MISTRAL

INTEGRATED P&T DOME CAMERA

- Attractive, compact, surface-mount design
- Wide dynamic range camera
- Robust variable speed pan-tilt mechanism
- 200°/s (max) preset acquisition
- Telemetry control over twisted pair
- Inbuilt active twisted pair video transmitter
- Multiprotocol

The MISTRAL mini-dome integrates a robust variable speed pan-tilt mechanism with a high performance DSP colour camera. Its small elegant form makes it the ideal camera for indoor surveillance applications. MISTRAL fits unobtrusively within any decor and provides crisp full-colour images.

Truly effective surveillance systems provide both good quality pictures and maximum deterrence of would-be felons. MISTRAL excels in both areas, providing unsurpassed detailed images and maximum deterrence because it is readily identifiable as a camera and yet, unlike traditional fixed cameras, observers are unsure exactly where it is pointed.

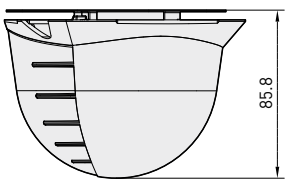
State-of-the-art variable speed drives for pan and tilt allow operators to manually follow activity whether it be moving at 0.5° or 40° per second. When used with DCT and DCJ controller keyboards (or DCTEL and DCIR), MISTRAL will move to any of 32 preset positions at up to 200° per second making it ideal for use in verifying alarms or for access control applications.

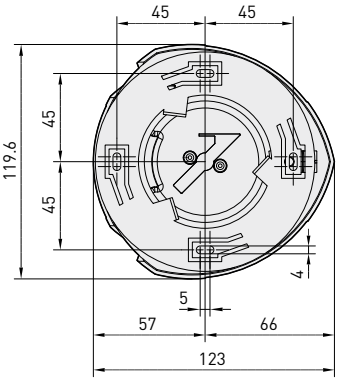
MISTRAL is the cost effective choice for those applications where cameras are required to be occasionally realigned to oversee temporary displays or moveable exhibits in galleries, hotel and office foyers, showrooms and department stores.

Integrating MISTRAL minidomes within older systems as a replacement for existing cameras or as a system extension could not be easier. MISTRAL domes are ready to connect to both traditional coaxial based wiring systems utilizing RS485 telemetry or connect them directly with CAT-5 structured cabling systems. The inbuilt active twisted pair transmitter ensures optimal signal quality over twisted pair cabling and is directly installable with Videotec receivers TW series.

Installation is a fast and simple process. Secure the mounting plate to any stable ceiling surface using the provided fixings. Connect the prepared cabling to the dome and attach the safety lanyard. Set the DIP switches in the base for the appropriate address and video transmission format, and eventual telemetry protocol. Snap the dome to the mounting plate and twist it to centre the field of view.

MISTRAL domes are factory prefocused to give sharp images of objects 1.5m to infinite from the camera. MISTRAL integrated P&T dome cameras are standard supplied with a 8mm or a 6mm lens, in NTSC or PAL format, and a smoked bubble, optionally a transparent clear bubble is available.





The values are in millimeters.

MISTRAL
INTEGRATED P&T DOME CAMERA

TECHNICAL DATA

GENERAL
Surface mount, directly on ceiling
Lower semitransparent black half sphere dome, optional transparent
Supplied with instruction manual, pigtail break-out cable, snap-fix mounting plate

MECHANICAL
External dimensions (ØxH): 120x85mm (4.72x3.34in)
Pan range: ±90° (180°)
Tilt range: +10 to -90° (100°)
Pan & tilt speed 200°/s max (preset calls), 0.5 ~ 40°/s (joystick control)
Presets: 32 (non-volatile memory)
Standard patrol function
Preset accuracy: ±0.1°
Design MTBF: >500.000 targeting operations
I/O connector RJ-45 (includes pigtail cable for local power & coaxial video cabling

ELECTRICAL
Camera
Image system: 1/4" CCD interline field accumulation
Video format: PAL or NTSC (colour)
Horizontal resolution (min.): 460 TV-lines
S/N ratio: 48dB (with AGC OFF)
Minimum illumination: 1.0Lux, (50% video output level, AGC ON, F1.4)
AGC: On (preset)
ELC: On (preset)
BLC: On (preset)
White balance: ATW (preset)
Synchronization: Internal synchronization
Video output: 1Vpp unbalanced composite signal, 2Vpp balanced composite signal

Lens
Focal length: Standard lens 8.0mm, Wide lens 6.0mm
Horizontal angle of view: Standard 25.5°, Wide 34.0°
Vertical angle of view: Standard 18.9°, Wide 25.4°
Aperture: Standard F2.8, Wide F2.8
Power requirements: IN 12/24V DC or 12/24V AC, 50/60Hz
Power consumption: 4.5W max

ACCESSORIES
OMDPSWR	Wide range power supply IN 90-240V AC, OUT 12V DC, 1A

COMMUNICATIONS
Serial RS485 input for direct control by DCJ and DCT (DCTEL and DCIR) keyboards for a max distance of 1200m (3937ft) or through video matrix SM series
Serial RS422 input
Up to 127 addressable units

PROTOCOL
MACRO 9600 baudrate
PELCO D 2400 baudrate
VICON 4800 baudrate

Pelco D e VICON are registered trademarks.

RELATED PRODUCTS
SM42A-82A	Matrix 4/8 input and 2 output
SM84A-164A	Matrix 8/16 input and 4 output
SM328A	Matrix 32 input and 8 output
DCTEL	Matrix and Telemetry Control Keyboard(variable speed not available)
DCIR	Infrared Remote Control (variable speed not available)
DCJ	Matrix, Mux and Telemetry Control Keyboard with three axis joystick
DCT	Matrix, Mux, DVR and Telemetry Control Keyboard touch screen equipped with three axis joystick
TWRB1	Twister pair video receiver 12V DC/24V AC, in IP56 box
TWRB1A	Twister pair video receiver 230V AC, in IP56 box
TWRR1	Twister pair video receiver 12V DC/24V AC, on Europe card for rack

ENVIRONMENT
Indoor
Operating temperature 0°C / +45°C (-32°F / +122°F)
Humidity: 90% max (operating), 95% max (storage)

COMPLIANCE TO
CE according to EN 61000-3-3, EN 61000-3-2, EN 60065, EN 55022 Class B, EN 50130-4
FCC according to Part. 15 Class B

SPARE PARTS LIST
OMDIPLEXT	Transparent bubble
OMDIPLEXF	Smoked bubble

Unit Weight:	Package Weight:	Package Dimension (BxHxL):	Master Carton:
MISTRAL 0.4kg / 0.9lb	**MISTRAL** 0.8kg / 1.7lb	**MISTRAL** 24x12.4x16.5cm / 9.5x4.9x6.5in	**MISTRAL** 20 units

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MISTRAL

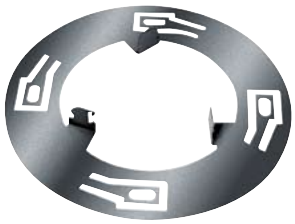
Model	Standard	8 mm lens	6 mm lens	Smoked glass	Transparent glass
MDI008FC001P	PAL	•		•	
MDI006FC001P	PAL		•	•	
MDI008FC001N	NTSC	•		•	
MDI006FC001N	NTSC		•	•	
MDI008TC001P	PAL	•			•
MDI006TC001P	PAL		•		•
MDI008TC001N	NTSC	•			•
MDI006TC001N	NTSC		•		•

HEIGHT ON SCREEN AT DIFFERENT DISTANCES

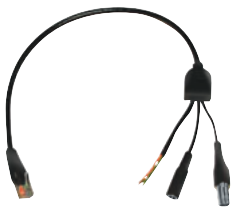
	Object distance m / ft		MDI008FC001 (8mm lens)	MDI006FC001 (6mm lens)
1,6 m tall object at distance of:	2	6.5	239%	178%
1,6 m tall object at distance of:	4	13.1	120%	89%
1,6 m tall object at distance of:	6	19.6	80%	59%
1,6 m tall object at distance of:	8	26.2	60%	44%
1,6 m tall object at distance of:	10	32.8	48%	35%
1,6 m tall object at distance of:	12	39.3	40%	30%
1,6 m tall object at distance of:	14	45.9	34%	25%

CAMERA SELECTION GUIDELINES

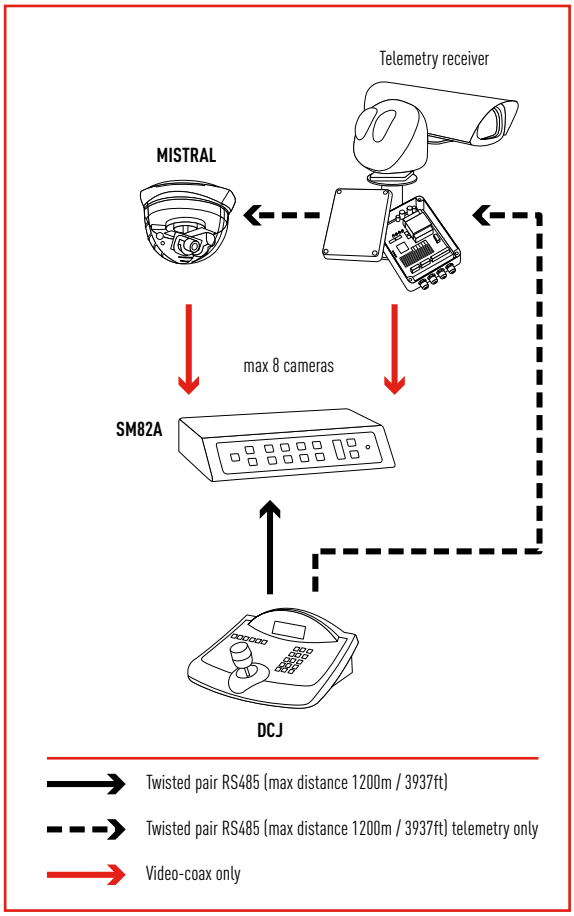
Model	Object distance m / ft		Horizontal m / ft		Vertical m / ft	
FIELD OF VIEW (8MM LENS)						
MDI008FC001	2	6.5	0,91	2.98	0,67	2.19
MDI008FC001	4	13.1	1,81	5.93	1,33	4.36
MDI008FC001	6	19.6	2,72	8.92	2,00	6.56
MDI008FC001	8	26.2	3,62	11.87	2,66	8.72
MDI008FC001	10	32.8	4,53	14.86	3,33	10.92
MDI008FC001	12	39.3	5,43	17.81	3,99	13.09
MDI008FC001	14	45.9	6,34	20.80	4,66	15.28
FIELD OF VIEW (6MM LENS)						
MDI006FC001	2	6.5	1,22	4.00	0,90	2.95
MDI006FC001	4	13.1	2,45	8.03	1,80	5.90
MDI006FC001	6	19.6	3,67	12.04	2,70	8.85
MDI006FC001	8	26.2	4,89	16.04	3,61	11.84
MDI006FC001	10	32.8	6,11	26.11	4,51	14.79
MDI006FC001	12	39.3	7,34	24.08	5,41	17.74
MDI006FC001	14	45.9	8,56	28.08	6,31	20.70

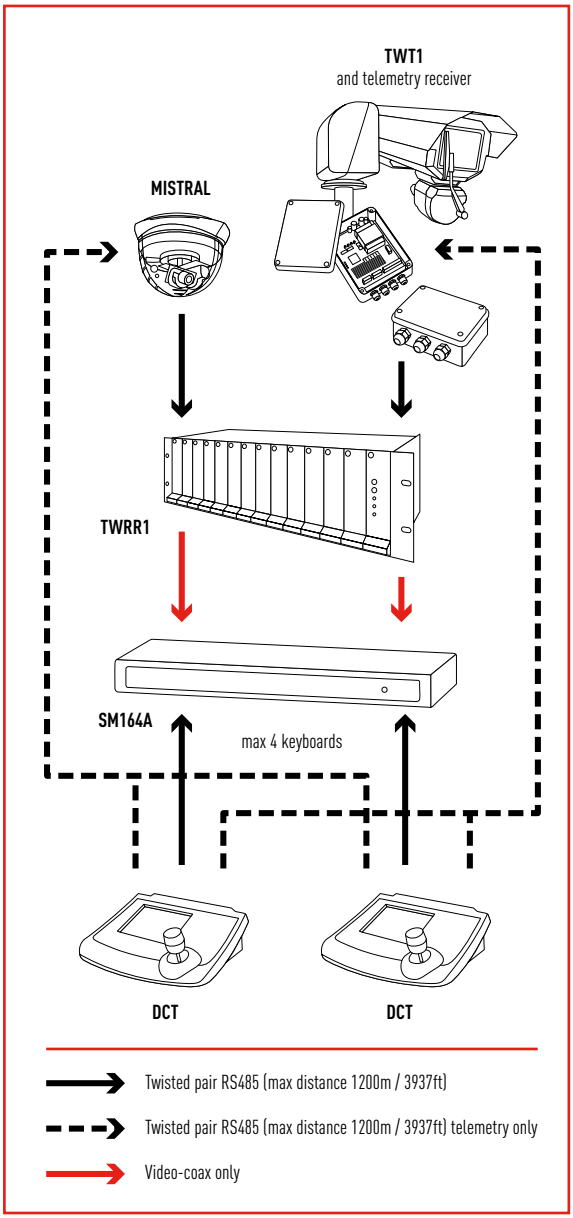


Mounting plate



Cable for power supply, video and telemetry





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