

# UltraDome™ KD6 WeatherDome

## DIAMOND SERIES DOME TRACKING SYSTEM



The UltraDome™ KD6 WeatherDome is specifically designed for installation in an outdoor environment. Each UltraDome™ KD6 WeatherDome includes a thermostatically controlled, 24Vac heater and blower which maintains a comfortable operating environment for the integral camera, zoom lens and the UltraDome™ KD6 WeatherDome drive mechanism.

The UltraDome™ KD6 WeatherDome features variable, manual 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 WeatherDome 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 0.5 second.

- **New 9" WeatherDome with integral sunshroud**
- **Built-in 24Vac heater and blower**
- **"New" Integrated high-resolution color camera with 18X zoom lens and 4X digital zoom**
- **Slow-speed shutter (1/4 sec) provides low-light color performance down to .15 Lux**
- **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 Patterns (Auto Learn Function)**
- **100 programmable PreShot (pan, tilt, zoom) positions with 24-character on-screen labels**
- **Auto homing feature**
- **PreShot recall speed is approx. 1/2 second**
- **10 programmable VectorScans (video guard tours)**
- **16 sector IDs with 24-character on-screen displays**
- **10 privacy zones**
- **Auto data polarization**
- **Four on-board alarm inputs**
- **Auto-pivot tracking**
- **Language selection (English, French, German, Italian or Spanish) for programming menus and on-screen displays**
- **Built-in power isolation and lighting surge protection**



# UltraDome KD6 WeatherDome

## TECHNICAL SPECIFICATIONS

### ULTRADOME™ KD6 WEATHERDOME 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 = 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: 10.375"H x 12.38"W (diameter) Bottom: 4.3"H x 9" diameter
Dome Construction	Top, Inner: Steel Top, Outer: White reflective acrylic Bottom: Vacuum formed, optically graded acrylic
Dome Mount Types	WeatherDome for pendant, wall and roof (parapet) mounts. Adapters for pole/corner mounting available
Dome Finish	Available in smoke color as standard and clear. All domes include liner. Vaporized gold metal coating on internal dome/lens surface (optional)
Optical	Transmittance: Gold, equivalent 1 F-stop Transmittance: Smoked, equivalent 1 F-stop Filtration: Neutral density (no color distortion) Resolution: Passes full camera resolution
Heater/Blower	Integral resistive type thermostatically controlled 24Vac @ 3.1amp. (72WATT) Use: KD-TR24WSPL power supply or equivalent

### COLOR CAMERA

Image Pickup Device	1/4" Super HAD CCD™ (Sony chip set)
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 .15 Lux with 1/4 sec. shutter
100% reflectance	S/N ratio: 50db (luminance)

### ELECTRICAL

Input Voltage	PTZ - 24Vac @ 50/60Hz Heater/Blower - 24Vac @ 50/60Hz
Input Power	PTZ - .9AMP @ 24Vac Heater/Blower - 3.1AMP @ 24Vac
Operating Temperature	32°F - 122°F (0°C - 50°C)

### OPTIONAL COLOR/B&W CAMERA

Image Pickup Device	1/4" Super Had Color CCD™ (Sony chip set)
Effective Pixels	768H x 494 (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 V (color mode) .15 Lux with 1/4 sec. shutter (color mode) .015 Lux in monochrome mode 100% reflectance

### LENS

18X optical zoom lens (f=4.1-73.8mm F1.4A1)
4X digital zoom magnifier (totaling 72X zoom)
Smart Auto/Manual focus control
Auto/manual iris switchable

### SPECIAL B/W OPERATION

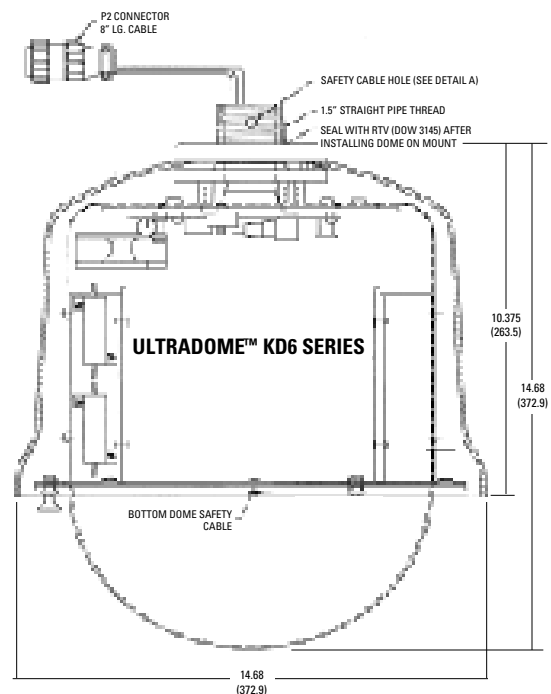
Monochrome Image	Automatic removal of IR filter & conversion from color to monochrome (B&W)
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### RECEIVER/DRIVER

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

MODELS AVAILABLE: See configuration guide

## UltraDome™ KD6 WeatherDome



Conversion: 1" = 25.4mm Measurement conversions are approximate

Design and specifications subject to change without notice.

### Ultrak Worldwide Support Center:

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