

Bicam & Tricam Systems



Bicam/Tricam Changeover System

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

Each system incorporates pan & tilt tripod, power source control and 6.4" TFT rugged waterproof monitor.



Lens Options:

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

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

TUBE COMPARISON CHART

Typical Values (Information source Photonis)	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

Changeover Camera Specifications

Bicam/Tricam Systems:

Pyser-SGI have developed complete systems to allow users fully compatible accessories to provide rapid deployment surveillance systems.

Each system incorporates:

- Bicam or Ticam (lens and tube selectable)
- Pan and tilt unit
- Tripod
- Control Box
- Monitor
- All necessary bracketry and cabling
- Power supplied from batteries with charger
- Airtransportable environment box with wheels
- Instructions.

Housing Dimensions

Dimensions: L.H.W.	Weight:	
10-300mm	631 x 170 x 164mm	5.6kg
20-600mm	631 x 170 x 164mm	5.7kg
17-374mm	531 x 170 x 164mm	5.26kg
23-506mm	531 x 170 x 164mm	5.2kg
46-1012mm	531 x 170 x 164mm	5.3kg
12.5-1500mm	650 x 233 x 255mm	8.1kg



Each monitor has a video output socket to allow recording, onward transmission etc.



Ordering Information

BICAM Dual sensor changeover rapid deployment camera system comprising high resolution colour camera, image intensified or low light monochrome camera and motorised zoom lens in a lightweight rugged environmental housing. Bicam system includes tripod, control box, 6.4" rugged monitor, Milspec transport case and rechargeable battery supply with 3 metre associated cabling.



Bicam Changeover Camera Systems

Part No.	System choice	Lens					
		10-300mm	20-600mm	17-374mm	23-506mm	46-1012mm	12.5-1500mm
593-201M	Bicam Colour/low light Monochrome system	✓					
593-202M	Bicam Colour/low light Monochrome system		✓				
593-203M	Bicam Colour/low light Monochrome system			✓			
593-204M	Bicam Colour/low light Monochrome system				✓		
593-205M	Bicam Colour/low light Monochrome system					✓	
593-206M	Bicam Colour/low light Monochrome system						✓
593-2012+*	Bicam Colour/2+ image intensified system	✓					
593-2012+*	Bicam Colour/2+ image intensified system		✓				
593-2012+*	Bicam Colour/2+ image intensified system			✓			
593-2012+*	Bicam Colour/2+ image intensified system				✓		
593-2012+*	Bicam Colour/2+ image intensified system					✓	
593-2012+*	Bicam Colour/2+ image intensified system						✓
593-201XD4*	Bicam Colour/XD4 image intensified system	✓					
593-202XD4*	Bicam Colour/XD4 image intensified system		✓				
593-203XD4*	Bicam Colour/XD4 image intensified system			✓			
593-204XD4*	Bicam Colour/XD4 image intensified system				✓		
593-205XD4*	Bicam Colour/XD4 image intensified system					✓	
593-206XD4*	Bicam Colour/XD4 image intensified system						✓
593-201XR5*	Bicam Colour/XR5 image intensified system	✓					
593-202XR5*	Bicam Colour/XR5 image intensified system		✓				
593-203XR5*	Bicam Colour/XR5 image intensified system			✓			
593-204XR5*	Bicam Colour/XR5 image intensified system				✓		
593-205XR5*	Bicam Colour/XR5 image intensified system					✓	
593-206XR5*	Bicam Colour/XR5 image intensified system						✓
Accessories for Bicam Changeover Camera System							
820800-02	Electronic Image Stabilisation Unit						
583-334	Video image enhancer, Micro Test EV9						

Ordering Information

Tricam Triple sensor changeover camera rapid deployment system comprising high resolution colour camera, extended IR monochrome high resolution camera and image intensified camera in a lightweight rugged environmental housing. Tricam system includes tripod, control box, 6.4" rugged monitor, Millspec transport case and rechargeable battery supply with 3 metre associated cabling.



Tricam Changeover Camera Systems

Part No.	System/Choice	Lens					
		10-300mm	20-600mm	17-374mm	23-506mm	46-1012mm	12.5-1500mm
594-2012+*	Tricam Colour, Monochrome and Gen2+ night intensification	✓					
594-2022+*	Tricam Colour, Monochrome and Gen2+ night intensification		✓				
594-2032+*	Tricam Colour, Monochrome and Gen2+ night intensification			✓			
594-2042+*	Tricam Colour, Monochrome and Gen2+ night intensification				✓		
594-2052+*	Tricam Colour, Monochrome and Gen2+ night intensification					✓	
594-2062+*	Tricam Colour, Monochrome and Gen2+ night intensification						✓
594-201XD-4*	Tricam Colour, Monochrome and XD-4 night intensification	✓					
594-202XD-4*	Tricam Colour, Monochrome and XD-4 night intensification		✓				
594-203XD-4*	Tricam Colour, Monochrome and XD-4 night intensification			✓			
594-204XD-4*	Tricam Colour, Monochrome and XD-4 night intensification				✓		
594-205XD-4*	Tricam Colour, Monochrome and XD-4 night intensification					✓	
594-206XD-4*	Tricam Colour, Monochrome and XD-4 night intensification						✓
594-201XR-5*	Tricam Colour, Monochrome and XR-5 night intensification	✓					
594-202XR-5*	Tricam Colour, Monochrome and XR-5 night intensification		✓				
594-203XR-5*	Tricam Colour, Monochrome and XR-5 night intensification			✓			
594-204XR-5*	Tricam Colour, Monochrome and XR-5 night intensification				✓		
594-205XR-5*	Tricam Colour, Monochrome and XR-5 night intensification					✓	
594-206XR-5*	Tricam Colour, Monochrome and XR-5 night intensification						✓
Accessories for Tricam Changeover Camera System							
820800-02	Electronic Image Stabilisation Unit						
583-334	Video image enhancer, Micro Test EV9						

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