

## Crew Remote View System

*Low Light MIL-STD Remote Viewing System for Armoured Vehicle  
Situation Awareness*



### Main Advantages & Features

- True passive Dusk till Dawn remote viewing capability
- Wide 60° horizontal FOV camera
- 1024 x 768 flat panel display
- High quality GigE Vision Ethernet video output
- Rugged and compact
- Highly resistant to shock and vibration
- MIL-STD environmentally qualified
- MIL-STD EMI/RFI qualified
- MIL-STD power conditioning
- Versatile mounting arrangements
- Ideal for new or retrofit applications
- Panoramic viewing capability via additional systems

The Crew Remote View System consisting of a separate camera and display unit has been designed to address the need for a lighter and more versatile method of providing armoured vehicle crew with a reliable remote viewing capability.

Optimised for passive (no external illumination) short range observation over any daylight condition (Dusk till Dawn) the system display provides a crystal clear image from the sensitive (<20mLux) black and white, low light, auto iris camera unit. Multiple systems (camera + display) can be combined to satisfy specific panoramic remote viewing needs.

Both camera and display unit are compact, rugged and resistant to high levels of shock and vibration. Built in filtering allows for reliable connection to a vehicle power supply.

# Crew Remote View System

## Low Light MIL-STD Remote Viewing System for Armoured Vehicle Situation Awareness

### Outline Specification

#### Remote View Camera:

Overall size (approx)	187mm L x 70mm W x 70mm H
Weight (approx)	1.3kg
Standard colour	Green (non reflective)
Construction	Robust aluminium enclosure
Sensor:	
-Colour/BW	Black and White (Colour option)
-Detector format	1360 x 1024 (active pixels) Normally windowed to 1024 x 768
-Field of view	60° horizontal
-Spectral response	400nm-700nm
-Dynamic range	63dB
-Video format	GigE Vision over Ethernet
-Sensitivity	<20mLux (B/W)
Auto-iris lens	Precision iris control, f/1.4 lens
EMI/RFI	Def-Stan 61-5 pt6/MIL-STD 461

#### Environmental:

Operating temperature:	
-Camera	-46°C to 71°C
-Display	-33°C to 55°C
Storage temperature	-46°C to 71°C
Environmental	Def-Stan 00-35 iss4 pt3/ MIL-STD 810
Vibration	Def-Stan 00-35 iss4 pt3/ MIL-STD 810
Shock	Damped sinusoid, 100Hz, 50g, 0.37s

### Applications

- Situational awareness for armoured vehicles
- Force protection or perimeter surveillance
- Mine and IED clearance

#### Remote View Monitor:

Overall size (approx)	190mm L x 150mm W x 80mm H
Weight (approx)	2.5kg
Standard colour	White (non reflective)
Construction	Robust aluminium enclosure
Screen type	6.5" Colour LCD Flat Panel (16.7 million colours)
Resolution	1024 x 768
Video format	GigE Vision over Ethernet
Protective glass	Shatterproof with Anti Reflective coating with micro mesh (emc)
Viewing angle:	
-Horizontal	±80°
-Vertical	Vertical +80° -60°
EMI/RFI	Def-Stan 61-5 pt6/MIL-STD 461

#### Power:

Operating voltage	Def-Stan 61-5/MIL-STD 1275 (Limits 16 to 40 Vdc)
Power consumption:	
-Camera	<9W
-Display	<25W, Low temp ≤75W

#### Communication:

Communications	RS232/Ethernet
----------------	----------------

### Options

- Enclosure colours
- Static overlay for camera direction of view indicator
- Colour camera video sensor
- Multi camera / display systems
- Field of view matched to vehicle installation



#### Instro Precision Limited

Tel : + 44 (0) 1843 604455 Fax : + 44 (0) 1843 864143  
Email : [marketing@instro.com](mailto:marketing@instro.com) Web : [www.instro.com](http://www.instro.com)