

Rugged UltraDome™ KD6

HIGH SPEED DOME TRACKING SYSTEM



The Rugged UltraDome™ KD6 is specifically designed for installation in both indoor and outdoor applications. The dome is dust-tight, weatherproof, and able to withstand mechanical impact in accordance with industry standard IP549. The lower dome is attached with a key-lock to resist tampering. The dome features a rugged integral aluminum “swivel” mounting bracket that can accommodate both wall or pendant mounting. Lower Profile Pendant Bracket is optional for reduced ceiling heights.

The Rugged UltraDome™ KD6 features variable manual pan speeds from 0.10° per second to 400° per second and tilt speeds from 0.10° per second to 200° per second. The maximum manual pan speed is programmable between 100°, 200°, and 400° per second. During automatic operations (PreShots and VectorScans), the KD6 pan and tilt speeds are 400° pan and 200° tilt 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 0.5 second.

- **Mechanical impact-resistant and environmentally designed in accordance with Industry Standards IP549**
- **Tamper-proof with no mounting screw heads accessible from outside**
- **Lower dome constructed of 0.177" thick high impact acrylic**
- **Includes high-resolution color camera with 18X zoom lens and 12X digital zoom (216X total)**
- **Slow speed shutter (down to 1/4 sec) provides low-light color performance down to 0.15 lux - Selectable**
- **Optional high-resolution color camera 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 tours (Auto Learn Function)**
- **100 programmable PreShot (pan, tilt, zoom) positions with 24-character on-screen labels**
- **10 Programmable VectorScans (video guard tour)**
- **16 sector IDs with 24-character on-screen displays**
- **10 privacy zones**
- **Auto data polarization**
- **Auto-pivot tracking**
- **“Still-Shot” freeze-frame during PreShot Tour**
- **Language selection (English, French, German, Italian, Polish or Spanish) for programming menus and on-screen displays**
- **Built-in power isolation and lightning surge protection**
- **3rd Party Protocol Translation - Pelco “P” & “D”, VCL, AD, Philips**
- **Auto Homing feature can also activate Tours and Patterns with Dwell time up to 99 minutes**
- **Optional CAT5 cable compatibility**
- **“Flashback” recalls last PreShot or manual position**
- **24VAC line-lock with 180° phase adjustment**



Rugged UltraDome™ KD6

TECHNICAL SPECIFICATIONS

RUGGED ULTRADOME™ KD6 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 (<1/2 second)
PreShot Accuracy	<1/10° accuracy
PreShots per Dome	Pan/Tilt/Zoom = 100
Video Tours (VectorScans)	10 per dome
PreShots Per Tour	64
Still Shot™ Feature	PreShot freeze-frame of video during tour
Tours	(Learn mode) Three 2-minute programmable PTZ tours
Sector Identification	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	4 on-board alarm inputs for dry contacts
Protocol Translation	MAX-1000, VCL and Pelco "P" & "D". Optional models provide AD Manchester/Philips Bi-Phase Protocol translation, or CAT5 cable compatibility.
Auto-Homing	Activates Vectorscan tours and "Auto Learn" patterns. Dwell time is programmable up to 99 minutes.
Flashback	Recalls the last PreShot position observed whether in manual, Vectorscan or Auto learn (pattern) mode. PreShots can be toggled between last two.
Digital Zoom label	Provides on-Screen identification of digital zoom setting (ie 2x, 4x, 12x). User can select if on or off.
24VAC Line-Lock	Unit is 24VAC line locked with 180° phase adjust.
Freeze Frame of Video	When activated, the unit freezes the video signal for assessment or recording.

DOMES HOUSING

Dome Size	See drawings
Weight	14.75 lbs. (6.69kg)
Dome Construction	Top: 0.187" thick reinforced aluminum alloy casting Bottom: Vacuum formed, 0.160" thick optically-graded acrylic
Dome Mount	Integral aluminum "swivel" bracket
Dome Finish	Available in smoked and clear
Heater/blower (optional)	Thermostatically controlled 24VAC @ 4A (96W) Use KD-TR24WSPL power supply or equivalent

COLOR CAMERA

Image Pickup Device	1/4" Super HAD CCD™
Effective Pixels	768H x 494V (380,000 pixels)
Signal System	NTSC and PAL
Resolution	470 TVL (NTSC) 460 TVL (PAL)
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	1/4" Super HAD CCD™
Effective Pixels	768H x 494V (380,000 pixels)
Signal System	NTSC and PAL
Resolution	470 TVL (NTSC) 460 TVL (PAL)
Minimum Illumination	1.7 Lux with F1.4, 50 IRE units 0.15 Lux with 1/4 sec. shutter 0.015 Lux in B&W mode 100% reflectance
Monochrome Image	Automatic removal of IR filter & conversion from color to monochrome (B&W)
S/N Ratio	50db (luminance)

LENS

18X Optical Zoom Lens	(F=4.1-73.8mm f1.4 Auto Iris) 12X digital zoom magnifier (totaling 216X zoom) Smart Auto/Manual focus control Auto/Manual iris switchable
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RECEIVER/DRIVER

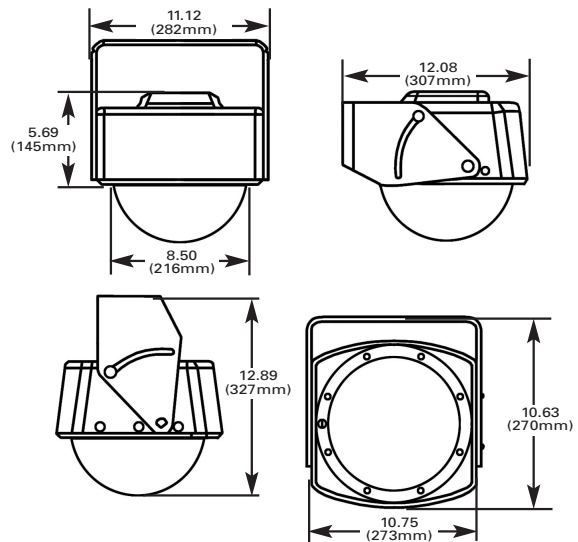
Digital	On-board Battery-backed memory
Communication	RS-485 BCD (decimal) switch addressability

ELECTRICAL

Input Voltage	PTZ - 24VAC @ 50/60 Hz
Input Power	PTZ - 0.9A @ 24VAC
Operating Temperature	-50°F to 122°F (-45.56°C to 50°C) with optional heater/blower
Heater/Blower (optional)	Input Voltage: 24VAC Input Power: 24VAC @ 4A Output: 96 Watts

CERTIFICATIONS/RATINGS

UL Listed	IP549
CE Approved	
FCC Approved	



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