



**RHODUL-03**  
Outdoor Dome Housing



**RHODUL-03VR**  
Outdoor Dome Housing

## FEATURES

- NEW** Reinforced high impact design
- NEW** Vandal resistant option
  - Compact, attractive design
  - Temperature-controlled interior environment
  - Meets IP66 /NEMA 4 specifications
  - Class 2 LPS certified
  - Four tamper-proof screws with driver bit supplied
  - Surge and lightning protection of video, communications, alarm input and output, and power
- Ceiling, pole, roof, wall and corner mounts available
- Flying lead connector with Euro-style screw terminal
- Allows daisy chain configuration of control wiring
- J-Boxes available to facilitate wiring of housing and dome
- Prevents and removes accumulated ice in one hour
- Internal LEDs and switches verify proper power and communication status

## SpeedDome® Ultra

### OUTDOOR DOME HOUSING

The SpeedDome Ultra outdoor housing allows the SpeedDome Ultra dome to be installed in virtually any environment. The housing is temperature controlled and weather proof, protecting the dome from a wide range of outside temperatures. In extreme temperatures, the housing's built-in thermostat and heater prevents ice from forming on the outside bubble. The housing is made of a reinforced fiberglass high impact polycarbonate material along with a UV stabilized sun shade trim ring and top cover. The bubble assembly is affixed to the top via tamper-proof screws.

For applications where vandalism is a concern, a vandal resistant model is available which includes an aluminum sunshield cover and a high impact bubble which meets ANSI-87.1 impact safety standards. For additional protection a stainless steel bubble cage is provided.

Simply plug in the video cable, connect power and data, and install any SpeedDome Ultra. Diagnostic power and communications LEDs confirm proper connection and aid in troubleshooting. A variety of mounts accommodate the housing, making it easy to install.

The housing is equipped with one alarm input and one alarm output, and surge protection is provided to all video and external lines. The housing is supplied with a choice of either clear or smoked bubble.

# SPECIFICATIONS

## Model Numbers

RHODUL-03	Housing with integrated I/O board and clear bubble (f0)
RHODUL-03VR	Vandal Resistant housing with integrated I/O board and high impact clear bubble (f0)
RHCLRVRKIT	Upgrades an existing RHODUL-03 to a RHODUL-03VR
RHODUL-04	Housing with integrated I/O board and smoked bubble (f1.0)
RHODUL-04VR	Vandal Resistant housing with integrated I/O base and high impact smoked bubble (f1.0)
RHSMKVRKIT	Upgrades an existing RHODUL-04 to a RHODUL-04VR

## Electrical (combined dome and housing)

Voltage	20 to 36 VAC, 50/60 Hz
Power	80 watts, maximum
Power-on In-rush Current	3 A
Surge Protection	
Video	Series resistor of 3.9 Ω; low-capacitance Zener suppressor of 6.5 V, 1500 watts, 500 watts, 8/20 μsec impulse, 500 watts, 10 kA impulse rated gas tube
Manchester/SensorNet	Isolation transformer coupled, 2000 Vrms; PTC resettable fuse protects transformer; TVS rated at 5.6 V, 40 A, 0.1 joules, 8/20 μsec impulse, 500 watts, 10 kA impulse rated gas tube
RS-422	Series resistors of 33 Ω; TVS rated at 5.6 V, 40 A, 0.1 joules, 8/20 μsec impulse, 500 watts, 10kA impulse rated gas tube
Alarm Input	Series resistors of 33 Ω; TVS rated at 5.6 V, 40 A, 0.1 joules, 8/20 μsec impulse, 500 watts, 10 kA impulse rated gas tube
Power Line	TVS rated at 60 V, 250 A, 1.5 joules, 8/20 μsec impulse, 500 watts, 10 kA impulse rated gas tube
Auxiliary Output	1000 V isolation Form 1-C relay

## Mechanical

RHODUL-03, RHODUL-04	
Construction	
Enclosure	Aluminum
Sun Shade, Trim Ring,	
Top Cover	UV stabilized, polycarbonate
Color	Light gray
Height	321 mm (12.64 in)
Diameter	244 mm (9.61 in)
Bubble	Acrylic
Bubble Diameter	75.3 mm (6.93 in)
Weight	
Without Dome	2.6 kg (5.72 lbs)
With Dome	3.8 kg (8.36 lbs)
Shipping Weight of Housing	3.3 kg (7.26 lbs)
Mechanical Connection	1.5 in NPT

## RHODUL-03VR, RHODUL-04VR

Construction	
Enclosure	Aluminum
Sun Shade, Trim Ring,	
Top Cover	UV stabilized, polycarbonate
Sun Shade Cover	Aluminum with high gloss power coating
Color	Light gray
Height	321 mm (12.64 in)
Diameter	244 mm (9.61 in)
Bubble	High impact acrylic
Bubble Diameter	75.3 mm (6.93 in)
Bubble Cage	Stainless steel, painted flat black
Height	87.7 mm
Width	212 mm
Weight	
Without Dome	2.75 kg (6.06 lbs)
With Dome	3.95 kg (8.36 lbs)
Shipping Weight of Housing	3.45 kg (7.61 lbs)
Mechanical Connection	1.5 inch NPT

## Maximum Distances From Power Source

Dome and housing to be connected to a Class 2 LPS, 24 VAC, 80 VA power source (do not exceed maximum outdoor Class 2 ratings of 30 VAC, 100 VA).

	18 AWG	16 AWG	14 AWG
Low Line Voltage 102/204 VAC	60 m (200 ft)	100 m (320 ft)	160 m (520 ft)
Low Line Voltage 90/180 VAC	30 m (100 ft)	50 m (160 ft)	80 m (260 ft)

## Connectors (on integrated I/O board)

Manchester/SensorNet	Two-position 3.5 mm Euro-style terminal block
Video Output	Female BNC
RS-422	Four-position 3.5 mm Euro-style terminal block
Alarm Input	Two-position 3.5 mm Euro-style terminal block
Relay Contact Output	Three-position 3.5 mm Euro-style terminal block
	Normally Closed (NC) - pin 1
	Common (C) - pin 2
	Normally Open (NO) - pin 3
I/O Connector	Spring contact gold fingers for mate with SpeedDome Ultra housing/eyeball assemblies

## Environmental

Weatherproof Standard	NEMA 4/IP66
Operating Temperature	-40° to 50° C (-40° to 122° F)
Humidity	0 to 95% RH (non-condensing)
Storage Temperature	-10° to 50° C (14° to 122° F)
Wind Loading	Sustained winds of 240 km/hour (150 miles/hour) when properly installed and mounted (wall, pole, ceiling, and over-the-roof mount with proper support)

## Regulatory

Emissions	FCC: 47 CFR Part 15, Subpart B Class A CE: EN55022 Class B CE: EN6100-3-2 CE: EN6100-3-3 AS/NZS 3548, Class A CISPR22 ICES-003
Immunity	CE: EN50130-4
Safety	UL: UL1950 cUL: CSA 22.2 No. 950 CE: EN60950 IEC950

## Accessories

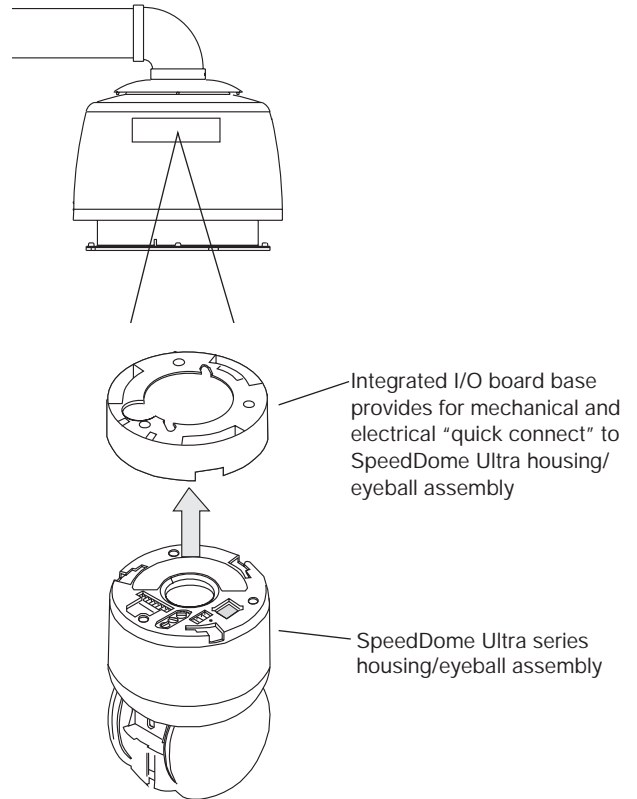
Code/J-Box Options	
AD1691	Code Distributor, AD Manchester, 120 V
AD1691F-1	Code Distributor, AD Manchester, 230 V
AD2091	Code Generator/Distributor, AD Manchester, 120 V
AD2091-1	Code Generator/Distributor, AD Manchester, 230 V
AD2083-02B	Code Distributor, SEC RS-422, 120 V
AD2083-02B-1	Code Distributor, SEC RS-422, 230 V
RJ1SNUD	J-Box, Indoor/Outdoor, 1-Position, SensorNet, 120 VAC
RJ1SNUD-1	J-Box, Indoor/Outdoor, 1-Position, SensorNet, 230 VAC
RJ856UD	J-Box, Indoor/Outdoor, 1-Position, RS-422, 120 VAC
RJ856UD-1	J-Box, Indoor/Outdoor, 1-Position, RS-422, 230 VAC
RJ6SN*	J-Box, Indoor 6-Position SensorNet 485, 120/230 VAC
RJ860AP**	J-Box, Indoor 10-Position RS-422, 120 V
RJ860AP-1**	J-Box, Indoor 10-Position RS-422, 230 V

\* Supports up to 2 housings/domes

\*\* Supports up to 5 housings/domes

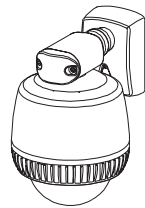
## Compatible Housing/Eyeball Assemblies

SpeedDome Ultra Series

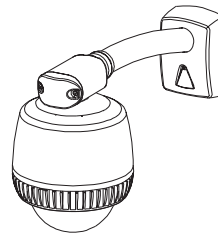


**Dome Installation**  
(typical)

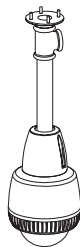
MOUNTS AND ADAPTERS



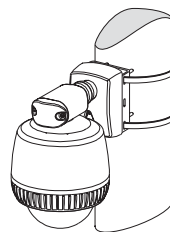
**RHOSW**  
Indoor/Outdoor  
Short wall mount  
with end cap assembly



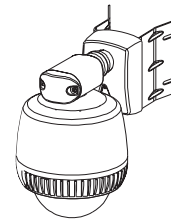
**RHOLW**  
Indoor/Outdoor  
Long wall mount  
with end cap assembly



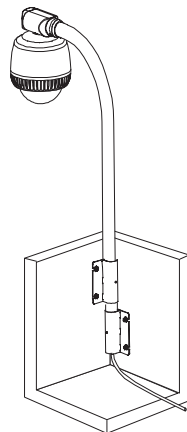
**RHOPN**  
Outdoor pendant mount



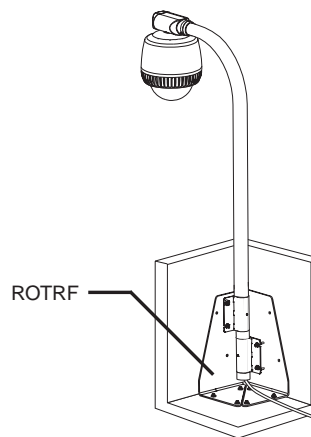
**RHOWPA**  
Indoor/Outdoor Pole  
strap adapter for  
RHOSW and  
RHOLW



**RHOWCA**  
Indoor/Outdoor Corner  
bracket adapter for  
RHOSW and  
RHOLW



**RHOTR**  
Outdoor Over-the-roof  
mount with end cap  
assembly



**ROTRF**  
Outdoor Floor adapter  
for RHOTR