

The VDM15 is the strongest fixed vandal dome available on the market. The housing integrates a die-cast aluminium case rated IP66 with a scratch resistant polycarbonate bubble that can withstand heavy impacts. It can be surface or flush mounted both internally and externally and features NTP standard conduit entries for easy cabling. The unique conical shape with its numerous mounting points allows for greater security and less chance of physical interference. The camera module features a wide 2.9~10mm lens and is supplied on a 3-axis gimbal to allow positioning in any direction. It incorporates the latest Pixim® Technology permitting to correctly resolve images with an extremely wide dynamic range and delivers a resolution superior to 504 TVL in the day and at night. Designed for the toughest environments, the VDM15 series is the perfect solution to secure prisons but also other external industrial, commercial, education and retail environments. It provides an absolute vandal proof performance combined with an outstanding video image quality.

**DIGITAL  
PIXEL  
SYSTEM**  
FROM PIXIM



VDM15TP22H29V10WDI



## Features

- Indoor/Outdoor Surface or Flush Mount
- Built to IP66, impact protection >IK10+3
- Die-cast aluminium construction with impact and scratch resistant polycarbonate bubble (tinted also available, conditions apply)
- Side and rear 3/4" (25mm) NPT conduit fittings
- Unique conical shape with numerous mounting points
- No ligature points
- 12VDC/24VAC Power Supply Converter for the Camera
- 3-Axis gimbal
- Pixim® Orca Sensor with >504 TVL resolution
- Mechanical IR cut filter
- 0.42 Lux @ F1.2
- Wide Dynamic Range - 120dB max
- 2.9~10mm lens
- User configurable exposure, AGC, AWB, Day & Night via OSD menu
- Digital zoom x2
- Infra red sensitive

## General Specifications of the Housing



Flush mount made easy with the extending locking arms



3-Axis Gimbal Chassis

Material	Heavy duty die-cast aluminum lid and ribbed surface mount ring Triple honeycomb construction to prevent damage from side/lateral impacts Conical shape reducing ligature points and offering better deflection characteristics when attacked Polycarbonate bubble Fully supported dome bubble to prevent bubble from being pushed in Dome liner to reduce glare and obscure camera position Rigid gimbal assembly that does not change position on impact
Weight	1.2Kg / 2lb 9.5oz (excluding camera)
Dimensions	Diameter: 180mm / 7" (surface mount) 168mm / 6" (flush mount) Height: 102mm / 4" (surface mount) 67mm / 3" (flush mount)
Integrity	Weatherproof, IP 66
Impact Protection Rating	Exceeding IK10+3 (120J)
Voltage	12VDC / 24VAC
Fixing	Wall and ceiling mount - surface or flush mount 7 mounting points in surface mount configuration for extremely strong mounting, prevents sheering or mounting hole failure from side/lateral impacts Sloped sides with no ligature points in surface mount configuration
Cable entry	Side and rear 3/4" NPT conduit fittings
PCAs supported	SPS, Service Jack/OSD/Thermostat, UTP and Heater

## General Camera Specifications

Image sensor	1/3" Pixim® Orca Sensor
DSP	Pixim®
Pixel Element	720 (H) x 540 (V) approx.
Scanning Frequency	PAL 2:1 Interlace / H: 15625, V: 50Hz NTSC 2:1 Interlace / H: 15750Hz, V : 59.94Hz
Operation Temperature	-10°C ~ +50°C
Storage Temperature	-30°C ~ +60°C
Power Source	DC12V +/- 15% (supplied from housing)
Power Consumption	4.5W max
Lens Mount	Direct Mount
External Dimensions	38mm x 38mm
Certification Standard	CE / FCC

## Functional Specifications

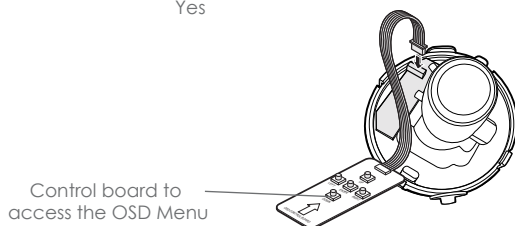
Exposure Control	Gain control, Shutter Control, Wide Dynamic, Manual
Wide Dynamic Range	120dB Max.
Slow Shutter	Default x2 Max x32
BLC	1x Area - configurable
Day & Night	True Day/Night with removable IR Cut filter Auto, On or Off. Night mode with/without burst
White Balance	AWB, ATW, MWB
White Balance Range	2800°K ~ 7500°K, 2000°K ~ 11000°K
Sync System	INT / LL (57Hz - 62.4Hz for NTSC, 47.5Hz - 52Hz for PAL)
D/N Level	Adjustable
Digital Zoom	2X

## Video Specifications

Resolution	>504 TV Lines
Minimum Illumination	Day: 0.95 Lux @ F1.2 (AGC Boost); 40IRE Night :0.42 Lux @ F1.2; 40IRE
Video Output	1.0Vpp 750hm BNC unbalanced
S/N Ratio	>50dB
White Clip	110 IRE
Pedestal Level	7.5 IRE
SYNC Level	40 IRE
Burst Level	40 IRE
H Aperture	10 IRE (r 0.45 100IRE Video Output)
V Aperture	10 IRE (r 0.45 100IRE Video Output)
Gamma Compensation	0.45
Flip	Yes

## Functional Control

OSD	Yes
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## Lens Data - 2.9~10mm

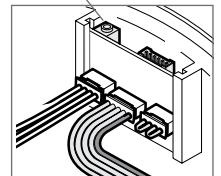
Mounting Type	Ø 14 direct mount
Type of Focal	Varifocal
Type of Iris	DC Drive Auto-Iris
Iris	2.9~10mm Focal Length F1.2 ~ 360 Diagonal: 125.0° ~ 36.0° Horizontal: 94.6° ~ 28.8° Vertical: 68.4° ~ 21.6°
Minimum Object Distance	0.15m
Dimensions	Ø29 X 39 x (40.7)mm
Lens	Aspherical

## Service Cable SVC-CABLE (Optional)

Service lead for easy configuration and focusing of the camera when installed. Installer-friendly.  
Length: 3 ft (92cm).



Service Jack



## UTP Transmission kit (Optional)

UTP transmission kit to transmit video signals over unshielded twisted pair cables.  
VD-UTP-NVTRJ45: UTP with RJ45 connector.  
VD-UTP-TB: UTP with screw terminal block.



## Heater Kit D200-HTR (Optional)

Power input: 24VAC only.  
Allows the camera module to operate down to -30°C.

