

UltraDome™ KD6-NP

9" Nitrogen pressurized environmental dome

The UltraDome™ KD6-NP is specifically designed for installation in an outdoor environment where salt air, dust, humidity or smog infiltrate conventional dome housings. Each UltraDome™ KD6-NP features two independent O-ring seals between top and bottom that maintains up to 5 PSI of dry nitrogen internal to the dome. A thermostatically controlled 24 V AC heater and blower maintains a comfortable operating environment for the integral camera, zoom lens and the UltraDome™ KD6-NP drive mechanism.

The UltraDome™ KD6-NP pan/tilt features variable, manual pan speeds from 0.10° per second to 400° per second, tilt=200° max. The maximum manual pan speed is programmable between 100°, 200° and 400° per second. During automatic operations (PreShots and VectorScans), the UltraDome™ KD6-NP pan and tilt speeds are 400°/200° per second unless otherwise programmed. Using precision stepper motors with belt drives, the operation of the system is extremely quiet and accurate. PreShot recall is within 0.10° accuracy, and PreShot recall speed is approximately 0.5 second.



Features:

- New 229 mm UltraDome™ KD6-NP, nitrogen pressurised dome housing with integral sunshroud
- Maintains dry atmosphere for camera, lens, PTZ in harsh environmental conditions
- Protects against dust, smog, salt air, humidity and many other corrosive environments
- Feed-Through Schraeder Valve permits easy re-charging
- Built-in 24 V AC heater and blower
- "New" Integrated high-resolution colour camera with 18 x optical zoom lens and 4 x digital zoom
- Slow-speed shutter (1/4 sec) provides low-light colour performance down to 0.15 lux
- Optional high-resolution colour camera (Model: CA470S4P) converts to B&W for extreme low-light performance
- 360° continuous pan rotation (proportional to zoom)
- Variable pan speed 1/10° - 400° per second
- Three 2-minute PTZ Patterns (Auto Learn Function)
- 100 programmable PreShot (pan, tilt, zoom) positions with 24-character on-screen labels
- PreShot recall speed is approx. 1/2 second
- 10 programmable VectorScans (video guard tours)
- StillShot™ FreezeFrame of video during tour
- 16 sector IDs with 24-character on-screen displays
- 10 privacy zones
- Auto data polarisation
- Four on-board alarm inputs
- Built-in power isolation and lighting surge protection

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Technical Specifications

TRACKING SYSTEM (PTZ)

Angular travel	Horizontal: 360° continuous Tilt: 0° horizontal to 90° down
Speed (manual mode)	Pan: Variable from 0.10° to 400°/second Tilt: Variable from 0.10° to 200°/second
Speed to preshot	400°/Second (approx. 1/2 second)
PreShot accuracy	<1/10° accuracy
PreShots per dome	Pan/Tilt/Zoom = one hundred (100)
Video tours (VectorScans)	Ten (10) per dome
PreShots per tour	Sixty-four (64)
Still Shot™ feature	Preshot freeze-frame of video during tour
Patterns (learn mode)	Three 2-minute programmable PTZ tours
Sector identification	Sixteen (16) independent sectors (zones)
Privacy zones	10-programmable zones that blank the video when entered for privacy issues
Installation in dome	Simple electrical quick disconnect and mechanical slide mount
Alarm processing	Four (4) on-board alarm inputs for dry contacts

DOMES HOUSING

Dome size	Top: 267.2 (H)mm x 315.2 (Ø)mm Bottom: 109 (H)mm x 229 (Ø)mm
Dome construction	Top, Inner: Steel Top, Outer: White reflective acrylic Bottom: Vacuum formed, optically graded acrylic
Sealing Flange	12.7 mm thick aluminium casting with O-ring seals. Bottom dome compresses O-rings via 8 captive 10-32 screws
Interior pressurisation	Dual Schraeder Valves for purging and pressurisation. Single Over Pressure Valve - factory set @ 7-10 lbs.
Recommend	Dry nitrogen gas for pressurisation only
Optional	Recharge kit model AM001NRK
Dome mount types	NitroDome for pendant, wall and roof (parapet) mounts. Adapters for pole/corner mounting available
Dome finish	Available in smoke colour as standard and clear. All domes include liner. Vaporised gold metal coating on internal dome surface (optional)

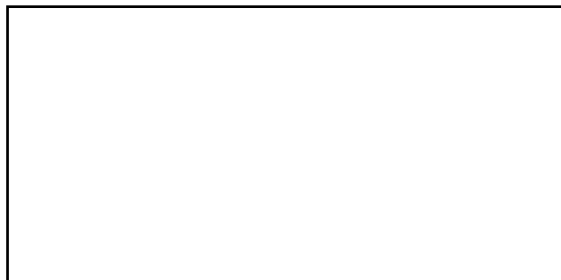
OPTICAL SPECIFICATIONS

Transmittance	Half tint Gold, equivalent 1-1.3 F-stops
Transmittance	Smoked, equivalent 1-2.3 F-stops

HEATER/BLOWER

Integral resistive type thermostatically controlled 24 V AC @ 3.1A (72W) Use: TR24WSPX power supply or equivalent

Your local contact is:



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Every effort has been made to ensure that all the information in this document was correct at the time of going to press. However we are constantly striving to improve our range wherever possible and therefore reserve the right to change the specification of any product without prior notice.

COLOUR CAMERA

Image pickup device	6.35 mm Super HAD CCD™ (Sony chip set)
Effective pixels	752(H) x 582(V) (437,664 pixels) PAL
Signal system	625 lines 50 fields PAL
Resolution	460 TVL
Minimum illumination	1.7 lux with F1.4, 50 IRE units; 0.15 lux with 1/4 sec. shutter 100% reflectance; S/N ratio: 50dB (luminance)

OPTIONAL COLOR/B&W CAMERA

Image pickup device	6.35 mm Super HAD Colour CCD™ (Sony chip set)
Effective pixels	752(H) x 582(V) (437,664 pixels) PAL
Signal system	624 lines 50 fields PAL
Resolution	460 TVL
Minimum illumination	1.7 lux with F1.4, 50 IRE V (colour mode) 0.15 lux with 1/4 sec. shutter (colour mode) 0.015 lux in monochrome mode 100% reflectance; s/n ratio 50dB
Special B/W operation	Monochrome Image. Automatic removal of IR filter & conversion from colour to monochrome (B&W), manual override

LENS

18 x optical zoom lens (f=4.1-73.8 mm F1.4-3.0)
4 x digital zoom magnifier (totalling 72 x zoom)
Smart auto/manual focus control - Auto/manual iris switchable

RECEIVER/DRIVER

Digital - on board.
Communication: RS-485.
BCD (decimal) switch addressability.
Battery-backed memory

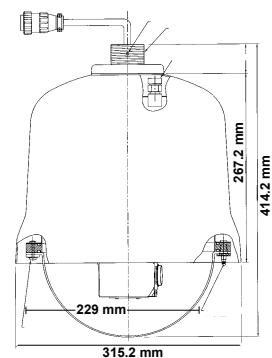
ELECTRICAL SPECIFICATIONS

Input voltage	PTZ: 24 V AC @ 50/60 Hz; Heater/Blower: 24 V AC @ 50/60Hz
Input power PTZ:	0.9 A @ 24 V AC;
Heater/blower:	3.1 A @ 24 V AC
Operating temperature	From -30°C to +50°C (maintained by heater/blower)

MODELS AVAILABLE

See configuration guide

DIMENSIONS



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