



# 2553CM Series

## MIL Spec Colour/Mono Zoom Camera

### Features

- Nato Stock Number: 6720-99-781-3943
- Meets EMC Class A Requirements
- Meets MoD Environmental Specifications
- Sealed & Pressurised to IP68
- Ruggedised
- Up to 25:1 Optical Zoom with x12 Digital
- Auto/Manual Focus
- Serial Link Control with Discrete Option
- Differential Video Output Option
- Colour/Mono Change Over

### Description

The 2553 Colour Camera is designed to meet the tough demands of the military, it is rugged and tolerant of abuse over a wide environmental range, and is in service in a variety of applications worldwide. The camera is also suited to commercial applications where reliability is essential at a cost much less than normally associated with MIL Spec equipment.

The 2553 has an integral optical zoom lens, plus an additional seamless x12 digital zoom. As the ambient light falls, the operator can select monochrome operation for up to 10x more sensitivity.

### Applications

The system is ideal for applications such as EOD 'wheelbarrows' and other remote controlled vehicles, such as forklift trucks and mine clearance vehicles, as well as indirect viewing systems on manned vehicles.

### Accessories

- Lamps (IR or White Light)
- Wiper

### Options

- NSN 6720-99-726-5147
- Discrete control option (no presets available on this model)

## Specifications

### Choice of Cameras

<b>Sensor:</b>	1/4" Exview™ HAD CCD	1/6" SuperHAD™ CCD
<b>Pixels:</b>	752 (h) x 582 (v) (PAL)	752 (h) x 582 (v) (PAL)
<b>Resolution:</b>	460 TV lines (PAL)	460 TV lines (PAL)
<b>Sensitivity:</b>	Colour: 0.7 lux, Mono: 0.1 lux	Colour: 3.0 lux, Mono: 0.5 lux
<b>Zoom:</b>	18x optical & 12x digital (216x total)	25x optical & 12x digital (300x total)
<b>System:</b>	PAL or NTSC	PAL or NTSC
<b>Output:</b>	PAL 1v p-p, (YC optional)	PAL 1v p-p, (YC optional)
<b>Angle of View (H):</b>	48° (wide) to 2.7° (Tele)	45° (wide) to 2 (Tele)
<b>F Stop:</b>	F1.4 to F3.0 at max zoom	F1.6 to F2.7 at max zoom
<b>Focus:</b>	Auto with manual over-ride	Auto with manual over- ride

### Physical

<b>Size:</b>	100 (w) x 100 (h) x 190mm (l) including sun hood
<b>Weight:</b>	1.729kg
<b>Connector:</b>	62 GB 57A 14-19P
<b>Purge Valve:</b>	Schrader 9466-L8 tank valve
<b>Pressure Relief Valve:</b>	213-1M-2-20 (option)
<b>Heater:</b>	Thermostatically controlled. Separate heater supply 24w
<b>Insulation:</b>	Special High Coefficient Foam

### Environmental

<b>EMC:</b>	Def. Stan 59-41 Class A tests DRE01 – E field emissions DRE02 – H field radiation DRS01 – H field susceptibility DRS02 – E field susceptibility
<b>Temperature:</b>	Def. Stan 00-35, (Part 3)/2 test CL1, CL4 -30°C to +60°C (-40°C option)
<b>Shock:</b>	Def. Stan 00-35, (Part 3)/1 test M12s
<b>Vibration:</b>	Def. Stan 00-35, (Part 3)/2 test M1
<b>Driving Rain:</b>	Def. Stan 07-55, (Part 2) test D3
<b>Sand &amp; Dust:</b>	Def. Stan 07-55, (Part 2) test D3

### Connector

Pin	Signal
A	+1vdc camera power
B	Ov camera power
C	Video out
D	Video return
E	Differential Video *
F	Differential Video *
H	RS485 + *
J	RS485 - *
K	RS485GND*
L	RS232 RXD
M	RS232 TXD
N	RS232 GND
U	Heater supply
V	Ov heater supply

Standard control is via serial link from Britannia 2000 controller or PC