

COMPATIBLE DEVICES

RapidDome is compatible with the following RapidView™ Series Controllers and Matrix Switch/Control Systems:

ADEMCO Video RapidView Controllers

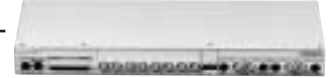
- ADCT Variable speed, RS485 TP, 1 dome, touchstick
- ADCJA Variable speed, RS485 TP, 1 to 128 domes, joystick
- AKJX8A Dome/Multiplexer Controller, 1 to 128 domes, up to 8 multiplexers, joystick



ADEMCO Video RapidView Matrix Switch/Control Systems

(Keyboard required for the following units)

- AS81 8 input x 1 output, RS485 TP and UTC control
- AS82 8 input x 2 output, RS485 TP and UTC control
- AS84TP 8 input x 4 output, RS485 TP control
- AS161 16 input x 1 output, RS485 TP and UTC control
- AS162 16 input x 2 output, RS485 TP and UTC control
- AS164TP 16 input x 4 output, RS485 TP control
- AS322 32 input x 2 output, RS485 TP and UTC control
- AS324TP 32 input x 4 output, RS485 TP control
- AS328TP 32 input x 8 output, RS485 TP control



ADEMCO Video RapidView Keyboards

- AKJ8A Variable speed and zoom joystick
- AKT8 Variable speed touchstick



Code Distribution Unit

- ADCD8TP 8 independent RS485 TP code outputs



TP= Twisted Pair, **UTC**=Up-the-Coax

ADEMCO Video VideoBloX Matrix Switch/Control Systems:

Premier modular matrix switcher offering configurations up to 4080 x 256 for video/audio peripherals and alarms

ORDERING:

Part No. NTSC Standard	Part No. PAL Standard	Description
AD8GC18W	AD8GC18WX	RapidDome Gold, Environmental, Color, 18/144X, UTC/TP, Wall Mount
AD8GC18S	AD8GC18SX	RapidDome, Environmental, Color, 18/144X, UTC/TP, Soffit Mount
AD8GC18P	AD8GC18PX	RapidDome, Environmental, Color, 18/144X, UTC/TP, Pole/Flat Roof Mount
AD8GC18PNPT	AD8GC18NPTX	RapidDome, Environmental, Color, 18/144X, UTC/TP, NPT Mount
AD8GCM18W	AD8GCM18WX	RapidDome Gold, Environmental, Color/Mono, 18/144X, UTC/TP, Wall Mount
AD8GCM18S	AD8GCM18SX	RapidDome, Environmental, Color/Mono, 18/144X, UTC/TP, Soffit Mount
AD8GCM18P	AD8GCM18PX	RapidDome, Environmental, Color/Mono, 18/144X, UTC/TP, Pole/Flat Roof Mount
AD8GCM18NPT	AD8GCM18NPTX	RapidDome, Environmental, Color/Mono, 18/144X, UTC/TP, Pole/NPT Mount
AD8GC22W	AD8GC22WX	RapidDome, Gold, Environmental, Color, 22/176X, UTC/TP, Wall Mount
AD8GC22S	AD8GC22SX	RapidDome, Gold, Environmental, Color, 22/176X, UTC/TP, Soffit Mount
AD8GC22P	AD8GC22PX	RapidDome, Gold, Environmental, Color, 22/176X, UTC/TP, Pole/Flat Roof Mount
AD8GC22NPT	AD8GC22NPTX	RapidDome, Gold, Environmental, Color, 22/176X, UTC/TP, NPT Mount

Accessories

ADPMAT	Side mount pole bracket for pole/flat roof mount
ADPMAW	Side mount pole bracket for wall mount
ADWCB	Corner mount bracket for wall mounts
PS8024	Power supply: 120VAC to 24 or 28 VAC – 80VA

For more information on ADEMCO Video products, please contact your sales representative or visit our Web site at www.ademcovideo.com

ADEMCO Video is committed to ongoing product improvement; we therefore reserve the right to change specifications without notice.

**RapidDome
High Speed
Environmental
Domes**

ADEMCO VIDEO

Customer Service . . .800-352-9169
Applications877-653-0302
Technical Support . . .888-238-7978
Fax516-921-4307
www.ademco-video.com

171 Eileen Way, Syosset, NY 11791

Copyright ©2002 Pittway Corporation

**ADEMCO
VIDEO**

RapidDome™ Gold

ADEMCO Video's RapidDome Gold environmental domes are the premier choice for any application. RapidDome Gold's high-resolution, low light sensitivity and extended zoom capabilities can satisfy even the most extreme, complex viewing requirements.

RapidDome Gold is extremely flexible, offering three different imager/lens options. All feature frame integration modes that allow RapidDome Gold to deliver images at far lower light levels than conventional cameras. A color/mono changeover imager automatically removes its IR cut filter in extreme low light conditions, allowing performance in light levels as low as 0.01 lux.

RapidDome Gold features continuous autofocus and either a 144X zoom (18X optical, 8X digital) or an even more powerful 176X zoom (22X optical, 8X digital). Its intelligent zoom automatically adjusts pan and tilt speeds in proportion to zoom position. The dome provides 360° continuous pan rotation and precise manual variable speed control at 0.1-100°/second. And its attractive, compact design is low profile at only 8", making it the perfect choice for applications where aesthetics are critical and discreet surveillance is a must. RapidDome Gold also provides advanced features such as Privacy Zones, that can mask sensitive areas of a scene from view, and Home Position, which automatically returns the dome to a preset or tour after a specified period of inactivity. Mimic Tours allow operations programmed at the keyboard to be memorized and recalled, allowing for unattended operation.

All RapidDome Gold environmental domes are extremely lightweight, yet can withstand the rigors of virtually any environmental condition. They also offer superior mounting flexibility. Mounting configurations including plug and play wall, soffit, pole and corner mounts, and a configuration specifically designed for NPT installations.

For indoor applications, choose RapidDome Gold indoor domes, which are available in a wide range of versatile mounting configurations.

FEATURES:

The Premier, High-Performance Color Dome

- IP65/NEMA-4 Rated
- Compact lightweight design at only 8"
- Extremely flexible mounting options
- Unsurpassed ease of installation
- High resolution, low-light, DSP cameras
- Eight alarm inputs and two relay outputs resident in the dome
- Automatic digital backlight compensation
- 144X zoom (18x optical, 8x digital) or 176X zoom (22x optical, 8x digital) available
- 28 Privacy Zones
- Integral twisted pair module (most models)
- Home Position
- Continuous auto focus and auto iris with manual overrides
- Automatic 180° flip circuitry
- Sector Identification
- 128 presets, 4 preset tours, and 4 mimic tours
- Built-in intelligent receiver for up-the-coax (UTC) or RS485 twisted pair (TP) operation
- Built-in code translator provides compatibility with PELCO P or D based systems
- Automatic vertical sync-phase adjustment



**High-Speed
Environmental
Domes**

**ADEMCO
VIDEO**

RapidDome Gold's weather resistant design ensures consistent performance in the most severe environmental conditions.

• **Weather Resistant/IP-65 Rated:**

RapidDome Gold series domes can be installed in virtually any environment.

• **Easy installation and servicing:**

RapidDome Gold's environmental domes are extremely lightweight and offer superior mounting flexibility.

• **High resolution, low-light camera:**

RapidDome Gold's high resolution DSP cameras and low-light sensitivity (down to 0.01 lux) make it ideal for any installation.

• **Continuous auto focus with manual override:**

No matter what the zoom position, RapidDome Gold's images remain in sharp focus. When the scene requires extra fine control, RapidDome Gold allows the operator to override the auto focus settings.

• **Intelligent zoom:**

RapidDome Gold automatically adjusts pan and tilt speeds in proportion to zoom position for greater control. The lens pauses at the end of its optical zoom, then enters digital zoom mode.

• **High-speed pan, tilt, and zoom systems:**

RapidDome Gold features 360° continuous rotation on gold slip rings. RapidDome Gold also features high-speed precision control with electronic braking for up to 400°/second operation down to 0.1°/second.

• **Home Position:**

This feature allows the dome to return to a preset or start a tour after it remains inactive for a specific, user definable

period of time. This ensures that even when a dome is unattended, it can be viewing an important area.

• **180° flip ON/OFF:**

When this feature is ON, RapidDome Gold automatically turns 180° when reaching its lower tilt limit. This allows the operator to continuously track objects moving directly below the camera.

• **Preset positioning and tour capabilities:**

RapidDome Gold's presets can easily be set up and recalled by the operator when using ADEMCO Video RapidView systems. Four preset tours and four mimic tours may be programmed and recalled.

• **Privacy Zones:**

28 programmable privacy zones allow the camera to block private views from the monitor.

• **Sector Identification:**

The RapidDome Gold supports up to 16 user definable sectors, each with a definable title of up to 10 characters.

• **Up-the-coax or RS485 twisted pair operation:**

Utilizing lift and gain circuitry, up-the-coax operation of up to 1,640 feet (1,500 meters) is possible with appropriate cable. RS485 twisted pair operation allows up to 32 RapidDome Gold domes to be daisy chained at a maximum of 5,000 feet (1,500 meters).

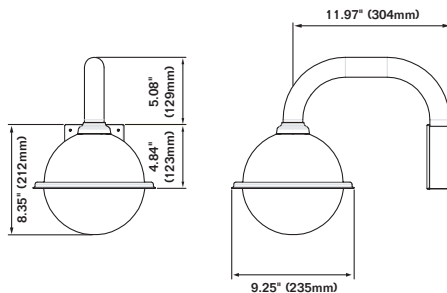
• **Automatic sync-phase adjustment:**

Using compatible RapidView Matrix Systems, the video signal can be synchronized with other system inputs with the touch of a button.

STANDARD DOME ASSEMBLIES

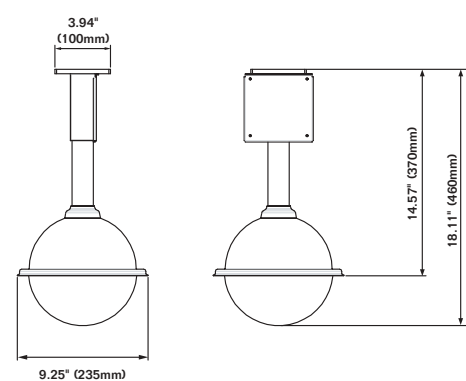
Wall Mount Version

AD8GC18W (NTSC)
AD8GC18WX (PAL)
AD8GCM18W (NTSC)
AD8GCM18WX (PAL)
AD8GC22W (NTSC)
AD8GC22WX (PAL)



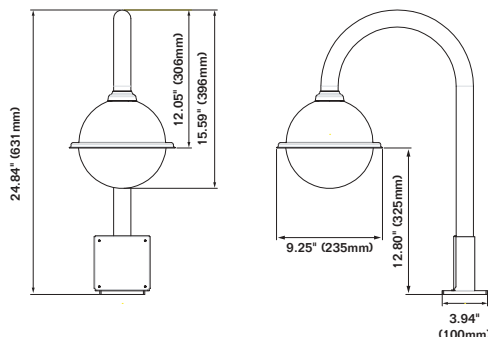
Pendant/Soffit Version

AD8GC18S (NTSC)
AD8GC18SX (PAL)
AD8GCM18S (NTSC)
AD8GCM18SX (PAL)
AD8GC22S (NTSC)
AD8GC22SX (PAL)



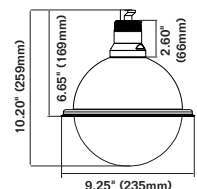
Pole/Roof Version

AD8GC18P (NTSC)
AD8GC18PX (PAL)
AD8GCM18P (NTSC)
AD8GCM18PX (PAL)
AD8GC22P (NTSC)
AD8GC22PX (PAL)



1-1/2-inch NPT Version

AD8GC18NPT (NTSC)
AD8GC18NPTX (PAL)
AD8GCM18NPT (NTSC)
AD8GCM18NPTX (PAL)
AD8GC22NPT (NTSC)
AD8GC22NPTX (PAL)



TECHNICAL SPECIFICATIONS

Camera

Imager 1/4-inch CCD
 Scanning System 2:1 interlaced
 Signal-to-noise ratio > 50db
 Sync System Line-lock

NTSC Horizontal Resolution

18X >470TVL
 22X >460TVL

Effective Pixels 768 x 494
 Scanning 525 lines, 60 fields, 30 frames

Horizontal 15.734 kHz
 Vertical 59.94 Hz

PAL Horizontal Resolution

18X > 460TVL
 22X > 460TVL

Effective Pixels 752 x 582
 Scanning 625 lines, 50 fields, 25 frames

Horizontal 15.625 kHz
 Vertical 50 Hz

Video Output 1.0 Vp-p, 75 Ω

Sensitivity (50 IRE, AGC on)

Color Camera (18X)

Color 1.0 lux
 Color Integration 0.4 lux

Color/mono Camera (18x)

Color 1.0 lux
 Color Integration 0.4 lux
 Mono 0.1 lux
 Mono Integration 0.01 lux

Color Camera (22X)

Color 1.0 lux
 Color Integration 0.1 lux

White Balance Through the Lens (TTL)
 Automatic Tracing White Balance (ATW)

Lens

Optical Zoom 18X, 22X
 Digital Zoom8X
 Focus and Iris Auto/Manual Override

Design Aspherical

Focal Length

18X 4-1-73.8mm
 22X 4-88mm

Aperture F 1.4

Viewing Angle, 18X

4.1mm 47.5° (H) x 37.0° (V)
 73.8mm 2.8° (H) x 1.7° (V)

Viewing Angle, 22X

4.0mm 48.0° (H) x 37.0° (V)
 88.0mm 2.3° (H) x 1.7° (V)

Mechanical

Height

Wall 13.43" (341mm)
 Pole 24.84" (631mm)
 Soffit 18.11 (460mm)
 1.5" NPT 10.20" (259mm)

Bubble Diameter8" (203mm)

Unit Weight 4 lbs (1.81 Kg)

Shipping Weight 6 lbs (2.72 Kg)

Environmental

Weatherproof Standard IP65/NEMA-4
 Operating Temperature -40° to 122°F (-40 to 50°C)
 Humidity 20% to 90%
 Storage Temperature: -4° to 140° F (-20 to 60°C)
 Storage Humidity: 20% to 90%

Regulatory

Emissions: FCC:47 CFR Part 15,
 Subpart B, Class A,
 CE: EN55022 Class B
 Immunity: CE: EN55082-1

Operational

Manual Pan Speed: 0.1°-100°/second
 Preset Pan Speed 400°/second maximum
 Pan Travel: 360° Continuous
 Manual Tilt Speed: 0.1° to 100°/second
 Preset Tilt Speed 200°/second maximum
 Tilt Travel: 90°
 Pan/Tilt Accuracy 2%

Total Zoom

Optical Zoom 18X, 22X
 Digital Zoom8X
 Maximum Zoom 144X, 176X
 Zoom/Focus Accuracy 0.25°

Light Loss F 0

Programmable Presets 128 Preset Positions
 (Each Preset includes Pan, Tilt, Zoom, Iris, Focus)

Programmable Preset Tours 4; 128 steps

(Each step consists of a preset, speed and dwell-time)

Programmable Mimic Tours 4, up to 3 minutes each

Auto Synchronization Line-Locked w/ remote
 synchronization adjustment
 (system dependent)

Video Output Connector BNC flying lead connector
 (supplied)

Electrical

Voltage 24VAC, Class 2 LPS, 60 Hz

Power80 Watts

Power On-Rush Current 4.2 AMPS

Surge Protection

- RS485 Protection diodes w/ Optical
 Isolation

Alarm Inputs Filtered for transients

Wiring Distances

Distance from Power Supply (in feet)	Wire Gauge						
	10	12	14	16	18	20	22
(in feet)	357	224	141	89	56	35	22
(in meters)	108	68	43	27	17	10	7