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Defence & Security Products Division

Bicam & Tricam Cameras



Bicam/Tricam Changeover Cameras

Bicam/Tricam are a series of 24/7 surveillance cameras employing a unique changeover technology with 2 or 3 sensors chosen to optimise picture quality dependent on conditions.

Lens Options:

10-300mm
20-600mm
17-374mm
23-506mm
46-1012mm
12.5-1500mm

Camera Options

Colour High Resolution
Monochrome high sensitivity
Image Intensified Gen2+,
XD-4 and XR5



Bicam cameras have been designed to allow users to choose the optimum sensor for any given light conditions. From high resolution colour for daytime to either high sensitivity or image intensification for low light and night.

Where it is extremely important to maintain 24/7 surveillance in all conditions Tricam combines all 3 technologies. The use of one lens keeps optic cost to a minimum.

All Bicam & Tricam cameras are enclosed with environmental housing and ready for installation with new or existing CCTV system.

Real Images captured at various focal lengths (school building at 4km)



12.5mm Focal Length



300mm Focal Length



506mm Focal Length



600mm Focal Length



1012mm Focal Length



1500mm Focal Length

Camera Options:

Any combination of high quality colour, high sensitivity monochrome or image intensified camera (3 options) can be married to the lens chosen and housed in an environmental housing ready for installation to a new or existing CCTV system.

Lens Options:

10-300mm	F1.5
20-600mm	F3.0
17-374mm	F2.3
23-506mm	F3.1
46-1012mm	F6.1
12.5-1500mm	F3.8

Colour Camera

Resolution	480 TVL
Min. Illumination	0.2 Lux
Format	1/3" inch

Monochrome

Resolution	570 TVL
Min. Illumination	0.00015 Lux
Format	1/2" inch

Image Intensified

Resolution	570TVL
Format	1/2" inch

Typical Values (Information source Photonis)	TUBE COMPARISON CHART		
	Gen 2+	XD-4	XR5
Sensitivity ($\mu\text{A}/\text{lm}$)	450	700	800
Resolution (lp/mm)	32	64	72
Signal to Noise ratio	15	23	28
Figure of Merit (FOM) Typical	480	1472	2016

Electrical Specification

Connector 14 Way
Input voltage 12V DC

Environmental Specification

Waterproof To IP67
Sealed aluminium housing

Zoom Lens

All zoom lenses are motorised focus, continuous motorised zoom and fitted with auto iris. (Presets can be fitted as an option at the time of manufacture).

Fields of View table

The following table shows angles of view in degrees and mils at wide angle and telephoto including where applicable any extender

		Lens Options Horizontal Field of View											
		10-300		20-600		17-374		23-506		46-1012		12.5-1500	
		Deg	Mils	Deg	Mils	Deg	Mils	Deg	Mils	Deg	Mils	Deg	Mils
Colour	Wide	23.8	423.2	11.8	211.6	16.04	285.2	11.55	205.4	5.775	102.7	21.44	381.2
	Tele	0.84	14.94	0.42	7.468	0.44	7.823	0.32	5.69	0.16	2.845	0.88	1.422
Monochrome	Wide	35.5	631.2	17.75	315.6	21.19	376.8	15.5	275.6	7.75	137.8	28.43	505.5
	Tele	1.25	22.23	0.625	11.11	0.59	10.49	0.43	7.645	0.215	3.823	0.11	1.956
Image Intensifier	Wide	35.5	631.2	17.75	315.6	21.19	376.8	15.5	275.6	7.75	137.8	28.43	505.5
	Tele	1.25	22.23	0.625	11.11	0.59	10.49	0.43	7.645	0.215	3.823	0.11	1.956

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Ordering Information

TRICAM Triple sensor changeover camera comprising high resolution colour camera, extended IR monochrome high resolution camera and image intensified camera and motorised zoom lens in a rugged environmental housing.



Tricam Changeover Camera

Part No.	System/Choice	Lens					
		10-300mm	20-600mm	17-374mm	23-506mm	46-1012mm	12.5-1500mm
594-1012+*	Tricam Colour, Monochrome and Gen2+ night intensification	✓					
594-1022+*	Tricam Colour, Monochrome and Gen2+ night intensification		✓				
594-1032+*	Tricam Colour, Monochrome and Gen2+ night intensification			✓			
594-1042+*	Tricam Colour, Monochrome and Gen2+ night intensification				✓		
594-1052+*	Tricam Colour, Monochrome and Gen2+ night intensification					✓	
594-1062+*	Tricam Colour, Monochrome and Gen2+ night intensification						✓
594-101XD-4*	Tricam Colour, Monochrome and XD-4 night intensification	✓					
594-102XD-4*	Tricam Colour, Monochrome and XD-4 night intensification		✓				
594-103XD-4*	Tricam Colour, Monochrome and XD-4 night intensification			✓			
594-104XD-4*	Tricam Colour, Monochrome and XD-4 night intensification				✓		
594-105XD-4*	Tricam Colour, Monochrome and XD-4 night intensification					✓	
594-106XD-4*	Tricam Colour, Monochrome and XD-4 night intensification						✓
594-101XR-5*	Tricam Colour, Monochrome and XR5 night intensification	✓					
594-102XR-5*	Tricam Colour, Monochrome and XR5 night intensification		✓				
594-103XR-5*	Tricam Colour, Monochrome and XR5 night intensification			✓			
594-104XR-5*	Tricam Colour, Monochrome and XR5 night intensification				✓		
594-105XR-5*	Tricam Colour, Monochrome and XR5 night intensification					✓	
594-106XR-5*	Tricam Colour, Monochrome and XR5 night intensification						✓
Accessories for Tricam Changeover Camera System							
594-333-01	Control box for Tricam when not integrated into CCTV system controls, includes 3m cable						
820800-02	Electronic Image Stabilisation Unit						
583-334	Video image enhancer, Micro Test EV9						

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