



CHAKSHU

GYRO STABILISED GIMBAL EO/IR CAMERA

Key Features

- ▶ State-of-the-art high-quality image stabilization
- ▶ Stabilisation accuracy $<150 \mu\text{rad}$
- ▶ High torque direct drive technology
- ▶ Multi-sensor gimbals, configurable and customizable
- ▶ Light weight compact equipment, low power requirement
- ▶ Geo-reference, Geo-tracking & mapping *
- ▶ Automatic detection & tracking of stable and mobile targets *
- ▶ Ease of use, easy integration and versatile
- ▶ User-friendly Ground Control Station (GCS)
- ▶ BIS Certified

*Optional

Technical Specifications

Model	Chakshu-18s	Chakshu-18	Chakshu-118
Weight	750g (975g Ethernet O/P)	1050g (1275g Ethernet O/P)	1300g (1525g Ethernet O/P)
EO	Full HD 1920x1080 pixel		
H FOV°	62° to 6.5°	63.7° to 2.3°	
Zoom	Optical 10x; Digital 12x	Optical 30x; Digital 12x	
IR Sensor	LWIR 640x480 pixel (Uncooled)		
H FOV°	32° (19mm) / 18.5° (35mm)	35mm (13, 19 mm Optional) *(50mm option for Chakshu-118 without LRF)	
Zoom	Digital 4x		
LRF Class1	N/A	N/A	1.5km* max range
Pointer	Optional laser pointer visible (515nm) or IR (830nm)		

Model	Chakshu-218Z	Chakshu-218ZR	Chakshu-318R
Weight	1.8KG (2025g Ethernet O/P)	1.8KG (2025g Ethernet O/P)	2.4 KG (2625g Ethernet O/P)
EO	Full HD 1920x1080 pixel		
H FOV°	63.7° to 2.3°		
Zoom	Optical 30x; Digital 12x		
IR Sensor LWIR (Uncooled)	640x480p/1024x768 pixel	640x480 pixel	640x480 / 1024x768 pixel
H FOV°	VGA 10.3° XGA 16.3°	43.4°-8.2° (15-75mm)	VGA NFOV 6.3° (W 18.7°) XGA NFOV 10° (W 30.1°)
Zoom	Digital 4x	Optical 5x; Digital 4x	Digital 4x
LRF Class1	5km* max range optional		14km* max range optional
Pointer	Optional laser pointer visible (515nm) or IR (830nm)		

Model	Chakshu-318ZR	Chakshu-418ZR
Weight	3.5kg (3725g Ethernet O/P)	5.2kg (5425g Ethernet O/P)
EO	Full HD 1920x1080 pixel	
H FOV°	63.7° to 2.3°	
Zoom	Optical 30x; Digital 12x	
IR Sensor	LWIR 640x480 pixel (Uncooled)	MWIR 640x512 pixel (Cooled)
H FOV°	N FOV 10° W FOV 30.1°	29.8° to 2°
Zoom	Optical 5x, Digital 4x	Optical 15x; Digital 16x
LRF Class1	14km* max range optional	
Pointer	Optional laser pointer visible (515nm) or IR (830nm)	

Note: Cables and mounting platform weights extra

Model	Chakshu-18s	Chakshu-18	Chakshu-118	Chakshu-218Z	Chakshu-218ZR	Chakshu-318R/318ZR	Chakshu-418ZR
EO Sensor	Full HD 10x	Full HD 30x					
DRI Man(km)	4.1/1.1/0.5	>10/3.1/1.5					
DRI Vehicle(km)	>10/3.1/1.4	>20/9.5/4.3					
IR sensor	35mm			60mm	15-75mm	33/99mm dual-FOV	18-275mm
DRI Man(km)	1.029/0.309/0.218			2.45/0.64/0.4	3.6/0.87/0.55	4.3/1.22/0.79	9.2/2.9/1.2
DRI Vehicle(km)	2.352/0.738/0.409			4.0/1.1/0.7	5.5/1.49/0.99	6.4/1.98/1.27	15.5/6/3.3
Optional LRF range	N/A	N/A	-	2400m	2400m	5200m	5200m
NATO target							

DRI - Detection, Recognition & Identification

*Upon atmospheric conditions

MADE IN INDIA



Increase
Indigenous
Content (IC)

Local service support



AatmaNirbhar
Bharat Abhiyan

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SIDM

