICOPTER SERVICES

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