

Introduction

The TeraVision™ series rugged dome camera is a general-purpose high resolution camera with full features for different video surveillance applications.

Based on the latest CMOS Megapixel MX238 technologies, the 1/3" Colour CMOS sensor provides razor sharp high resolution at **lines resolution 720P** in colour and black & white.

Furthermore, the built-in IR illuminator model provides details within the field of view even with no other illumination applied.

The camera provides superb video quality under variable or harsh light conditions using digital noise reduction, ATR (adaptive tone reproduction) which reveals details under wide dynamic range conditions, and HLC (highlight compensation) technology that suppresses intense situations such as strong vehicle headlights at night.

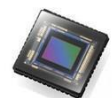
The camera is suitable for most indoor and outdoor circumstances given its 3-axis gimbal bracket, removable IR cut filter, fixed lens, and weatherproof vandal-resistant rugged enclosure.

The infrared (night vision) capability provides Infrared illumination up to **20 meters in zero light conditions**. This vandal resistant camera includes a fixed **lens of 3.6mm**, which provides the installer with the ability to customize the field of view to the best viewing angle needed for that surveillance application.

Product Features

- 720P resolution
- D-WDR
- Fixed lens @ 3.6mm at F2.0
- Smart D-Zoom
- OSD
- Dead pixel correction
- IP66 Rugged enclosure
- Dual mode 960H / 720P

TERAVISION



Exmor R™
CMOS Sensor

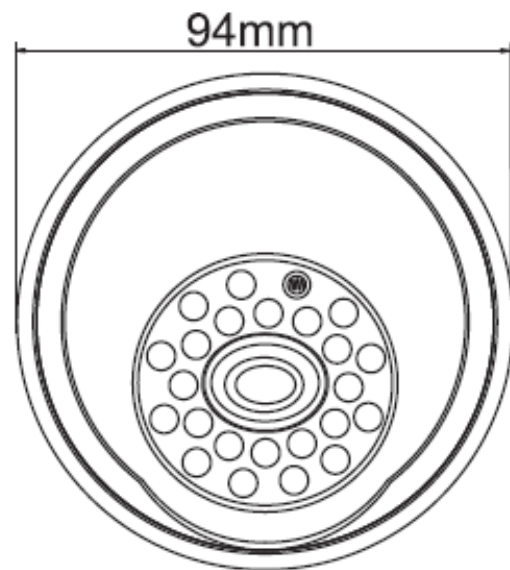
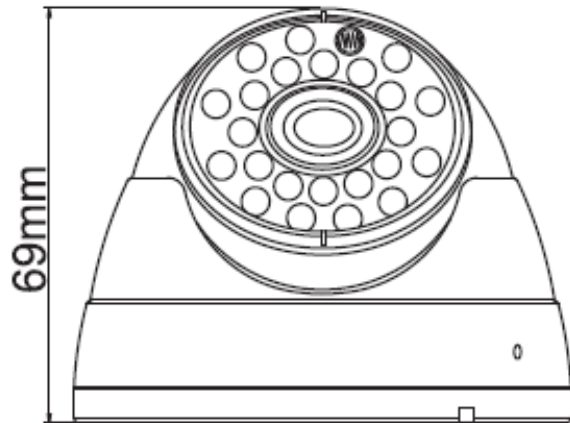


Specifications

Model	TSIRDNAD100
Camera	
Image Sensor	IMX238
DSP	NVP2431H
Image Resolution	720P/960H
Effective Pixels	1.0MP, 1280x960
TV System	PAL/NTSC
Electronic Shutter	1/25s~1/50,000s , 1/30s~1/60,000s
Sync System	Internal
Usable Illumination	0.001Lux
S/N Ratio	≥50dB
Scanning System	Progressive Scan
Video Output Mode	AHD/CVBS (960H) (BNC)
Lens	
Focus Length	3.6mm
Focus Control	Fixed
Lens Type	Fixed
Pixels	2M Pixels
Auto Iris Support	NO
Night Vision	
Infrared LED	Φ 5X36PCS
Infrared Distance	20M
IR Status	Under 10 Lux by CDS
IR Power On	CDS Auto Control
Camera Features	
Day/Night	Auto (ICR) / Color / B&W
OSD Menu Language	EN, CN, DE, FRA, IT, ES PL, RU, PT, NL, TR
White Balance	Auto/Manual
Gain Control	Auto
Noise Reduction	3D NR
Picture Adjustment	Yes
OSD Support	Yes
General	
Vandal proof Housing	YES, Metal
Lens Angle Adjustment	YES
Dual Voltage	NO
IR Cut Filter	YES
Heater	NO
Operation Temperature	-10℃ ~ +50℃ RH95% Max
Storage Temperature	-20℃ ~ +60℃ RH95% Max
Power Source	DC12V±10%, 500mA
Dimension	Φ 94 x 69(H)mm
Weight	0.45Kg
Regulatory compliance	CE, FCC, UL, Reach, WEEE, RoHS, C-Tick

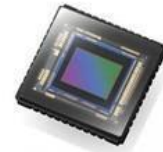
Ordering Information

TSIRDNAD100	TeraVision Vandal proof Dome Camera , 720P, BNC , IR illumination,12VDC, PAL
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Dimensions**TSIRDNAD100**

High quality imaging experience

Capture high quality images and videos even in dark low light situations.



Exmor R
CMOS Sensor

With the back-illuminated CMOS image sensor, realizing high picture quality, nearly twofold sensitivity and low noise. It achieves a signal-to-noise ratio of (+6.4dB sensitivity, -6.6dB random noise) in comparison to existing Sony CMOS image sensors of the same pixel size.



Image enhance

Original



Edge Enhanced



Wide Dynamic Range (WDR)

IMX138+FH8510

IMX238+FH8520



Improvement of visibility under high contrast scene by WDR

Low Illumination

Sample Images (No IRCF with Wavelength 850 nm LED Illumination)



To improve sensitivity in the near infrared light region for industrial applications, Sony developed CMOS image sensors "IMX238LQJ" for high picture quality at the low illumination