

System Hardware

With the Ca-Zoom® 6.2 Digital Inspection System™, GE Inspection Technologies now offers three camera head options to enable you to increase your inspection capabilities from one base platform. Built-in control functions and advanced iVIEW™ image management platform are all packaged into one unit.



PTZ 140 with optional laser accessory

PTZ140

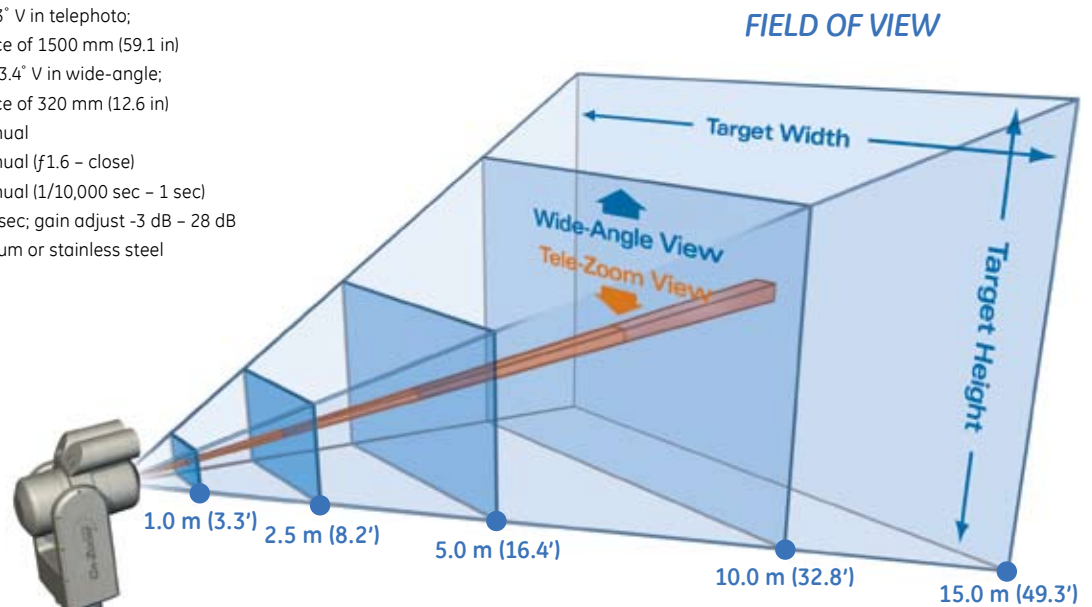
- A: Camera Module**
36x Optical (12x digital) Zoom Camera Module
- B: Dual-Controlled High-Powered Lighting**
2 lamps, 35 W each, with focused dichroic reflectors, spot or flood illumination available, Turbo lamp mode: 40 W total
- C: Tilt Capability**
234° total tilt (+129°/-105°)
- D: Slip-Clutch Mechanism**
Prevents internal damage to pan and tilt components
- E: Pressurized Purge Valve**
Check pressure integrity
- F: Pan Capability**
360° total (+/-180°)
Optional 360° continuous pan capability
- G: Unitized Connectors**
Heavy-duty underwater connector with steel keyway for safe alignment
- H: Lightweight**
Anodized aluminum or optional stainless steel housing

	PTZ140	PTZ100	PTZ70
Weight	3.0 kg (6.7 lb) – Aluminum	1.8 kg (3.9 lb) – Aluminum	2.5 kg (5.5 lb) – Aluminum
Size	287.0 mm (12.60 in) L x 139.7 mm (5.49 in) ø Fits through a 140 mm (5.5 in) ø opening	194.0 mm (7.65 in) L x 98.4 mm (3.88 in) ø Fits through a 100 mm (3.94 in) ø opening	468.0 mm (18.4 in) L x 69.8 mm (2.75 in) ø, Fits through a 76 mm (3.00 in) ø opening

Specifications: PTZ140

Camera

Type:	Color 1/6 in. EXview HAD CCD® (NTSC and PAL)
Resolution:	470 HTV Lines NTSC, 460 HTV Lines PAL
Zoom:	36x optical, 12x digital for a total 432x, f=2.4 mm to 60 mm
Field of View:	In-air: 1.7° H x 1.3° V in telephoto; minimum distance of 1500 mm (59.1 in) In-air: 57.8° H x 43.4° V in wide-angle; minimum distance of 320 mm (12.6 in)
Focus:	Automatic & manual
Iris:	Automatic & manual (f1.6 – close)
Electronic Shutter:	Automatic & manual (1/10,000 sec – 1 sec)
Sensitivity:	1.4 lux at 1/60th sec; gain adjust -3 dB – 28 dB
Construction:	Anodized aluminum or stainless steel



		1.0 m (3.3')	2.5 m (8.2')	5.0 m (16.4')	10.0 m (32.8')	15.0 m (49.3')
Wide-Angle View (58°H x 43°V)	Target Width	1.1 m (3.6')	2.76 m (9.1')	5.52 m (18.1')	11.04 m (36.2')	16.56 m (54.3')
	Target Height	795 mm (2.6')	1.99 m (6.5')	3.97 m (13.0')	7.95 m (26.1')	11.92 m (39.1')
	Screen Magnification†	0.12 x	0.05 x	0.02x	0.01 x	0.008 x
Tele-Zoom View (1.7°H x 1.3°V)	Target Width	30 mm (1.18")	74 mm (2.91")	148 mm (5.83")	297 mm (11.69")	445 mm (1.46')
	Target Height	22 mm (0.87")	56 mm (2.2")	111 mm (4.37")	223 mm (8.78")	334 mm (1.1')
	Screen Magnification†	4.38 x	1.75 x	0.88 x	0.44 x	0.29 x

All values are measured "in air" and are approximate with slight variations based on NTSC or PAL format. Multiply values by 0.75 for underwater FOV or target size. Magnification increases x1.33 for underwater use.

†Screen magnification calculated assuming 6.4" diagonal LCD screen.

Lighting

Two lamps – 35 W each with focused dichroic reflectors

35 W flood:	650 lumens (1300 cp) @ 30° (half-angle) beam spread
35 W spot:	650 lumens (4800 cp) @ 10° (half-angle) beam spread
Turbo lamp mode:	80 W total

Pan & Tilt

	Pan	Tilt
Range:	360° (+/-180°)	234° total (+129°/-105°)
Speed:	0 – 9°/sec.	0 – 9°/sec.
Torque:	0.9 Nm max 8 inch lb max	0.9 Nm max 8 inch lb max
Clutch-protected:	Yes	Yes
Weight:	3.0 kg (6.7 lb) aluminum*	
Size:	287.0 mm (12.6 in) L x 139.7 mm (5.47 in) Ø Fits through a 140 mm (5.5 in) Ø opening	
Mounting:	Four 1/4 – 20 mounting points	
Feedback:	10k ohm potentiometer position feedback	

*Available in stainless steel @ 6.0 kg (13.2 lb)

