

# Beyond The Limit of Sight

Made for excellence



**FOTRIC 600 Series**  
Fix-mount online cameras

# FOTRIC 600 Series

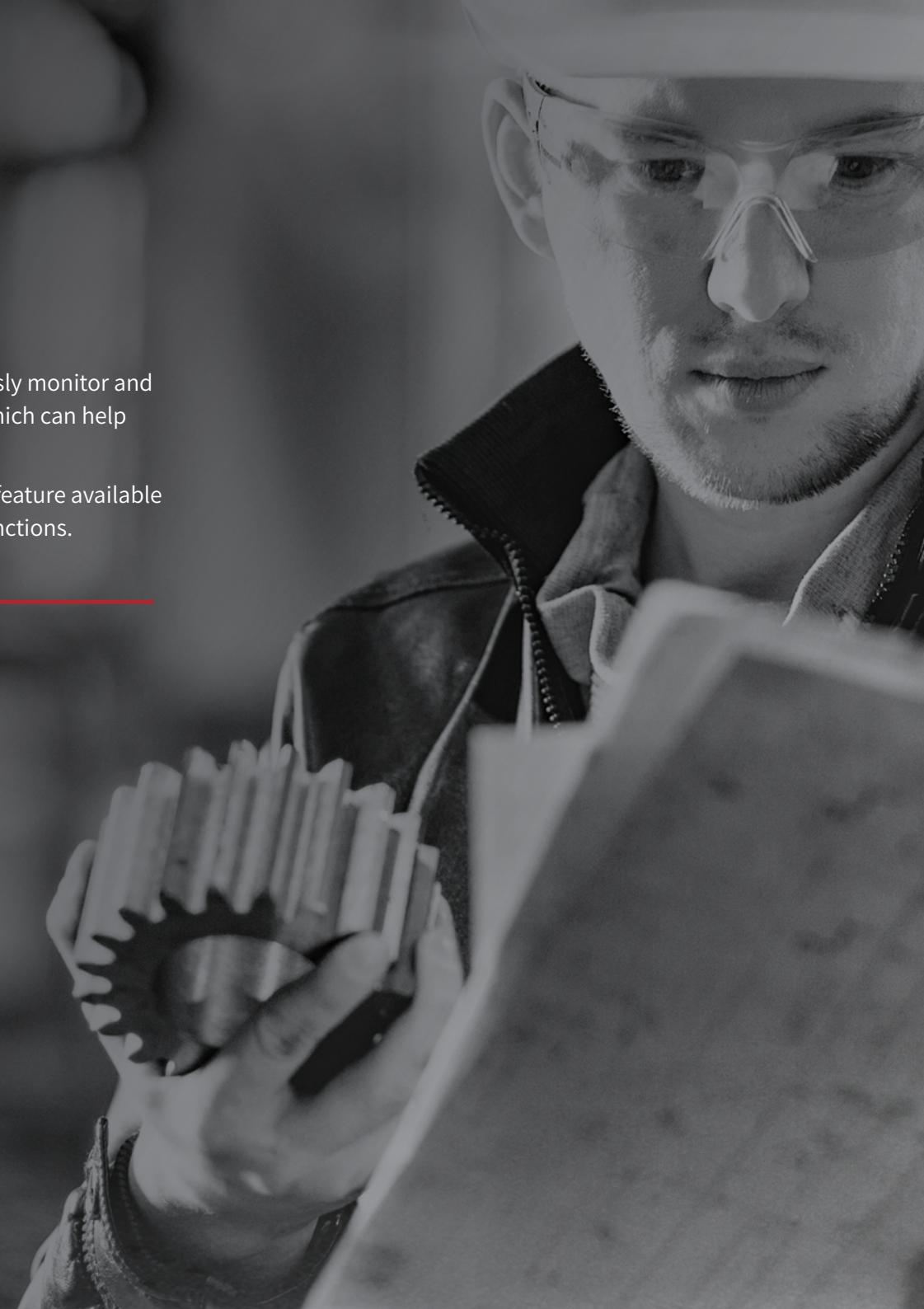
## Fix-mount online cameras

The FOTRIC 600 series online camera can automatically and continuously monitor and record temperature anomaly in accordance with user' s preset rules, which can help optimize industrial process and reinforce quality control;

Users also have access to with a series of sophisticated online analysis feature available in FOTRIC' s AnalyzIR and open API SDK for customized features and functions.

### Main Application

- Research and development;
- Industrial processing;
- Perimeter security;
- Warehouse fire-prevention;



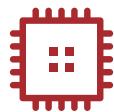


# Product Features

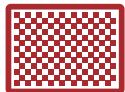
- Support a wide variety of configuration, complying with every scenario.
- Support radiometric video output, providing robust temperature data for analysis
- Maximum temperature range expandable to 2000°C
- Compliant with multiple data transmission protocols, adaptive for connection integration



# World Class Suppliers



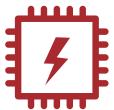
Mother board chip from  
**SAMSUNG**



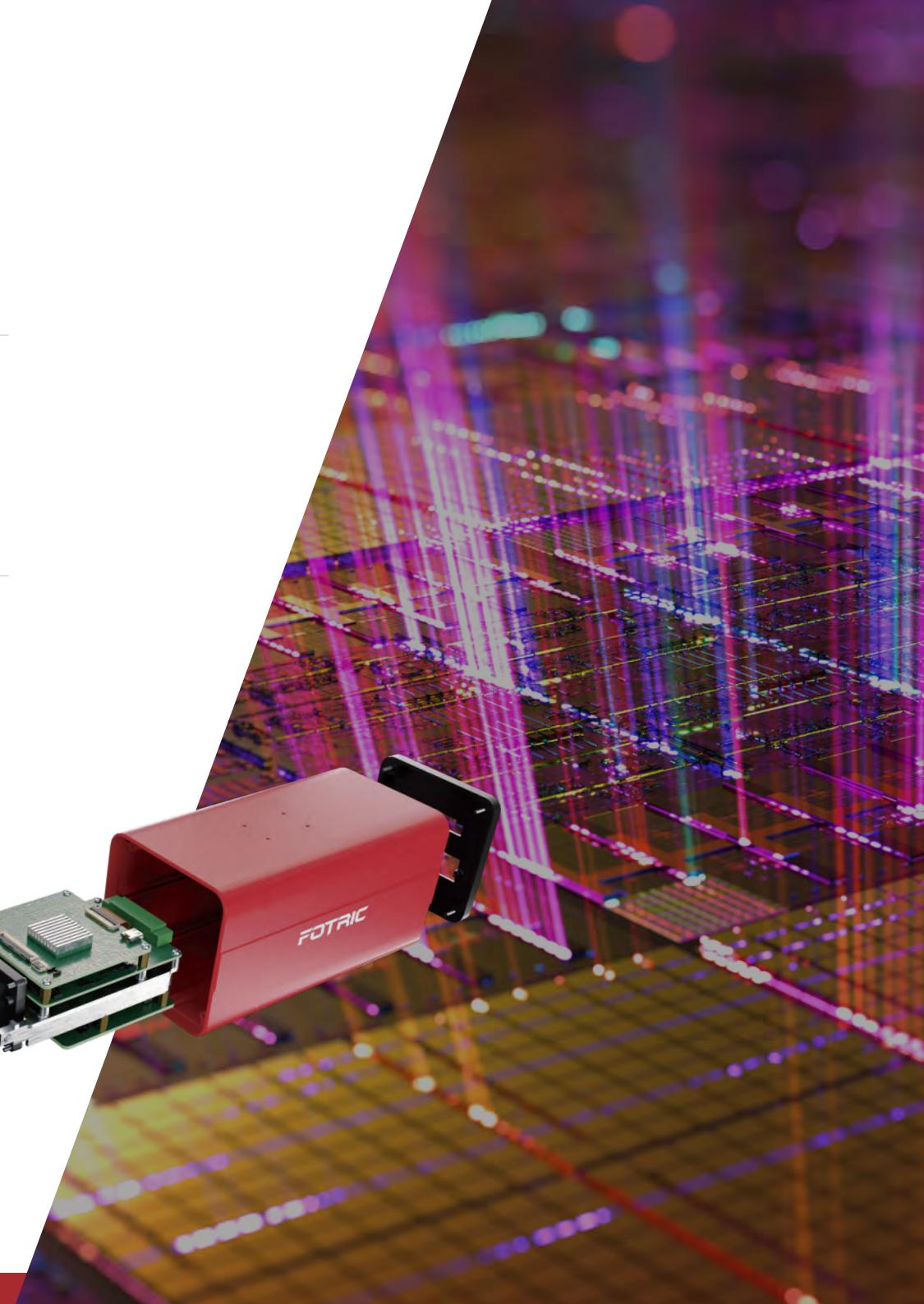
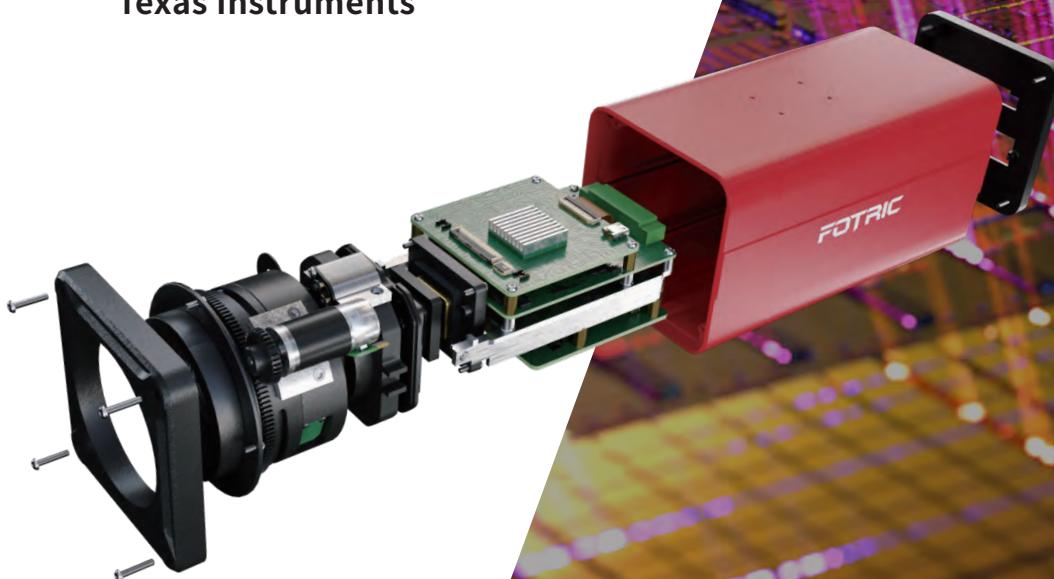
Infrared detector from  
**Lynred**

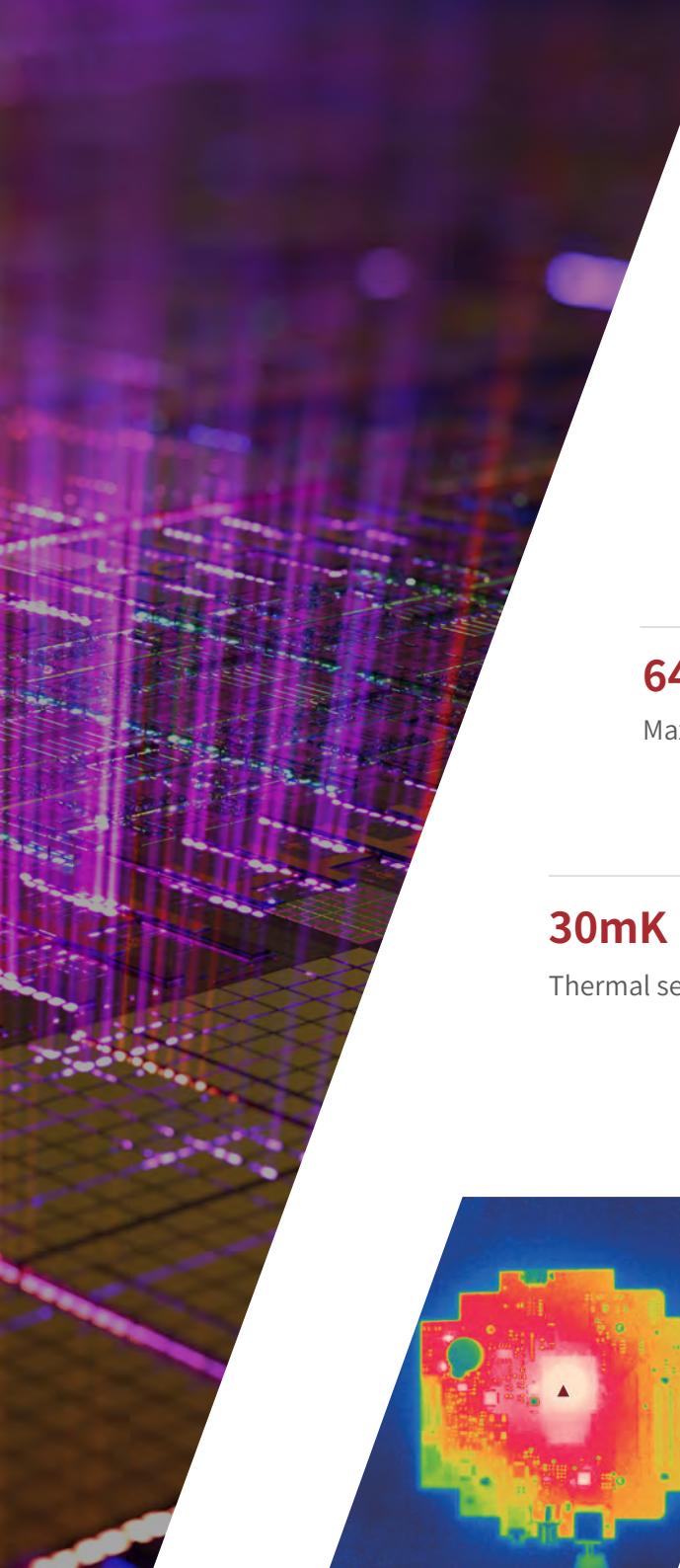


FPGA from  
**Xilinx**



Power supply chip from  
**Texas Instruments**





# Lively Image Accurate Measurement



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**640\*480**

Max thermal resolution

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**±2°C/± 2%**

Accuracy

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**30Hz**

Radiometric video stream

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**30mK**

Thermal sensitivity

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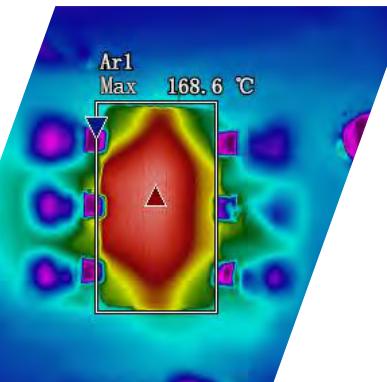
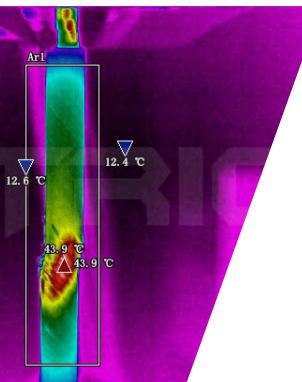
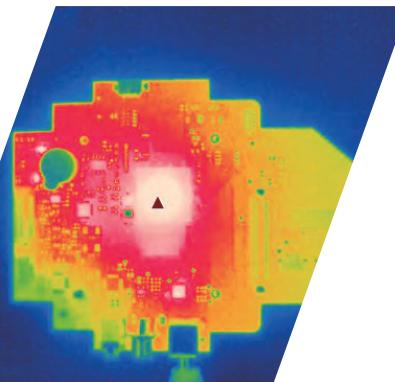
**-20°C~2000°C**

Largest temperature range

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**5spots 10lines 10areas**

Measurement tools



# More Options; More Liberty



## Multiple available models

Support resolution of 640\*480、384\*288、320\*240 and 160\*120, fulfilling every need from different environments



## Abundant lens options

Support  $25^\circ \times 18.7^\circ$ 、 $50^\circ \times 37.5^\circ$ 、 $12^\circ \times 8.9^\circ$ 、 $7^\circ \times 5.2^\circ$  lenses, see the world from different angles



## Open source API software

The FOTRIC SDK offers users the possibility to create softwares tailored to their needs



# Specification

Model	628CH	626CH	628C	626C	625C	618C	616C	615C	613C
<b>Basic Parameters</b>									
Thermal resolution	640*480	384*288	640*480	384*288	320*240	640*480	384*288	320*240	160*120
Detector type					Uncooled focal plane array detector				
Thermal sensitivity	<30mk	<50mk	<30mk	<50mk	<50mk	<30mk	<50mk	<50mk	<60mk
Detector pitch					17μm				
Spectral range					7.5μm-14μm				
FOV					Dependent on the lens configuration				
IFOV					Dependent on the lens configuration				
Minimum focus distance					Dependent on the lens configuration				
Focal distance					Dependent on the lens configuration				
Focus type			Automatic					Manual	
<b>Measurement Analysis</b>									
Temperature range	-20°C-150°C 0°C-650°C 300°C-2000°C	-20°C-150°C 0°C-650°C 300°C-2000°C	-20°C-150°C 0°C-650°C	-20°C-150°C 0°C-650°C	-20°C-150°C 0°C-350°C	-20°C-150°C 0°C-550°C	-20°C-150°C 0°C-550°C	-20°C-150°C 0°C-350°C	-20°C-150°C 0°C-350°C
Accuracy					±2°C/±2%				
Measurement parameters					Emissivity; Ambient temperature; Reflected temperature; Relative humidity; Distance; External optics compensation				
Partial emissivity					Support				
<b>Image display</b>									
Palettes				10 standard palettes and 10 inverted palettes					
Image process				Non-uniform calibration, digital enhancement					
Mirror mode				Left-right, up-down, center					
Video compression				H.264					
Radiometric stream	<30mk	<50mk	<30mk	<50mk	<50mk	<30mk	<50mk	<50mk	<60mk
Pan-tilt-zoom station compatibility				Support Pelco-D protocol					
Measurement tools				5 points, 10 lines and 10 regions, support Modbus output					
Software				AnalyzeIR; Open API FOTRIC SDK					

## Specification

# Specification

Model	628CH	626CH	628C	626C	625C	618C	616C	615C	613C				
<b>Physical parameters</b>													
Working temperature	-20°C-65°C												
Storage temperature	-40°C-70°C												
Relative humidity	<90%												
Size(mm)	164.6*80*79 (standard lens)	157.25*80*79 (standard lens)	142.25*71*70 (standard lens)			112*68*60 (without lens)							
Weight(g)	993 (standard lens)	713 (standard lens)	718 (standard lens)	706 (standard lens)	485 (without lens or base)								
Outer casing material	Aluminum alloy												

## Optional lenses

Model	Parameters	Standard lens	Wide-angle lens	Telephoto lens	Model	Parameters	Standard lens	Wide-angle lens	Telephoto lens	Super wide-angle lens
628CH	FOV	25°* 18.7°	50°* 37.5°	12°* 8.9°	625C	FOV	21°* 15.6°	42°* 31.2°	10°* 7.4°	-
	IFOV	0.67mrad	1.39mrad	0.32mrad		IFOV	1.13mrad	2.07mrad	0.57mrad	-
	Minimum focus distance	0.5m	0.7m	5m		Minimum focus distance	0.3m	0.3m	1m	-
	Focal distance	25.3mm	-12.2mm	-53.9mm		Focal distance	15mm	8.2mm	-30mm	-
626CH	FOV	25°* 18.7°	50°* 37.5°	12°* 8.9°	618C	FOV	29°* 22°	45°* 34°	18°* 13°	92°* 74°
	IFOV	1.13mrad	2.32mrad	0.53mrad		IFOV	0.78mrad	1.21mrad	0.49mrad	2.93mrad
	Minimum focus distance	0.5m	0.5m	1.5m		Minimum focus distance	0.1m	0.3m	1m	0.3m
	Focal distance	15mm	7.34mm	-32.2mm		Focal distance	21.6mm	14mm	35mm	5.8mm
628C	FOV	25°* 18.7°	50°* 37.5°	12°* 8.9°	616C	FOV	30°* 22°	47°* 35°	15°* 11°	91°* 71°
	IFOV	0.68mrad	1.31mrad	0.34mrad		IFOV	1.3mrad	2.125mrad	0.68mrad	4.59mrad
	Minimum focus distance	0.3m	0.3m	1m		Minimum focus distance	0.3m	0.3m	2m	0.3m
	Focal distance	25mm	13mm	50mm		Focal distance	13mm	8mm	25mm	3.7mm
626C	FOV	25°* 18.7°	50°* 37.5°	12°* 8.9°	615C	FOV	25°* 18.7°	39°* 29°	13°* 9°	76°* 59°
	IFOV	1.13mrad	2.07mrad	0.57mrad		IFOV	0.68mrad	2.125mrad	0.68mrad	4.59mrad
	Minimum focus distance	0.3m	0.3m	1m		Minimum focus distance	0.3m	0.3m	2m	0.3m
	Focal distance	15mm	8.2mm	-30mm		Focal distance	25mm	8mm	25mm	3.7mm
626C	FOV	25°* 18.7°	50°* 37.5°	12°* 8.9°	613C	FOV	28°* 21°	50°* 37.5°	-	-
	IFOV	1.13mrad	2.07mrad	0.57mrad		IFOV	3.06mrad	5.43mrad	-	-
	Minimum focus distance	0.3m	0.3m	1m		Minimum focus distance	0.1m	0.1m	-	-
	Focal distance	15mm	8.2mm	-30mm		Focal distance	5.56mm	3.13mm	-	-

# Innovation Excellence Integrity

Equipment described herein may require EU, US and UNSC authorization for export purposes.

Imagery for illustration purposes only.

Specifications are subject to change without notice.

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