



MAXIMUS MPX ATEX Day / Night Camera

Protection mode:

Type of protection:	II 2 G Ex d IIC T6 Gb II 2 D Ex tb IIIC T85°C Db
Class of temperature:	T6
Protection degree:	IP66
Ambient Temp :	-40/+60°C
Zones :	1-2-21-22



Description:

The MAXIMUS ex-proof PTZ cameras ensure excellent performance for monitoring critical processes in areas with risk of explosion, such as refineries, gas pipelines, oil tankers, offshore platforms, industrial processes, chemical industries, etc...

The area is always monitored, thanks to the speed and detection accuracy of the target.

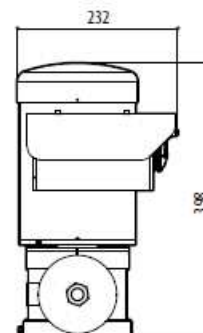
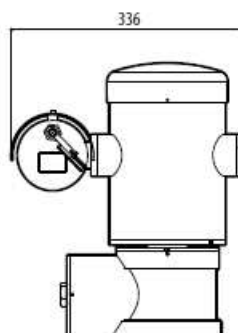
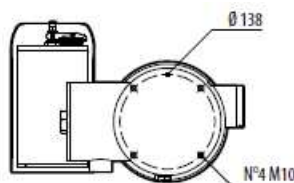
Made of AISI316L stainless steel, which is excellently resistant to UV rays, salt mist and air pollution. All models are available in analog or IP version.

The flexible operator control of pan/tilt/zoom functions allows the video transmission over the local area network (LAN) or over the Internet with the H.264/AVC compression, compatible with ONVIF Profile S.



Features :

- Electropolished AISI 316L stainless steel explosion proof PTZ camera unit 3/4" NPT threaded hole for use of cable glands or conduit.
- Variable speed: 0.1°-100°/s Pan and Tilt
- Extremely easy electrical connections directly into the unit, thanks to the explosion-proof inspection box
- Day/Night camera:
 - True Progressive Scan
 - High resolution: up to 550 TVLines
 - Advanced image stabilizer (Stable Zoom Mode)
 - Day/Night (Auto ICR: automatic removal of IR filter)
- Up to 2 simultaneous video streams
- Position accuracy: 0.02°
- Integrated wiper



Options :

- IP based control, H.264/AVC and JPEG, 25fps, Full D1 (compatible with ONVIF protocol, Profile S)
- Prewired certified versions with unarmored cable/barrier cable gland (except for UL versions)



MAXIMUS MPX ATEX Day / Night Camera

Technical data :

GENERAL

AISI 316L stainless steel construction
Passivated and electropolished external surfaces
Quick configuration and setup
Dynamic positioning control system

MECHANICAL

1 3/4" NPT hole for cable glands
Zero backlash
Horizontal rotation: 360° continuous
Vertical rotation: -90° to +90°
Horizontal speed (variable): from 0.1° to 100°/s
Tilt speed (variable): from 0.1° to 100°/s
Preset accuracy: 0.02°
12mm thick tempered glass window
Integrated wiper
Unit weight: 27kg (60lb)

ELECTRICAL

Power supply/Current consumption:
• 230Vac, 0.5A, 50/60Hz
• 24Vac, 5A, 50/60Hz
• 120Vac, 1A, 50/60Hz
Power consumption:
• 120W max
1 video output 75 Ohm 1Vpp (PAL/NTSC)
Functions: Autopan, Preset, Patrol, Tour (maximum 3),
Autoflip
Maximum number of presets for protocol
• VIDEOTEC MACRO: 250
• ERNITEC: 250
• PANASONIC: 250
• PELCO D: 99
• AMERICAN DYNAMICS: 95
16-character string for zone and preset titling
I/O alarm card:
• 5 alarm inputs
• 2 relay outputs (1A 30Vac/60Vdc max)

COMMUNICATIONS

Configuration through OSD
2 half-duplex serial RS-485 interfaces or full-duplex RS-422
Firmware updating from console in remote mode (only
VIDEOTEC MACRO and PELCO D protocols)
Up to 999 units, addressable by means of dip-switches
MPX, IP based control mode:
• Connection Ethernet port LAN 10/100T
Optical connector: ST (standard)
IP MPEG4 control mode:
• Compression MPEG-4/MJPEG
• Image resolution: Full D1 (720x576), VGA (640x480), CIF
(352x288)
• Image frame rate max 25fps at Full D1
• Web Server
IP based control mode, H.264/AVC:
• Compression H.264/AVC and JPEG
• Two independent video streams
• Image resolution: from Full D1 (720x576 for PAL, 720x480
for NTSC) to 352x240 in 18 steps
• Web Server
• Compatible with ONVIF protocol, Profile S

PROTOCOLS

Serial communication protocol: AMERICAN DYNAMICS,
ERNITEC, PANASONIC, PELCO D, VIDEOTEC MACRO

ENVIRONMENT

Indoor/Outdoor
Operating temperature: -40°C (-40°F)/+60°C (140°F)
Surge immunity: up to 2kV line to line, up to 4kV line to earth
(Class 4)

CERTIFICATIONS

ATEX (EN 60079-0: 2012, EN 60079-1: 2007, EN 60079-31:
2009):
EX II 2 G Ex d IIC T6 Ta -40°C to +60°C Gb
EX II 2 D Ex tb IIIC T85°C Ta -40°C to +60°C Db
IP66

IECEX (IEC 60079-0: 2011, IEC 60079-1: 2007, IEC 60079-
31: 2008):
Ex d IIC T6 Ta -40°C to +60°C Gb
Ex tb IIIC T85°C Ta -40°C to +60°C Db
IP66

EAC EX:
Ex d IIC T6 Gb X
Ex tb IIIC T85 Db X

CNEx (IP versions only with encoder MPEG4 -
MPX...X000A):
Ex d IIC T6 Gb Tamb-40~60°C
DIP A21 TA T6 Tamb-40~60°C

INMETRO:
Ex d IIC T6 Gb Ta -40°C a/to +60°C
Ex tb IIIC T85°C Db Ta -40°C a/to +60°C
IP66

cULus Listed, TYPE 4X
UL listed for USA (only for 24Vac version):
Class I, Zone 1, AEx d IIC T6
Zone 21, AEx tb IIIC T85°C
UL listed for Canada (only for 24Vac version):
Class I, Zone 1, Ex d IIC T6 Gb
Class II, Groups E, F and G

BRACKETS AND ADAPTORS

MPXWBA AISI 316L stainless steel wall bracket
MPXCW AISI 316L stainless steel corner adapter module
MPXCQL AISI 316L stainless steel pole adapter module
MPXWBTA AISI 316L stainless steel parapet or ceiling
mounting bracket

ACCESSORIES

WASEX2T4AT Tank 10l with integrated manual pump
controlled by ATEX certified solenoid valve, delivery head up
to 20m (66ft) max, IN 24Vac/Vdc





MAXIMUS MPX ATEX Day / Night Camera

ANALOG CAMERAS (DAY/NIGHT)				
	Day/Night 36x		Day/Night 28x High sensitivity	
	PAL	NTSC	PAL	NTSC
Optical zoom	36x		28x	
Wide Dynamic Range (Fix/Auto)	✓		-	
True progressive SCAN	✓		-	
Digital image stabilisation	✓		✓	
White balance	Auto, ATW, Indoor, Outdoor (Fix/Auto), Sodium Vapor Lamp (Fix/Auto)		Auto, ATW, Indoor, Outdoor (Fix/Auto), Sodium Vapor Lamp (Fix/Auto)	
High horizontal resolution	Up to 550 TV Lines		Up to 550 TV Lines	
Day/Night (Auto ICR)	✓		✓	
Image Sensor	1/4" EXView HAD CCD		1/4" Super HAD CCD II	
Number of effective Pixels	~ 440000 pixel	~ 380000 pixel	~ 440000 pixel	~ 380000 pixel
Min. Color illumination (IR-Cut Filter = OFF)	1.4Lux / 1/50s 0.1 Lux / 1/3s	1.4Lux / 1/60s 0.1 Lux / 1/4s	0.25Lux / 1/50s 0.16 Lux / 1/3s	0.25Lux / 1/60s 0.16 Lux / 1/4s
Min. B/W illumination	0.01 Lux / 1/3s	0.01 Lux / 1/4s	0.0015 Lux / 1/3s	0.0015 Lux / 1/4s
"Shutter Time" automatic increase to improve the night surveillance	✓		✓	
S/N ratio	Greater than 50dB		Greater than 50dB	
AE control	Automatic, Shutter priority, Diaphragm priority, Brightness priority and Manual		Automatic, Shutter priority, Diaphragm priority, Brightness priority and Manual	
Back light compensation	On/Off		On/Off	
Spherical masking (3D) of Privacy zones with automatic upgrade	✓		✓	
Privacy Zone Masking	On/Off (24 positions)		On/Off (24 positions)	
Maximum number of masking blocks to be displayed	8		8	
Resolution of masking blocks	160x120 HxV		160x120 HxV	
Masking	Up to 15 different masking types: 14 colour types or mosaic		Up to 15 different masking types: 14 colour types or mosaic	
Focusing system	Auto (Sensitivity: Normal, Low), Trigger PTZ, Manual		Auto (Sensitivity: Normal, Low), Trigger PTZ, Manual	
"Smart" lens control	Automatic Lens Reset		Automatic Lens Reset	
High Zoom and Wide Horizontal Field of View Capability	✓		✓	
Optical zoom	36x, f=3.4 (wide) to 122.4mm (tele) / F1.6 to F4.5		28x, f=3.5 (wide) to 98mm (tele) / F1.35 to F3.7	
Digital Zoom	12x (432x with optical zoom)		12x (336x with optical zoom)	
Angle of view (A)	57.8 degrees (wide) to 1.7 degrees (tele)		55.8 degrees (wide) to 2.1 degrees (tele)	
Minimum object distance	320mm (12.6in) (wide) to 1500mm (59.1in) (tele)		10mm (0.4in) (wide) to 1500mm (59.1in) (tele)	
Electronic Iris Speed	1/1 ÷ 1/10000s		1/1 ÷ 1/10000s	

MAXIMUS MPX - CONFIGURATION OPTIONS						
	Voltage	Day/Night camera				Video Output
MPX	1 230Vac	P Day/Night camera 36x optical zoom lens, PAL	V With alarm board	W With wiper	0	0 Analog control
	2 24Vac	Q Day/Night camera 28x optical zoom lens, PAL				X IP MPEG4 control ¹
	3 120Vac	N Day/Night camera 36x optical zoom lens, NTSC				Z IP H.264/AVC, Protocol ONVIF Profile S
		M Day/Night camera 28x optical zoom lens, NTSC				

¹ the CNex IP versions only with encoder MPEG4 - MPX...X000A