

Aritech CyberDomes



Aritech can also supply a full range of CCTV equipment including cameras, lenses and monitors.

There is a complete range of **multiplexers** from 4 channel simplex up to 16 channel duplex, along with VCRs to record the images.

Aritech dome cameras, **CyberDomes**, are amongst the best and most reliable products in today's market. With choices of camera module and functional specification, there is an Aritech CyberDome and control system to meet your requirements.

Using the latest **digital technology**, Aritech is able to supply a range of digital multiplexer recorders with their own internal hard drive on which to store images for future retrieval. By using the well proven multiplexer technology and combining it with advanced digital designs, Aritech is able to remove the need for outdated VCRs and their inherent operational drawbacks.

The latest addition to the Aritech digital range is the first true **digital VCR** replacement, this removes the need for expensive tape handling and head replacement, while giving higher quality recorded images than is possible with a standard time lapse VCR.

High specification **video matrix** and controllers from our extensive range enable the larger system requirements to be met.

For details of these and any other CCTV products, please consult your local Aritech Sales Office.



CyberDomes and Systems



Patrolled by Aritech

The Aritech range of CyberDomes is not only discrete, compact and aesthetically pleasing, they are also extremely versatile. First choose the housing and fixing method, then the dome cover finish and finally the camera and pan/tilt module that is the most suitable for your application.

Versatility does not stop here, there are many ways to control your Aritech CyberDome, from a single unit with its dedicated keypad, up to 32 cameras controlled by a sophisticated video matrix system with multiple operators in different locations.



Aritech has combined the most desirable features that are essential in a modern surveillance system to create the CyberDome range of dome cameras.

Choice

The range has been assembled in such a way as to allow the choice of product, which will meet the demands of today's surveillance system requirements.

Dome finish

Choose from clear, tinted, chrome or gold¹. Designed to blend in with the surrounding décor or to discretely hide the camera pan/tilt module.

Housing options

Aritech CyberDomes has a range of housings to meet today's most demanding surveillance system requirements.

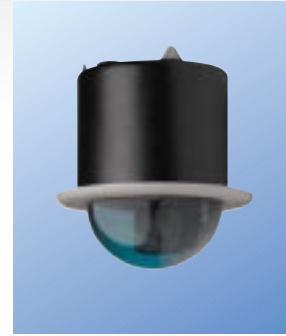
Choose from the Indoor Flush mount, Pendant mount, Pendant CyberMount or for those "rugged" applications, the 8 inch Heavy Duty.

All the housings are easy to install with simple twist-on dome attachments². Camera pan/tilt assemblies are easily removed as a single unit by use of the quick release connector.

1. Heavy Duty domes only available with clear and smoke finishes.
2. Heavy Duty does not twist on.



Next choose from a range of 4 housing and mounting options



6 inch Indoor Flush mount

Ideal in limited space, aesthetically pleasing, the majority of the dome is hidden behind the ceiling.



7 inch Pendant mount

Allows a CyberDome to be mounted from a ceiling or pole. As this model is weather resistant, it can be used indoors or outdoors. When used outdoors, it is recommended that the optional heater and fan is used.



7 inch Pendant CyberMount

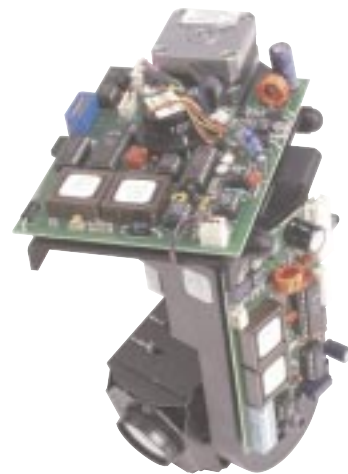
This option features the Pendant mount housing supplied with an integrated wall mount bracket, which allows fixing to walls or corners. As this model is weather resistant, it can be used indoors or outdoors. When used outdoors, it is recommended that the optional heater and fan is used.



8 Inch Heavy Duty

The most robust housing in the range, designed for installation where it might be subjected to vandalism or physical abuse. It has a thick aluminium upper body and an impact resistant acrylic dome, it is ideal for use in prisons or car parks. As this model is weather resistant, it can be used indoors or outdoors. When used outdoors, it is recommended that the optional heater and fan is used.





Camera pan/tilt modules

Aritech CyberDome Select 18x

Aritech CyberDome Select is a high-speed surveillance dome system designed for applications that require an affordable solution.

The CyberDome Select HR is equipped with an integrated 1/4" CCD colour camera sensitive to 2 lux, an 18x autofocus zoom lens, and a built in receiver.

Standard features include, 4x digital zoom, auto iris with manual override, auto or manual focus, 32 programmable presets, 16 preset titles and auto return to tour, home or autopan.

It is also equipped with ShadowTour, a learned tour that allows the operator to programme and retain up to four minutes of manual operation.

Other standard features include, 32 programmable presets, 16 on-screen preset titles, automatic response to alarms at speeds up to 400 deg/sec and manual control of speeds up to 120 deg/sec.

Once installed, ShadowTour, presets, and other options can be programmed remotely from the keypad.

Choice of module functions

- Presets x 64
- Titling 16 characters
- Manual and auto PTZ control
- Up to 25x optical zoom
- Optional up to 12x programmable electronic zoom
- Tour facility - 4 camera tours
- Quick spin - useful for tracking movement

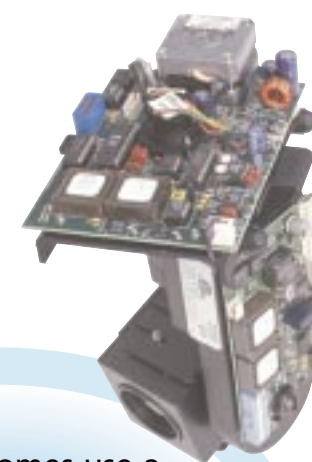
Aritech CyberDome Classic

Aritech CyberDome Classic is a discrete variable speed dome system, which uses an integrated monochrome camera with a 16x optical zoom lens and up to an 8x digital zoom facility.

The Monochrome camera is sensitive down to 0.1 lux.

Other features include auto iris with manual override, auto or manual focus, backlight compensation, 64 programmable preset positions, preset and zone titling, and up to four camera tours.

16 on-screen preset titles, automatic response to alarms at speeds up to 400 deg/sec and manual control of speeds up to 120 deg/sec are also available with CyberDome Classic.



All CyberDomes use a 24vAC power input and are controlled via twisted pair cable, RS 422, by one or more Aritech keypads.

Aritech CyberDome Day/Night 18x and CyberDome Day/Night 25x

With its integrated colour and monochrome camera, CyberDome Day/Night is Aritech's most advanced high-speed surveillance dome.

In daylight it functions as a colour camera sensitive to either 2 or 3 lux dependant on the model chosen. At night when the light level drops below a user defined setting, it automatically removes an IR cut filter, allowing it to function as a monochrome camera with a 0.2 lux sensitivity.

Electronic shutter control also increases low light sensitivity. By reducing the shutter speed from 50 frames per second to 4 frames per second, the Day/Night's camera becomes 15 times more sensitive to light. This temporarily enhances images in low light conditions.

The camera modules have either an 18x or 25x optical zoom lens with a selectable 12x digital facility, auto iris, autofocus and backlight compensation. The four camera tours include the ShadowTour facility, a learned tour that allows the user to programme up to four minutes of manual operation.

The auto-return feature allows the user to set a time limit of control inactivity before automatically sending the CyberDome to either home position, return to tour or autopan.

The benefit of this feature is that areas of security interest can no longer be accidentally removed from surveillance, following manual control of the CyberDome.

Dome and system control

Keypads

ATD-300 KEYBOARD multi speed



This keyboard is a lower cost option to the ATD-405, but, offers virtually all the same functionality. It is physically smaller and can be used in multiple or stand-alone configurations. It is totally compatible with the ATD-405 keypad and can be linked in a slave position(s).

Variable speed is limited since there is no joystick control. However, 3 different fixed speed levels of the CyberDomes are selectable.

ATD-405 KEYBOARD variable speed



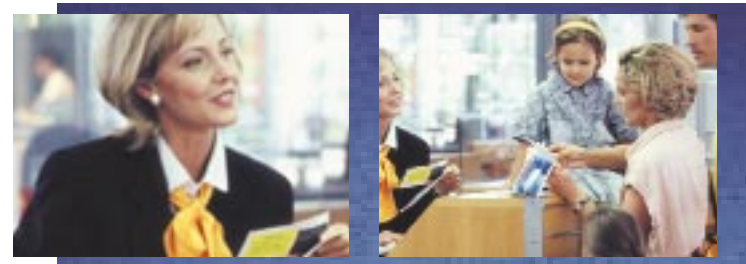
All the programming parameters available on the Aritech CyberDome such as titling, presets, speeds, tours, camera functions, etc are easily undertaken with the ATD-405 Keypad.

Precise operational control of the CyberDome is made easy by the ergonomically designed keypad. The joystick allows fine movement of the camera at full zoom for example and the on board LCD displays the current status.

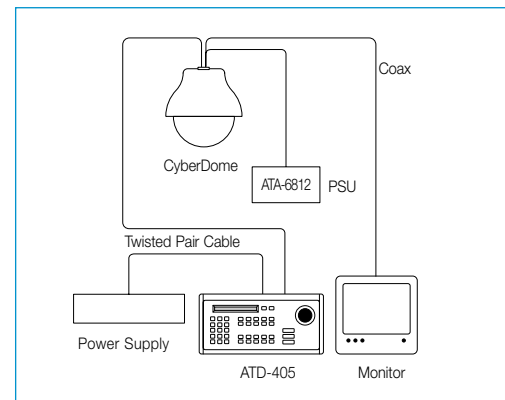
Typically up to 32 cameras and 8 monitors can be programmed and controlled by the ATD-405 via an RS422 signal carried by twisted pair cable (though more cameras and monitors are possible but are usually limited by the size of the accompanying matrix switcher).

Multiplexer view control is available enabling the keypad to address a number of multiplexers and select the output views from each. A small interface module, ATD-93 is required per multiplexer.

A number of ATD-405 keypads can be linked together for multiple control positions applications.

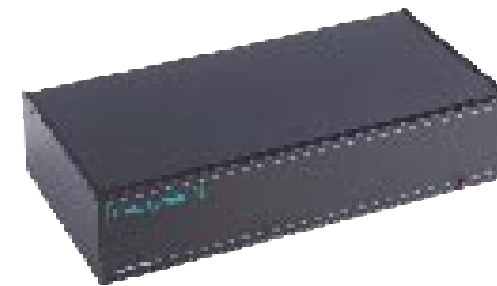


Typical application Integration made easy



System Control

CROSSPOINT 32 MATRIX SWITCHER



For the situation where multiple domes and monitors are required there are three switcher configurations available to order.

They are the 16 x 4 (ATD-348-164LT), the 32 x 4 (ATD-348-324LT) and the 32 x 8 (ATD-348-328LT).

However both the ATD-348-164LT and ATD-348-324LT are expandable to the maximum 32 x 8 configuration.

Each unit has looping inputs for video signals via coax, programmable RS 422 control and up to 32 alarm inputs.

ATD-93 MULTIPLEXER INTERFACE



The ATD-93 is a compact interface module that allows remote multiplexer and VCR control from the ATD-300 and the ATD-405 keypads. An ATD-93 is required for each multiplexer or VCR used in an Aritech Digiplex system. The unit receives an RS422 or RS232 input, and provides an RS232 or analog output.

The ATD-93 is programmable to address the following multiplexer brands:

- Note: Check with Aritech prior to order on compatibility**
- Robot
 - Vision Factory
 - Sanyo
 - Vicon
 - Burle
 - Gyyr
 - VRC
 - Digispec
 - Dedicated Micros
 - Tecton



ATD-415PLT Alarm Unit

Designed for accepting up to 16 alarm inputs and transmitting preset commands directly to the cyberDome. The module is generally installed local to the dome.

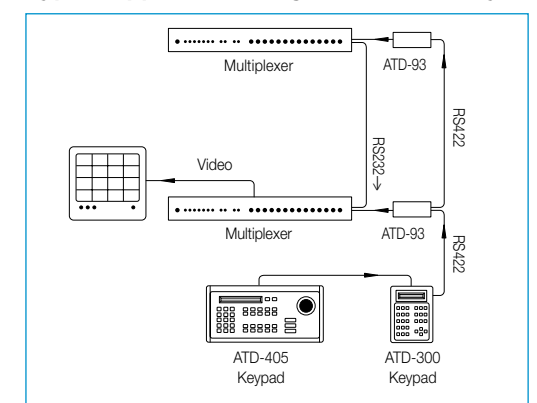


ATD-83 Data Signal Distributor

Used in the system when RS-422 Control Signal must be distributed in more than one direction. Control signal is distributed as six separate outputs, each of which can be daisy chained to one or more receivers, or re-distributed again via other ATD-83s.

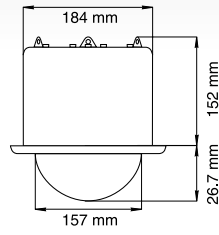


Typical application Integration made easy

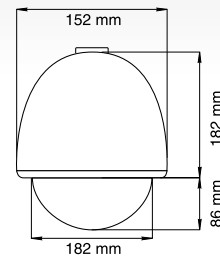


Surveillance System CyberDome Technical Specifications

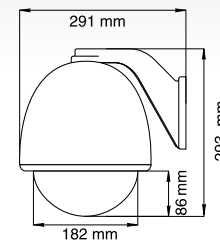
Indoor flush housing



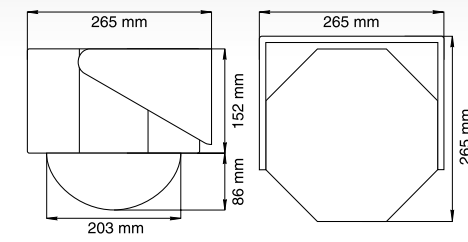
Indoor pendant housing



Outdoor pendant housing



CyberDome HD™





OPERATIONAL	CyberDome Classic Black/White	CyberDome Select 18x Colour	CyberDome Day / Night 18x Colour / Monochrome	CyberDome Day / Night 25x Colour / Monochrome
Pan travel	360°	360°	360°	360°
Tilt travel	90°	90°	90°	90°
Manual speed	0.5° - 120°/sec variable	0.5° - 120°/sec variable	0.5° - 120°/sec variable	0.5° - 120°/sec variable
Preset speed	Up to 400° per second, 200°/sec average point to point	Up to 400° per second, 200°/sec average point to point	Up to 400° per second, 200°/sec average point to point	Up to 400° per second, 200°/sec average point to point
Preset seek time	Less than 2 seconds	Less than 2 seconds	Less than 2 seconds	Less than 2 seconds
Light loss	Smoked Dome=1/2 F-stop, Tinted Dome=1 F-stop, Mirrored=2 F-stops	Smoked Dome=1/2 F-stop, Bronze Dome=1 F-stop, Mirrored Dome=2 F-stops	Smoked Dome=1/2 F-stop, Tinted Dome=1 F-stop, Mirrored=2 F-stops	Smoked Dome=1/2 F-stop, Tinted Dome=1 F-stop, Mirrored=2 F-stops
CAMERA				
Signal Format	PAL	PAL	PAL	PAL
Scanning system	2:1 interlacing	2:1 interlacing	2:1 interlacing	2:1 interlacing
Horizontal frequency	15.625 kHz PAL	15.625 kHz PAL	15.625 kHz PAL	15.625 kHz PAL
Vertical frequency	50 Hz PAL	50 Hz PAL	50 Hz PAL	50 Hz PAL
Image sensor	1/4" Solid state interline transfer CCD image sensor	1/4" Solid state interline transfer CCD image sensor	1/4" Solid state interline transfer CCD image sensor	1/6" Solid state interline transfer CCD image sensor
Lens	F1.6, f = 4~64mm, 16 x zoom, auto focus	F1.4, f = 4.1~73.8mm, 18 x zoom, auto focus	F1.4, f = 4.1~73.8mm, 18 x zoom, auto focus	F1.6 to F2.7, f = 2.4~60mm, 25 x zoom, auto focus
Digital zoom	Programmable 2x - 8x	Programmable 1x or 4x	Programmable 1x - 12x	Programmable 1x - 12x
Angle of view	H: 47° (wide) ~ 4° (tele)	H: 48° (wide) ~ 2.7° (tele)	H: 48° (wide) ~ 2.7° (tele)	H: 48° (wide) ~ 2.7° (tele)
Focus length	Inf. ~ 0.01m (wide) ~ 1.0m (tele)	Inf. ~ 0.01m (wide) ~ 1.0m (tele)	Inf. ~ 0.01m (wide) ~ 1.0m (tele)	Inf. ~ 0.01m (wide) ~ 1.0m (tele)
Synchronisation	Internal, line lock	Internal/external	Internal / External	Internal / External
Horizontal resolution	500 lines BW	460 TV lines PAL	460 TV lines	460 TV lines
Signal to noise ratio	> 46 dB	> 50 dB	> 50 dB	> 48 dB
Sensitivity	0.1 Lux	2 Lux	2 Lux colour, 0.1 Lux monochr.	2 Lux colour, 0.1 Lux mono.
Usable sensitivity	0.08 Lux			
Video output	Composite, 1.0 V (p-p)	Composite, 1.0 V (p-p)	Composite, 1.0 V (p-p)	Composite, 1.0 V (p-p)

ELECTRICAL	6"	7"	8"HD
Input Voltage	24V AC 60 Hz (50Hz PAL Option)		24V AC 50Hz
Power	16 VA	16VA	16VA
Control Signal	RS422		
Video Output	Composite, 1Vp-p		
CONNECTORS			
Video	BNC		
Power & Control	Two-position terminal strip		
MECHANICAL			
Weight	2.5 kg	2.5 kg	7.2 kg
Dimensions	See illustration		
CONSTRUCTION			
Pan/Tilt	3 mm Aluminium/Delrin frame		
Flush housing (6")	3 mm Fire retardant ABS plastic		
Pendant housing (7")	5 mm ABS plastic		
HD housing (8")			5 mm Alum.
Dome	1.5 mm	1.5 mm	4 mm acrylic
FINISH			
Pan/Tilt camera	Black		
Indoor housing	Grey		
Outdoor housing	Grey		
HD housing	Neutral grey		
Camera	Black		
Dome	Clear, bronze, smoke, chrome mirrored or gold mirrored		



Keypads & Matrix Switchers Technical Specifications



Keypads Technical Specifications	ATD-300 KEYPAD	ATD-405 KEYPAD
ELECTRICAL		
Input Voltage	12V DC	9V AC or 12 V DC
Input power	3.3V A	5V A
Input data signal	RS422	RS422
Output data signal	RS422	RS422 + RS 485
CONTROLS	Momentary push buttons	Momentary push buttons, Variable speed joystick
DISPLAY	20 x 2 Character liquid crystal display, (LCD) with back lighting	22 x 2 Character liquid crystal display, (LCD) with back lighting
CONNECTION	RJ-45 Modular phone jack	RJ-45 Modular phone jack
MECHANICAL	Weight: 0.43 kg Construction: High impact injection molded, ABS plastic, Colour: grey	Weight: 1 kg Construction: Aluminium with ABS plastic end caps, Colour: grey

ATD-348-164/324/328 Matrix Switchers Technical Specifications		
ELECTRICAL	Input Voltage	12V DC or 9V AC
	Input power	15.5V A
VIDEO	Inputs	16 or 32
	Outputs	4 or 8
	Bandwidth	32 MHz at -1.5 dB, 50 MHz at -3 dB
	Signal/Noise	-60 dB (RMS rel. 1V (p-p))
	Gain	0 dB ± 1 dB
	Impedance	75 ohm, input and outputs
CONNECTIONS	Alarms RS232, RS422	Removable barrier strips
	Power	Two conductor 5mm coaxial jack
	Video	BNC connectors
MECHANICAL	Weight	5 kg
	Material: Top-Bottom	18 ga. C.R.S.
	Mat.: Front-Side panels	Black anodized aluminium

Dome and System Control











INDOORS TYPE	DOME FINISH	PAN/TILT&ZOOM				FIXED CAMERA (not supplied)	HOUSING ONLY Smoked
		CLASSIC B/W	SELECT 18x COLOUR	DAY/NIGHT 18x COL/MONO	DAY/NIGHT 25x COL/MONO		
6" Indoor Flush-Mount	Smoked	ATA-F4-B2C	ATA-F4-H2C	ATA-F4-D2C	ATA-F4-E2C	ATA-LF-4	ATA-F4-OC *
7" Indoor Pendant-Mount	Smoked	ATA-H4-B2C	ATA-H4-H2C	ATA-H4-D2C	ATA-H4-E2C	ATA-LH-4	ATA-H4-OC *
7" Indoor Pendant-Cybermount	Smoked	ATA-C4-B2C	ATA-C4-H2C	ATA-C4-D2C	ATA-C4-E2C	ATA-LC-4	ATA-C4-OC *
8" Indoor Heavy-Duty	Smoked	ATA-D4-B2C	ATA-D4-H2C	ATA-D4-D2C	ATA-D4-E2C	ATA-LD-4	ATA-D4-OC *

OUTDOORS TYPE	DOME FINISH	PAN/TILT&ZOOM				FIXED CAMERA (not supplied)	HOUSING ONLY Smoked
		CLASSIC B/W	SELECT 18x COLOUR	DAY/NIGHT 18x COL/MONO	DAY/NIGHT 25x COL/MONO		
7" Outdoor Pendant-Mount with Heater and Fan	Smoked	ATA-HE4-B2C	ATA-HE4-H2C	ATA-HE4-D2C	ATA-HE4-E2C	N/A	ATA-HE4-OC *
7" Outdoor Pendant-Cybermount with Heater and Fan	Smoked	ATA-CE4-B2C	ATA-CE4-H2C	ATA-CE4-D2C	ATA-CE4-E2C	N/A	ATA-CE4-OC *
	Clear	ATA-CE3-B2C	ATA-CE3-H2C	ATA-CE3-D2C	ATA-CE3-E2C	N/A	
8" Outdoor Heavy-Duty with Heater and Fan	Smoked	ATA-DE4-B2C	ATA-DE4-H2C	ATA-DE4-D2C	ATA-DE3-E2C	N/A	ATA-DE4-OC *
	Clear	ATA-DE3-B2C	ATA-DE3-H2C	ATA-DE3-D2C	ATA-DE4-E2C	N/A	

* Accepts P/T mechanism or ATA-03-6 fixed camera bracket

Note: Other dome configurations are available, please consult your local Aritech office for details.

ACCESSORIES	Swing Mount ATA-21	Ceiling Panel ATA-22-6	Ceiling Ring ATA-23-6	T-Bar Support Kit ATA-24-6	Corner-Mount Adapter ATA-25	Pole-Mount Adapter ATA-26
6-inch Flush-Mount						
6-inch Flush-Mount		•	•	•		
7-inch Pendant-Mount	•					
7-inch Pendant-CyberMount					•	•
8-inch Heavy-Duty					•	•
	Roof-Mount Adapter ATA-27	Parapet Capping Adapter ATA-28 & ATA-29		Heater and Fan E Option	Single Output Power Supply 24VAC/3Amps ATD-6812-PSU	
6-inch Flush-Mount						
6-inch Flush-Mount						•
7-inch Pendant-Mount				•		•
7-inch Pendant-CyberMount	•		•	•		•
8-inch Heavy-Duty	•		•	•		•