High-Performance HD Thermal Imaging Cameras

AIRS
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- State of the art "HOT" high operating temperature cryo IRFPAs
- HD and large format; high resolution
- OEM cameras - customizable to your needs
- Long life linear coolers
- Onboard video processing
- Low size, weight and power (SWAP)

BostonElectronics

www.boselec.com | boselec@boselec.com | shop.boselec.com | 617.566.3821

American Infrared Solution's Mission

American Infrared Solutions (AIRS) was formed in 2011 by several proven leaders from the EO/IR industry to address the unique needs of demanding military and scientific customers. We are passionate about creating solutions for the most challenging applications, and we have a deep respect for our clients.

Our expertise in IDCA integration and optical system design, coupled with the freedom to source the optimal mix of components for your application makes us the ideal partner.

Our team has over 150 years of combined experience in infrared imaging with veterans of many of the leading companies in advanced imaging including General Dynamics, FLIR, GE Aerospace, ICX and UTC. We have extensive experience in defense program partnering, scientific systems and industrial applications.

Located in Hudson New Hampshire, in the heart of the United States infrared technology belt, our facility offers full assembly, service, and testing capability for IDCAs, electronics and optical systems.

As a merchant supplier to leading defense and scientific companies, we appreciate the proprietary nature of your development and operate with full discretion and propriety. We encourage interested parties to reach out by phone and talk with our engineering team to learn more.

AIRS
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AIRS Nucleus™ MWIR Camera

BostonElectronics

1280 x 1024 Nucleus Mid Wave Infrared Camera

- High resolution, high sensitivity, and low noise infrared camera is well suited to demanding defense and scientific applications.
- AIRS Nucleus™ MWIR Camera design is light weight and low power enabling both portable field use and easy system integration.
- Available with or without a handle in a rugged aluminum chassis.
- Bayonet mount enables easy lens swapping between various lens focal lengths.
- Nyx Connect™ software simplifies set-up and control of critical sensor settings and digital video through a reliable Camera Link or USB3 Vision connection.
- On board video processing enables corrected video output with custom non-uniformity tables and user applied pixel maps for maximum performance.

AIRS Nucleus™ MWIR Camera

Nyx Nucleus™ MWIR Camera	
Sensor	
Type	HOT MWIR
Response	3-5µm
Resolution	1280 x 1024
NEdT	<25mk
Pixel Pitch	12µm
Electronics	
Frame Rate	60Hz
Integration Time	100µs to 98% full frame
Integration Type	Integrate-While-Read
A/D Resolution	16-bit
Video Output	Camera Link Base or USB3 Vision
Communication	RS-232 Serial over Camera Link or USB3 Vision
Optics	
Cold Filter	3.0µm cut-on
Lens Type	25, 50, 100mm, other options
F Number	f/2.5
Lens Mounting	Bayonet
Lens MTF Data	Available on request
Mechanical	
Size Without Lens	L x W x H (6 x 3.5 x 4 in)
Weight Without Lens	Approximately 4 lbs.
Cool Down Time	6 minutes typical
Cooler Type	Linear cooler
MTTF	>15,000 hours
Camera Mount	1/4"-20 standard tripod
Environmental	
Operating Temp	-20°C to + 50°C
Storage Temp	-50°C to + 70°C
Electrical	
Input Voltage	16V
Steady State Power	22W @ 23°C Typical
Max Power	30W
Control	

Nyx Connect™ software simplifies set-up and control of critical sensor settings and digital video through a reliable Camera Link or USB3 Vision connection.
See our video options data sheet.

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1 Wall St. Hudson NH, 03051 (662) 626-2477

Nyx

AIRS Nucleus™ LWIR Camera

BostonElectronics

1280 x 1024 Nucleus Long Wave Infrared Camera

- High resolution, high sensitivity, and low noise infrared camera is well suited to demanding defense and scientific applications.
- AIRS Nucleus™ LWIR Camera design is light weight and low power enabling both portable field use and easy system integration.
- Available with or without a handle in a rugged aluminum chassis.
- Bayonet mount enables easy lens swapping between various lens focal lengths.
- Nyx Connect™ software simplifies set-up and control of critical sensor settings and digital video through a reliable Camera Link or USB3 Vision connection.
- On board video processing enables corrected video output with custom non-uniformity tables and user applied pixel maps for maximum performance.

AIRS Nucleus™ LWIR Camera

Nyx Nucleus™ LWIR Camera	
Sensor	
Type	SLS
Response	7.5-12µm
Resolution	1280 x 1024
NEdT	<30mk
Pixel Pitch	12µm
Electronics	
Frame Rate	60Hz
Integration Time	100µs to 98% full frame
Integration Type	Integrate-While-Read
A/D Resolution	16-bit
Video Output	Camera Link Base or USB3 Vision
Communication	RS-232 Serial over Camera Link or USB3 Vision
Optics	
Cold Filter	7.5µm cut-on
Lens Type	25, 50, 100mm, other options
F Number	f/2.0
Lens Mounting	Bayonet
Lens MTF Data	Available on request
Mechanical	
Size Without Lens	L x W x H (7.5 x 3.5 x 5 in)
Weight Without Lens	Approximately 6 lbs.
Cool Down Time	6 minutes typical
Cooler Type	Linear cooler
MTTF	>20,000 hours
Camera Mount	1/4"-20 standard tripod
Environmental	
Operating Temp	-20°C to + 50°C
Storage Temp	-50°C to + 70°C
Electrical	
Input Voltage	24V
Steady State Power	25W @ 23°C Typical
Max Power	40W
Control	

Nyx Connect™ software simplifies set-up and control of critical sensor settings and digital video through a reliable Camera Link or USB3 Vision connection.
See our video options data sheet.

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Nyx

Image Processing Options for AIRS Smart IDCA's and Cameras

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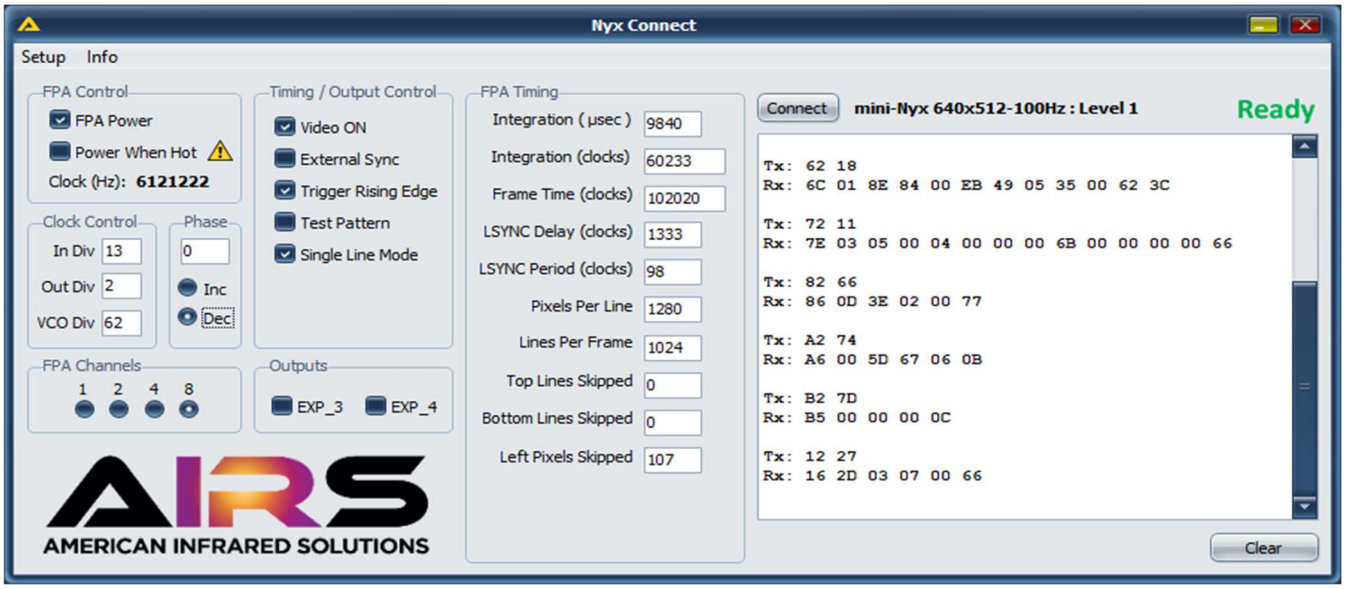
American IR Solutions offers a full strata of camera connectivity and control solutions for OEM system integration or stand-alone applications.

Our new Nyx Connect™ software simplifies set-up and control of critical sensor settings and digital video through a reliable Camera Link or USB3 Vision connection.

System integrators can experiment with custom integration times, advanced pixel replacement tools and other image optimization settings in a safe environment.

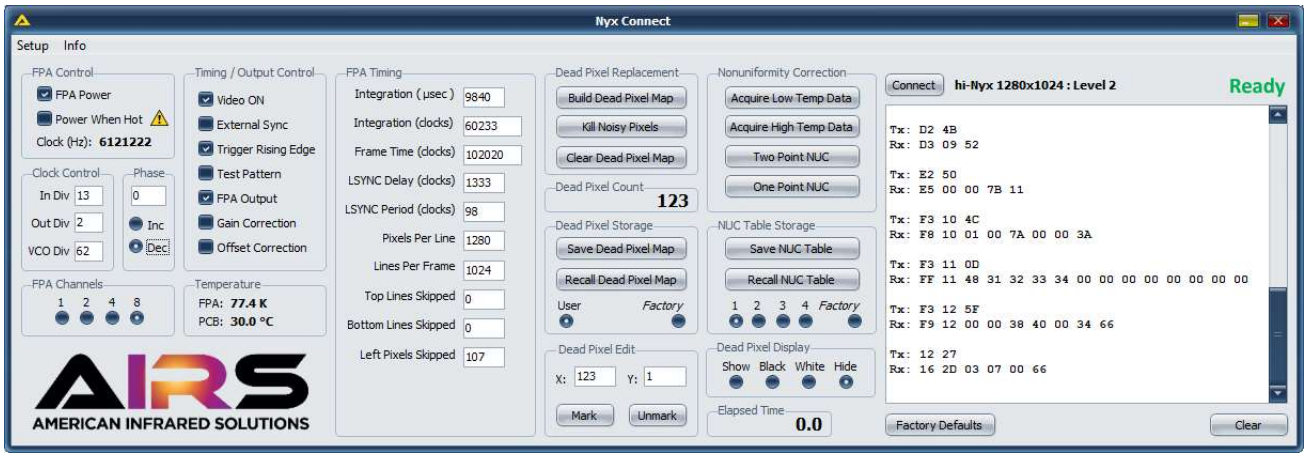
Video options include Camera Link, USB3 Vision, GigE, HDMI and HDSDI outputs.

Nyx Connect™ Level 1



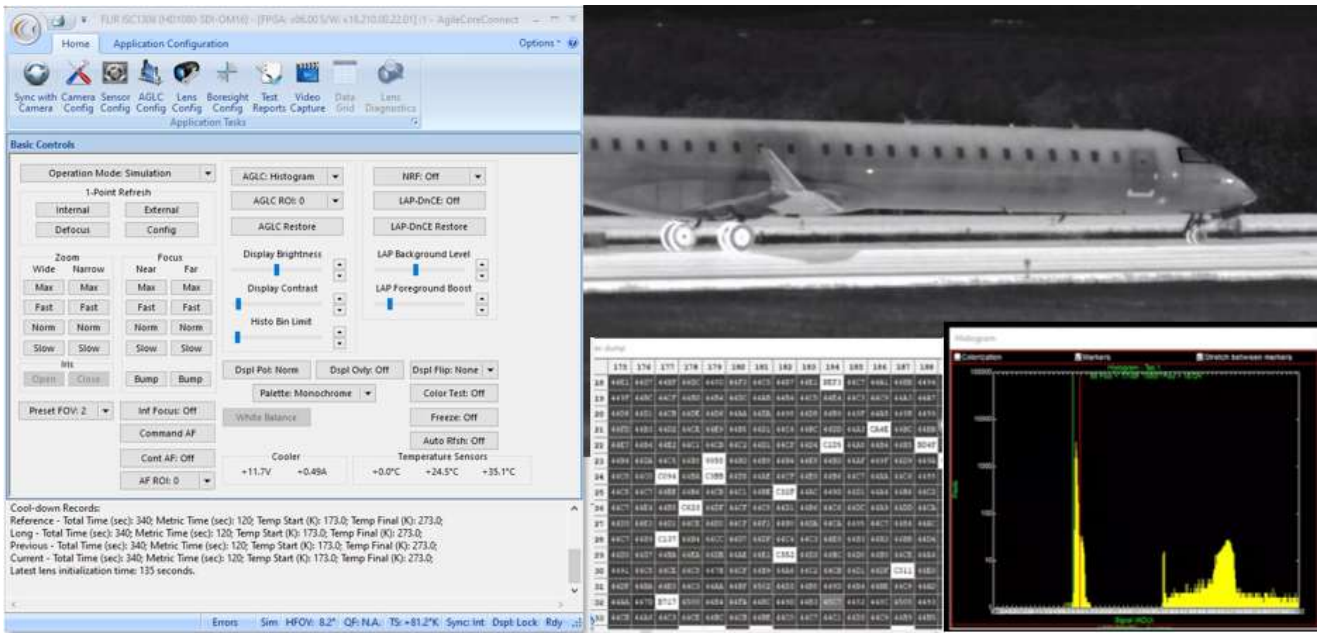
Ideally suited for Smart IDCA and Camera integration and enables streamlined development for engineers, systems integrators, and OEMs. The Nyx Connect software provides a user-friendly GUI enabling control over important camera and ROIC settings.

Nyx Connect™ Level 2



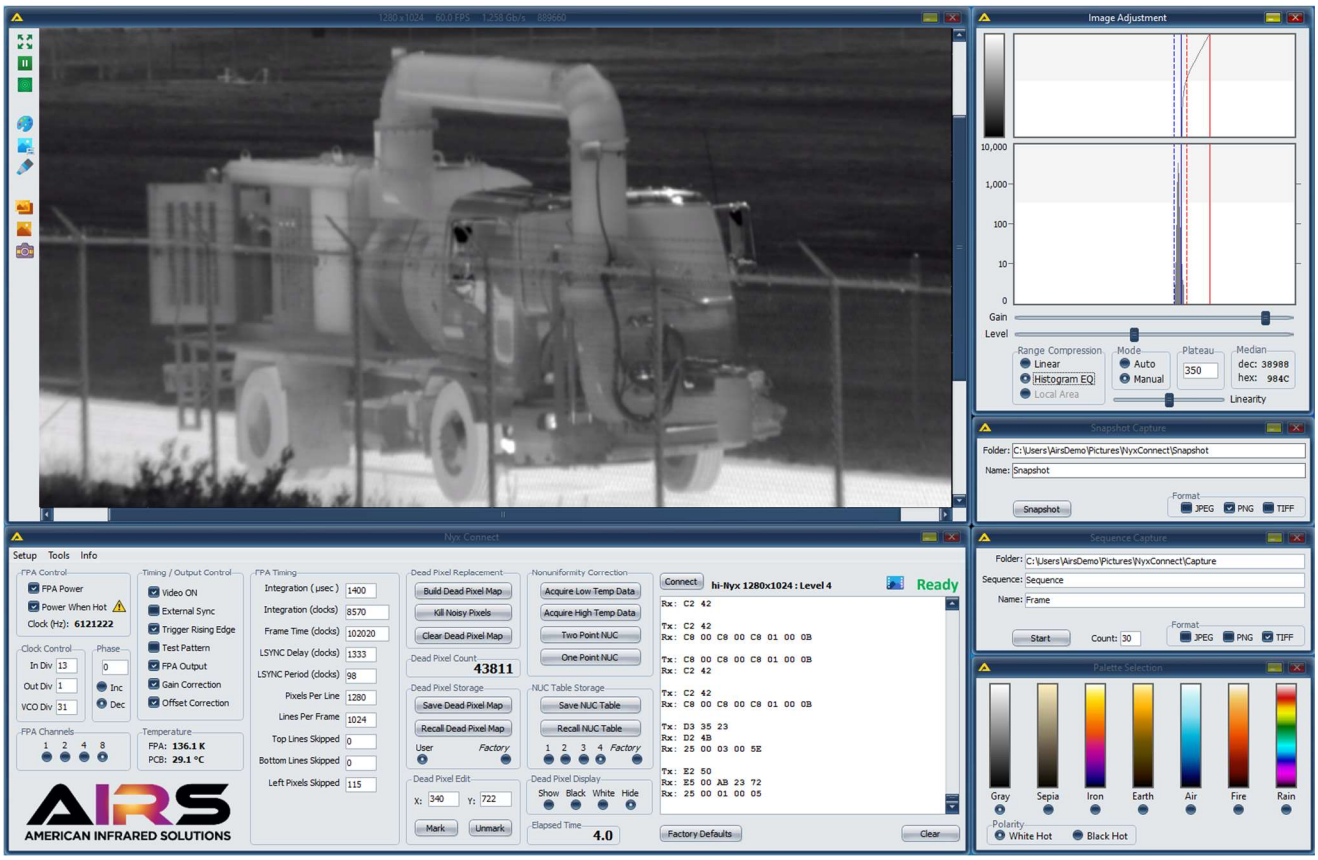
Enables a comprehensive set of tools for integrators, OEMs, and end users. This includes non-uniformity correction, dead pixel replacement, and four programmable NUC tables, in addition to the features included in Level 1 dashboard.

Nyx Connect™ Level 3



Provides a full suite of video processing options including lens control. A second video output channel can be configured to support HDSDI, GigE, HDMI, or USB3. Camera Link video is managed through a Imperx frame grabber, enabling live video management, scene ranges, pixel replacement and image enhancements.

Nyx Connect™ Level 4



Offers comprehensive access and control over all system attributes and crucial image management, including proprietary AIRS contrast enhancement and pixel replacement tools. Advanced pixel correction features include intuitive tools that automatically identify and replace dead pixels, along with the capability to manually mark individual pixels. Select any of seven pseudo color palettes. Save snapshots or frame sequences in JPEG, PNG, or TIFF format.

IDCA and Camera Connectivity and Control Features

Feature	Level 1	Level 2	Level 3	Level 4
Programmable Integration Time	✓	✓	✓	✓
Uncorrected Data Output	16b	16b	14b	16b
Corrected Data Output	-	16b	14b	16b
Camera Link Base Data Interface	✓	✓	✓	✓
USB3 Vision	-	-	✓	✓
2nd Video Output Option: HD-SDI, HDMI, GigE or USB3 Vision	-	-	✓	-
Pixel Correction	-	✓	✓	✓
Advanced Pixel Correction	-	-	-	✓
Linear AGC	-	-	✓	✓
Histogram Equalization	-	-	✓	✓
Local Area Processing	-	-	✓	-
Color Palettes	-	-	✓	✓
User Programmable NUC Tables & Camera States	-	4	6	4
Restore from factory NUC Table	-	✓	-	✓
Store Imagery to PC	-	-	✓	✓
Live Video in GUI	-	-	-	✓
Camera Control – RS232	✓	✓	✓	✓

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American Infrared Solutions 1 Wall St. Hudson NH, 03051 (662) 626-2477

OEM Solutions – 1280 High Definition

Cameras

Smart IDCA's

IDCA's

AIRS
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Nyx

1280 x 1024 Infrared Cameras, Smart IDCA's, and IDCA's

- High resolution, high sensitivity, and low noise cooled infrared sensors are well suited to demanding defense, scientific, airborne, surveillance, and hyper-spectral applications.
- Available in 3 levels of configuration: Camera, Smart IDCA, and IDCA to best align with OEMs capabilities and strengths. AIRS' flexible design enables easy integration into OEM systems, or end users can customize a complete camera to meet their specific applications.
- Solutions available in mid-wave, long-wave, or broadband spectral bands using appropriate InSb, SLS, nBn, and HOT SLS sensor technologies.
- Nyx Connect™ software simplifies setup and control of critical sensor settings and allows OEMs and end users to focus on their mission.
- Multiple video outputs available including Camera Link, GigE, USB3 Vision, HDMI, and HD-SDI.
- Optional on-board video processing enables custom non-uniformity tables and user applied pixel maps for maximum performance.
- AIRS' rapid development cycle and proven qualified components allows researchers and OEMs to customize a 1280 solution to their specifications.

AIRS 1280 Cameras

AIRS 1280 camera solutions can be configured to meet your demanding mission critical applications. AIRS has the flexibility to match the optical prescription of your lenses. We have the facilities and technical expertise to install filters and other optics in the cold space. We can rapidly build a 1280 camera solution to your specifications to enable researchers to explore new boundaries.

	Sensor			
Type	1280 HOT SLS MWIR	1280 InSb MWIR	1280 SLS LWIR	1280 SLS BBIR
Response	2-5µm	1-5µm	7.5-12µm	3-12µm
Sensor Type	HOT SLS @ 120K	InSb @ 77K	SLS @ 70K	SLS @ 70K
Format	1280 x 1024			
NEDT	<25mk		<30mk	
Pixel Pitch	12µm			
	Electronics			
Frame Rate	Up to 60Hz			
Integration Time	100µs to 98% full frame			
Integration Type	Integrate-While-Read			
A/D Resolution	16-bit			
Video Output	Camera Link, GigE, USB3 Vision, HDMI, or HDSDI			
Communication	Serial over Camera Link, USB3 Vision, or GigE			
	Optics			
Cold Filter	3.0 cut-on, 3.4 cut-on, 7.5 cut-on, Custom Options Available			
Lens Type	25, 50, 100mm, custom options available			
Mounting	Bayonet, M80, or custom			
Lens MTF Data	Available on request			
	Mechanical			
Size without lens	L x W x H (7 x 4 x 4 in)			
Weight Without Lens or Handle	Approximately 4 lbs.		Approximately 6 lbs.	
Cool Down Time	6 minutes typical		8 minutes typical	
Cooler Type	Linear and rotary cooler options available			
MTTF	>20,000 hours linear; >8,000 rotary			
Camera Mount	1/4"-20 standard tripod			
	Environmental			
Operating Temp	-20°C to + 50°C			
Storage Temp	-50°C to + 70°C			
	Electrical			
Input Voltage	12V, 16V, or 24V; cooler dependent			
Steady State Power	20W @ 23°C Typical		30W @ 23°C Typical	
Max Power	25W		45W	
	Control and Output			
Nyx Connect	AIRS Nyx Connect™ software for Windows offers 4 levels of connectivity and control with additional video options. Please see the video processing options data sheet.			

AIRS 1280 Smart IDCAs

AIRS 1280 Smart IDCAs make integration easy for OEMs. AIRS offers the flexibility to customize a sensor for your application. Smart IDCAs are perfect for camera manufacturers, hyperspectral imaging applications, airborne gimbals, and space solutions. Smart IDCAs are designed to allow engineers to focus on their system without having to engineer FPA control functions. AIRS has the technical expertise to configure a solution to your needs including: cryocooler, optical prescription, mechanical packaging, cold space optics, and video output. Our smart IDCAs work with Nyx Connect™ for ease of integration. If you have specialized requirements, please call us and our engineers will be happy to discuss a solution.

Sensors	1280 HOT SLS MWIR	1280 InSb MWIR	1280 SLS LWIR	1280 SLS BBIR
	Optical Interface			
Cold Shield	f/1 to f/6 Customizable			
Cold Filter	Bandpass per customer requirements			
	Coolers (several linear and rotary options)			
MTTF Integral Rotary	> 8,000 hours			
MTTF Split Linear	> 20,000 hours			
	Mechanical			
Packaging	To customer specifications			
	Environmental			
Operating Temp	-20°C to +60°C			
Storage Temp	-50C° to +70C°			
	Video & Control			
Frame Rate	Up to 60Hz			
Output and Video Processing	AIRS Nyx Connect™ software for Windows offers 4 levels of connectivity and control with additional video options. Please see the video processing options data sheet. Software ICD is available for integrators who want to use their own control system.			

AIRS 1280 IDCAs

Our 1280 IDCAs are for OEMs and system engineers who want to use their own electronic solution to operate the FPA. As with our Smart IDCAs, we can configure a solution to your mission.

AMERICAN INFRARED SOLUTIONS

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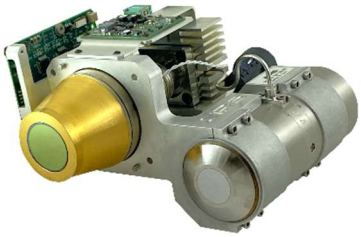
OEM Solutions – 1K Large Format

Cameras



Smart IDCA's

IDCA's

AIRS
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Nyx

1024 x 1024 Infrared Cameras, Smart IDCA's, and IDCA's

- High resolution, high sensitivity, and low noise cooled infrared sensors are well suited to demanding defense, scientific, airborne, surveillance, and hyper-spectral applications.
- Available in 3 levels of configuration: Camera, Smart IDCA, and IDCA to best align with OEMs capabilities and strengths. AIRS' flexible design enables easy integration into OEM systems, or end users can customize a complete camera to meet their specific applications.
- Solutions available in mid-wave, long-wave, or broadband spectral bands using appropriate InSb, SLS, and HOT SLS sensor technologies.
- Nyx Connect™ software simplifies setup and control of critical sensor settings and allows OEMs and end users to focus on their mission.
- Multiple video outputs available including Camera Link, GigE, USB3 Vision, HDMI, and HD-SDI.
- Optional on-board video processing enables custom non-uniformity tables and user applied pixel maps for maximum performance.
- AIRS' rapid development cycle and proven qualified components allows researchers and OEMs to customize a 1K solution to their specifications.

AIRS 1K Cameras

AIRS 1K camera solutions can be configured to meet your demanding mission critical applications. AIRS has the flexibility to match the optical prescription of your lenses. We have the facilities and technical expertise to install filters and other optics in the cold space. We can rapidly build a 1K camera solution to your specifications to enable researchers to explore new boundaries.

	Sensor			
Type	1K HOT SLS MWIR	1K InSb MWIR	1K SLS LWIR	1K SLS BBIR
Response	2-5µm	1-5µm	7.5-12µm	3-12µm
Sensor Type	HOT SLS @ 120K	InSb @ 77K	SLS @ 70K	SLS @ 70K
Format	1024 x 1024			
NEDT	<25mk		<30mk	
Pixel Pitch	18µm			
	Electronics			
Frame Rate	Up to 60Hz			
Integration Time	20µs to 98% full frame			
Integration Type	Integrate-While-Read			
A/D Resolution	16-bit			
Video Output	Camera Link, GigE, USB3 Vision, HDMI, or HDSDI			
Communication	Serial over Camera Link, USB3 Vision, or GigE			
	Optics			
Cold Filter	3.0 cut-on, 3.4 cut-on, 7.5 cut-on, Custom Options Available			
Lens Type	25, 50, 100mm, custom options available			
Mounting	Bayonet, M80, or custom			
Lens MTF Data	Available on request			
	Mechanical			
Size without lens	L x W x H (7 x 4 x 4 in)			
Weight Without Lens or Handle	Approximately 5 lbs.		Approximately 6 lbs.	
Cool Down Time	6 minutes typical		8 minutes typical	
Cooler Type	Linear and rotary cooler options available			
MTTF	>20,000 hours linear; >8,000 rotary			
Camera Mount	1/4"-20 standard tripod			
	Environmental			
Operating Temp	-20°C to + 50°C			
Storage Temp	-50°C to + 70°C			
	Electrical			
Input Voltage	12V, 16V, or 24V; cooler dependent			
Steady State Power	20W @ 23°C Typical		30W @ 23°C Typical	
Max Power	25W		35W	
	Control and Output			
Nyx Connect	AIRS Nyx Connect™ software for Windows offers 4 levels of connectivity and control with additional video options. Please see the video processing options data sheet.			

AIRS 1K Smart IDCAs

AIRS 1K Smart IDCAs make integration easy for OEMs. AIRS offers the flexibility to customize a sensor for your application. Smart IDCAs are perfect for camera manufacturers, hyperspectral imaging applications, airborne gimbals, and space solutions. Smart IDCAs include level 1 video processing and are designed to allow engineers to focus on their system without having to engineer FPA control functions. AIRS has the technical expertise to configure a solution to your needs including: cryocooler, optical prescription, mechanical packaging, cold space optics, and video output. Our smart IDCAs work with Nyx Connect™ for ease of integration. If you have specialized requirements, please call us and our engineers will be happy to discuss a solution.

Sensors	AIRS 1K SLS MWIR	AIRS 1K InSb MWIR	AIRS 1K SLS LWIR	AIRS 1K SLS BBIR
	Optical Interface			
Cold Shield	f/1 to f/6 Customizable			
Cold Filter	Bandpass per customer requirements			
	Coolers (several linear and rotary options)			
MTTF Integral Rotary	> 8,000 hours			
MTTF Split Linear	> 20,000 hours			
	Mechanical			
Packaging	To customer specifications			
	Environmental			
Operating Temp	-20°C to +60°C			
Storage Temp	-50C° to +70C°			
	Video & Control			
Frame Rate	Up to 60Hz			
Nyx Connect	AIRS Nyx Connect™ software for Windows offers 4 levels of connectivity and control. Please see the video processing options data sheet. Software ICD is available for integrators who want to use their own control system.			

AIRS 1K IDCAs

Our 1K IDCAs are for OEMs and system engineers who want to use their own electronic solution to operate the FPA. As with our Smart IDCAs, we can configure a solution to your mission.

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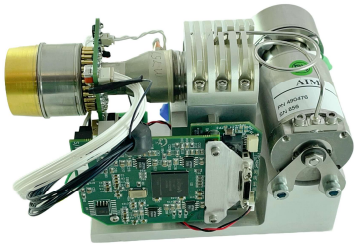
OEM Solutions – 640 Standard Definition

Cameras



Smart IDCA's

IDCA's

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640 x 512 Infrared Cameras, Smart IDCA's, and IDCA's

- High sensitivity, low SWaP (size, wight, and power) and low noise cooled infrared sensors are well suited to demanding defense, scientific, airborne, surveillance, and hyper-spectral applications.
- Available in 3 levels of configuration: Camera, Smart IDCA, and IDCA to best align with OEMs capabilities and strengths. AIRS' flexible design enables easy integration into OEM systems, or end users can customize a complete camera to meet their specific applications.
- Solutions available in Vis-SWIR, Extended SWIR, mid-wave, long-wave, or broadband spectral bands using appropriate InSb, SLS, MCT, and HOT SLS sensor technologies.
- Nyx Connect™ software simplifies setup and control of critical sensor settings and allows OEMs and end users to focus on their mission.
- Multiple video outputs available including Camera Link, GigE, USB3 Vision, HDMI, and SDI.
- Optional on board video processing enables custom non-uniformity tables and user applied pixel maps for maximum performance.
- AIRS' rapid development cycle and proven qualified components allows researchers and OEMs to customize a 640 solution to their specifications.

OEM Solutions – 640 Standard Definition

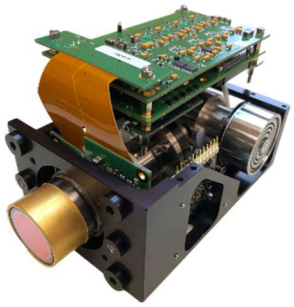
AIRS 640 Cameras

AIRS 640 camera solutions can be configured to meet your demanding mission critical applications. AIRS has the flexibility to match the optical prescription of your lenses. We have the facilities and technical expertise to install filters and other optics in the cold space. We can rapidly build a 640 camera solution to your specifications to enable researchers to explore new boundaries.

	Sensor			
Sensor	640 HOT SLS MWIR	640 InSb MWIR	640 SLS LWIR	640 SLS BBIR
Resolution	640 x 512			
Response	2-5µm	1-5µm	7.5-10µm	3-10µm
Sensor Type	HOT SLS @ 120K	InSb @ 77K	SLS @ 70K	SLS @ 70K
NEdT	<25mK Typical		<30mK Typical	
Pixel Pitch	15µm			
	Electronics			
Frame Rate	Up to 120Hz			
Integration Time	20µs to 98% full frame			
Integration Type	Integrate-While-Read			
A/D Resolution	16-bit			
Video Output	Multiple, see Nyx Connect Options			
Communication	Serial over Camera Link, USB3 Vision, or GigE			
	Optics			
Cold Filter	3.0 cut-on, 3.4 cut-on, 7.5 cut-on, Custom Options Available			
Lens Options	25, 50, 100mm, custom options available			
Mounting Type	Bayonet, M80, or custom			
Lens MTF Data	Available on request			
	Mechanical			
Size Without Lens	(L x W x H) 6 x 3.5 x 4 in			
Weight Without Lens or Handle	Approximately 3 lbs.		Approximately 5 lbs.	
Cool Down Time	5 minutes typical		8 minutes typical	
Cooler Type	Linear and rotary cooler options available			
MTTF	Linear >20,000 hrs.; Rotary >8,000 hrs.			
Camera Mount	1/4 - 20 standard tripod			
	Environmental			
Operating Temp	-20°C to + 50°C			
Storage Temp	-50°C to + 70°C			
	Electrical			
Input Voltage	12V, 16V, or 24V; cooler dependent			
Steady State Power	15W @ 23°C Typical	20W @ 23°C Typical	22W @ 23°C Typical	22W @ 23°C Typical
Max Power	30W	35W	35W	35W
	Control and Output			
Nyx Connect	AIRS Nyx Connect™ software for Windows offers 4 levels of connectivity and control with additional video options. Please see the video processing options data sheet.			

AIRS Smart IDCAs

AIRS Smart IDCAs make integration easy for OEMs. AIRS offers the flexibility to customize a sensor for your application. Smart IDCAs are perfect for camera manufacturers, hyperspectral imaging applications, airborne gimbals, and space solutions. Smart IDCAs are designed to allow engineers to focus on their system without having to engineer FPA control functions. AIRS has the technical expertise to configure a solution to your needs including: cryocooler, optical prescription, mechanical packaging, cold space optics, and video output. Our smart IDCAs work with Nyx Connect™ for ease of integration. If you have specialized requirements, please call us and our engineers will be happy to discuss a solution.



Sensors	640 SLS MWIR	640 InSb MWIR	640 SLS LWIR	640 SLS BBIR
	Optical Interface			
Cold Shield	f/1 to f/6 Customizable			
Cold Filter	Bandpass per customer requirements			
	Coolers (several linear and rotary options)			
MTTF Integral Rotary	> 8,000 hours			
MTTF Split Linear	> 20,000 hours			
	Mechanical			
Packaging	To customer specifications			
	Environmental			
Operating Temp	-20°C to +60°C			
Storage Temp	-50C° to +70C°			
	Video & Control			
Frame Rate	Up to 120Hz			
Nyx Connect	AIRS Nyx Connect™ software for Windows offers 4 levels of connectivity and control with additional video options. Please see the video processing options data sheet.			

AIRS 640 IDCAs

Our 640 IDCAs are for OEMs and system engineers who want to use their own electronic solution to operate the FPA. As with our Smart IDCAs, we can configure a solution to your mission.

AIRS Extended SWIR and Vis-SWIR Smart IDCAs

AIRS extended SWIR and Vis-SWIR Smart IDCAs are designed for ease of integration into hyperspectral instruments, gimbal payloads, and other OEM systems. AIRS has the technical expertise to configure a solution to your needs including customized optical interface, order sorting/blocking filter mounting, precise optical alignment, and custom packaging. We have the capabilities to mount CFE optics in the cold space.

	Sensor	
Sensor	Extended SWIR	Vis-SWIR
Resolution	640 x 512	640 x 512
Response	0.9-2.5µm	0.4-2.5µm
Sensor Type	HOT MCT @ 180K	HOT MCT @ 180K
Pixel Pitch	15µm	
	Electronics	
Frame Rate	Up to 120Hz, faster with windowing	
Integration Type	Integrate-While-Read; Integrate-Then-Read; Rolling Shutter	
A/D Resolution	16-bit	
Video Output	Uncorrected Camera Link	
Communication	Serial over Camera Link	
	Optics	
F Number	To customer specifications	
Cold Filtering	To customer specifications	
	Mechanical	
Weight	Approximately 2 lbs.	
Cool Down Time	4 minutes typical	
Cooler Type	Linear Cooler	
MTTF	>20,000 hrs.	
	Environmental	
Operating Temp	-20°C to + 50°C	
Storage Temp	-50°C to + 70°C	
	Electrical	
Input Voltage Cooler	12V	
Input Voltage Electronics	5V	
Steady State Power	4W @ 23°C Typical	
Max Power	8W	

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