

**DATASHEET** 

# VVRD37V11HDAS

# ULTRA LOW LIGHT 1080P ANALOGUE VANDAL DOME





# **Key Features:**

#### Full HD TVI imaging

Full HD 1920x1080 resolution in TVI ensures excellent images over the coax

#### Ultra low light

Uses Starlight technology to produce high definition colour images even in extremely low light scenes

#### **Dual format**

A TVI output provides 1080p images and lens control over the coax, with a separate CVBS, 700TVL output to ensure compatibility with all modern DVRs

#### **TDN** operation

The switching IR cut filter ensures quality images day or night

#### Vandal resistant IP66 housing

The IK10 housing has been tested to BS EN 62262: 2002 standards, making it robust enough to survive in most environments

#### Wide Dynamic Range (WDR)

120dB of WDR improves image quality in challenging lighting situations

The VVRD37V11HDAS vandal resistant camera is capable of providing full HD 1080p resolution in TVI High Definition Analogue (HDA) format, over the coax cabling. The camera uses a 3.7-11mm varifocal lens coupled with an extremely sensitive 1/1.9 inch Sony CMOS sensor to produce stunning quality colour images even in extremely low light situations.

The camera's set up menu can be accessed via the in-line tact switch or up the coax from a compatible DVR, making it very simple to adjust and commission. The OSD menu allows the operator access to a number of extremely useful features, including true 120dB Wide Dynamic Range (WDR), allowing the camera to produce detail across the complete image, even in high contrast areas, with dual voltage 12VDC and 24VAC operation, it makes the VVRD37V11HDAS suitable for a wide range of applications.

Tested to BS EN 62262, the IK10 vandal resistant VVRD also has 3-axis gimble to further simplify installation and a wide range of bracketry provides multiple mounting options. The default settings allow it to work automatically out of the box on TVI coax (for menu set up and commissioning), with a separate CVBS 700TVL output allowing the VVRD37V11HDAS camera to also work on legacy equipment.

### **TECHNICAL SPECIFICATION**

Resolution         1080p (TVI) / 700TVL (CVBS)           Image sensor         1/19" Sony CMOS           OSP         Eyenix           Operation         True Day Night           Effective pixels         1944 (H) x 1092 (V)           Scanning Freq.         PAL: 15.625KHz(H) x 50Hz(V)           Syn. Ratio         6.00B (ACC off)           Uses         3.7:Imm manual varifical           Min. Illumination         0.0000B Lux (Colour), 0.00000B Lux (Mono)           OSD / Lens Control         Via tactle switch on flying lead           Electronic Shutter         Auto or Manual (V25 to 1/30,000 sec)           WRR         Low, Middle, High           BLC         1 x adjustable area           HLC (PWI)         Level t- 20 / 8 colours           By Shight         Auto, Colour, B&W           White Bal.         Auto, Auto, Autoext, Push, Manual           Moliton Bel.         4 areas           Privacy         16 standard / 8 polygonal           AGC         Off, on           DIN	Model	VVRD37V11HDAS
DSP         Eyenix           Operation         True Day Night           Effective pixels         1944 (H) x 1092 (V)           Scanning Freq.         PAL: 15.625kHz(H) x 50Hz(V)           Sync. system         Internal           Video output         LOVPp (75Q, composite)           5/N Ratio         60d8 (AGC off)           Lens         3.71mm manual varifical           Min. illumination         0.00008 Lux (Colour), 0.00008 Lux (Mono)           OSD / Lens Control         Via tactile switch on flying lead           Electronic Shutter         4uto or Manual (725 to 1/30,000 sec)           WDR         Low, Middle, High           BLC         1 x adjustable area           HLC (PW)         Auto, Colour, B&W           White Bal.         Auto, Autoext, Push, Manual           Motion Det.         4 areas           Privacy         16 standard / 8 polygonal           AGC         Off, On           DNR         Low, Middle, High           Mirror         Off, On           Brightness         0 - 20           Sharpness         0 - 20           Flip         Off, On           Title         Off, On (8 characters)           Language         EN <t< td=""><td>Resolution</td><td>1080p (TVI) / 700TVL (CVBS)</td></t<>	Resolution	1080p (TVI) / 700TVL (CVBS)
Operation         True Day Night           Effective pixels         1944 (H) x 1092 (V)           Scanning Freq.         PAL: 15.625 KH2 (H) x 50H2 (V)           Sync. system         Internal           Video output         1.0VP-p (75Q, composite)           5/N Ratio         60dB (AGC off)           Lens         3.7-thmm manual varifocal           Min. illumiation         0.00008 Lux ( Colour), 0.000008 Lux ( Mono)           OSD / Lens Control         Via tactile switch on flying lead           Electronic Shutter         Auto or Manual (1/25 to 1/30,000 sec)           WDR         Low, Middle, High           BLC         1 x adjustable area           HLC (PWI)         Level 1-20 / 8 colours           Day & Night         Auto, Autoest, Push, Manual           Motion Det.         4 areas           Privacy         16 standard / 8 polygonal           AGC         Off, On           DNR         Low, Middle, High           Mirror         Off, On           Brightness         0 - 20           Flip         Off, On           Bright         Off, On (8 characters)           Language         EN           Language         EN           Power         12VDC (-10 to -15%) / 24VA	Image sensor	1/1.9" Sony CMOS
Effective pixels         1944 (H) x 1092 (V)           Scanning Freq.         PAL: 15.625KH2 (H) x 50H2 (V)           Sync. system         Internal           Video output         1.0Vp-p (75Q, composite)           S/N Ratio         60dB (AGC off)           Lens         3.7-Hmm manual varifocal           Min. illumination         0.00008 Lux ( Colour), 0.000008 Lux (Mono)           S05 / Lens Control         Via tactile switch on flying lead           Electronic Shutter         Auto or Manual (1/25 to 1/30,000 sec)           WDR         Low, Middle, High           BLC         1 x a dijustable area           HLC (PWI)         Level 1- 20 / 8 colours           Day & Night         Auto, Autoest, Push, Manual           Motion Det.         4 areas           Privacy         16 standard / 8 polygonal           AGC         Off, On           DNR         Low, Middle, High           Mirror         Off, On           Brightness         0 - 20           Sharpness         0 - 20           Flip         Off, On           Title         Off, On 6           Consumption         2.5W, 210mA           Consumption         2.5W, 210mA           Cousting Line         2.5W, 220mA <td>DSP</td> <td>Eyenix</td>	DSP	Eyenix
Scanning Freq.         PAL: 15.625KHz(kr) x 50Hz(V)           Sync. system         Internal           Video output         1.0Vp- (75D, composite)           S/N Ratio         60dB (AGC off)           Lens         3.7:Imm manual variocal           Min. illumination         0.00008 Lux (Colour), 0.000008 Lux (Mono)           OSD / Lens Control         Via factile switch on flying lead           Electronic Shutter         Auto or Manual (I/25 to 1/30,000 sec)           WDR         Low, Middle, High           BLC         1 x adjustable area           HLC (PWI)         Level 1-20 / 8 colours           Day & Night         Auto, Colour, B&W           White Bal.         Auto, Autoext, Push, Manual           Motion Det.         4 areas           Privacy         16 standard / 8 polygonal           AGC         Off, On           Brightness         0 - 20           Sharpness         0 - 20           Flip         Off, On           Title         Off, On           Title         Off, On (8 characters)           Language         EN           Power         12 VDC (10 to 15%) / 24VAC (+/10%)           Consumption         2.5W, 20mA           3.8W, 60mA         3.8W, 60mA	Operation	True Day Night
Sync. system         Internal           Video output         1.0Vp-p (750, composite)           S/N Ratio         6.0dB (AGC off)           Lens         3.74Tmm amual varifocal           Min. illumination         0.00008 Lux (Colour), 0.000008 Lux (Mono)           OSD / Lens Control         Via tactile switch on flying lead           Electronic Shutter         Auto or Manual (I/25 to 1/30,000 sec)           WDR         Low, Middle, High           BLC         1 x adjustable area           HLC (PWI)         Level 1- 20 / 8 colours           Day & Nipht         Auto, Colour, BSW           White Bal.         Auto, Auto, Colour, BSW           White Bal.         Auto, Auto, Styphynama           AGC         Off, On           DNR         Low, Middle, High           Mirror         Off, On           Brightness         0 - 20           Sharpness         0 - 20           Sharpness         0 - 20           Flip         Off, On           Title         Off, On (8 characters)           Language         EN           Power         12 VDC (-10 to +15%) / 24VAC (+/-10%)           Consumption         2.5W, 210mA           A.SW, 160mA         3.8W, 160mA	Effective pixels	1944 (H) x 1092 (V)
Video utput         1.0Vp·p (750, composite)           S/N Ratio         60dB (AGC off)           Lens         3.7·Hmm manual varifocal           Min. illumination         0.00008 Lux (Colour), 0.000008 Lux (Mono)           OSD / Lens Control         Via tactile switch on flying lead           Electronic Shutter         Auto or Manual (1/25 to 1/30,000 sec)           WDR         Low, Middle, High           BLC         1 x adjustable area           HLC (PWI)         Level 1- 20 / 8 colours           Day & Night         Auto, Colour, BEW           White Bal.         Auto, Autoext, Push, Manual           Motion Det.         4 areas           Privacy         16 standard / 8 polygonal           AGC         Off, On           DNR         Low, Middle, High           Mirror         Off, On           Brightness         0 - 20           Filip         Off, On           Brightness         0 - 20           Filip         Off, On           Title         Off, On (8 characters)           Language         EN           Power         12VDC (10 to +15%) / 24VAC (+10%)           Consumption         3.8W, 160mA           2.5W, 210mA         3.8W, 160mA	Scanning Freq.	PAL: 15.625KHz(H) x 50Hz(V)
S/N Ratio         60dB (AGC off)           Lens         3.7-Imm manual varifocal           Min. Illumination         0.00008 Lux ( Colour), 0.00008 Lux (Mono)           OSD / Lens Control         Via tactile switch on flying lead           Electronic Shutter         Auto or Manual (1/25 to 1/30,000 sec)           WDR         Low, Middle, High           BLC         1 x adjustable area           HLC (PWI)         Level1-20 / 8 colours           Day & Night         Auto, Colour, BSW           White Bal.         Auto, Autoext, Push, Manual           Motion Det.         4 areas           Privacy         16 standard / 8 polygonal           AGC         Off, On           DNR         Low, Middle, High           Mirror         Off, On           Brightness         0 - 20           Sharpness         0 - 20           Flip         Off, On           Title         Off, On (8 characters)           Language         EN           Power         12 VDC (-10 to +15%) / 24VAC (+/-10%)           Consumption         3.8 W, 160mA           Power input         2-pin terminal block with 2,Imm jack adapter           Video outputs         2 x BNC connector (TVI & CVBS)           Temperatures <td>Sync. system</td> <td>Internal</td>	Sync. system	Internal
Lens         3.7-timm manual varifocal           Min. illumination         0.00008 Lux ( Colour), 0.000008 Lux (Mono)           OSD / Lens Control         Via tactile switch on flying lead           Electronic Shutter         Auto or Manual (1/25 to 1/30,000 sec)           WDR         Low, Middle, High           BLC         1 x adjustable area           HLC (PWI)         Level 1- 20 / 8 colours           Day & Night         Auto, Colour, B&W           White Bal.         Auto, Autoext, Push, Manual           Motion Det.         4 areas           Privacy         16 standard / 8 polygonal           AGC         Off, On           DNR         Low, Middle, High           Mirror         Off, On           Mirror         Off, On           Sharpness         0 - 20           Sharpness         0 - 20           Flip         Off, On           Title         Off, On (8 characters)           Language         EN           Power         12VDC (-10 to +15%) / 24VAC (+/-10%)           Consumption         3,8W, 160mA           Power input         2-pin terminal block with 2.tum jack adapter           Video outputs         2 x NC connector (TV) & CVBS)           Temperatures	Video output	1.0Vp-p (75Ω, composite)
Min. illumination         0.00008 Lux ( Colour), 0.000008 Lux (Mono)           OSD / Lens Control         Via tactile switch on flying lead           Electronic Shutter         Auto or Manual (1/25 to 1/30,000 sec)           WDR         Low, Middle, High           BLC         1 x adjustable area           HLC (PWI)         Level 1- 20 / 8 colours           Day & Night         Auto, Colour, BSW           White Bal.         Auto, Autoext, Push, Manual           Motion Det.         4 areas           Privacy         16 standard / 8 polygonal           AGC         Off, On           DNR         Low, Middle, High           Mirror         Off, On           Brightness         0 - 20           Sharpness         0 - 20           Sharpness         0 - 20           Flip         Off, On (8 characters)           Language         EN           Power         12VDC (-10 to +15%) / 24VAC (+/-10%)           Consumption         2,5w, 210mA           Consumption         2,5w, 210mA           Nome         2,5w, 210mA           3,8W, 160mA           Power input         2-pin terminal block with 2.1mm jack adapter           Video outputs         2 x BNC connector (TVI & CVBS)	S/N Ratio	60dB (AGC off)
OSD / Lens Control         Via tactlle switch on flying lead           Electronic Shutter         Auto or Manual (1/25 to 1/30,000 sec)           WDR         Low, Middle, High           BLC         1 x adjustable area           HLC (PWI)         Level 1- 20 / 8 colours           Day & Night         Auto, Colour, BSW           White Bal.         Auto, Autoext, Push, Manual           Motion Det.         4 areas           Privacy         16 standard / 8 polygonal           AGC         Off, On           DNR         Low, Middle, High           Mirror         Off, On           Brightness         0 - 20           Sharpness         0 - 20           Flip         Off, On           Title         Off, On (8 characters)           Language         EN           Power         12VDC (-10 to +15%) / 24VAC (+/-10%)           Consumption         2,5W, 210mA           Shaw, 160mA         2,5W, 210mA           Power input         2-pin terminal block with 2,1mm jack adapter           Video outputs         2 x BNC connector (TVI & CVBS)           Temperatures         -10 to 50°C (operating) / -20 to 50°C (storage)           Environmental         IP66 & IKIO (BS EN 62262)           Humidi	Lens	3.7-11mm manual varifocal
Electronic Shutter         Auto or Manual (1/25 to 1/30,000 sec)           WDR         Low, Middle, High           BLC         1 x adjustable area           HLC (PWI)         Level 1- 20 / 8 colours           Day & Night         Auto, Colour B&W           White Bal.         Auto, Autoext, Push, Manual           Motion Det.         4 areas           Privacy         16 standard / 8 polygonal           AGC         Off, On           DNR         Low, Middle, High           Mirror         Off, On           Brightness         0 - 20           Sharpness         0 - 20           Flip         Off, On           Title         Off, On           Title         Off, On           Power         12VDC (-10 to +15%) / 24VAC (+/-10%)           Consumption         3.8W, 160mA           Power input         2 -pin terminal block with 2.1mm jack adapter           Video outputs         2 x BNC connector (TVI & CVBS)           Temperatures         -10 to 50°C (operating) / 20 to 50°C (storage)           Environmental         IP66 & IK10 (BS EN 62262)           Humidity         0 to 90% (non-condensing)           Colour         RAL7035           Dims. (net)         144 (Φ) x 94.5 (H)	Min. illumination	0.00008 Lux ( Colour), 0.000008 Lux (Mono)
WDR         Low, Middle, High           BLC         1 x adjustable area           HLC (PWI)         Level 1- 20 / 8 colours           Day & Night         Auto, Colour, B&W           White Bal.         Auto, Autoext, Push, Manual           Motion Det.         4 areas           Privacy         16 standard / 8 polygonal           AGC         Off, On           DNR         Low, Middle, High           Mirror         Off, On           Brightness         0 - 20           Sharpness         0 - 20           Flip         Off, On 6           Title         Off, On 8 characters)           Language         EN           Power         12VDC (10 to +15%) / 24VAC (+/-10%)           Consumption         3.8W, 160mA           Power input         2-pin terminal block with 2.1mm jack adapter           Video outputs         2 x BNC connector (TVI & CVBS)           Temperatures         -10 to 50°C (operating) / -20 to 50°C (storage)           Environmental         IP66 & IK10 (BS EN 62262)           Humidity         0 to 90% (non-condensing)           Colour         RAL7035           Dims. (net)         144 (Φ) x 94.5 (H) mm           Dims. (gross)         155 (H) x 170 (W) x 170 (	OSD / Lens Control	Via tactile switch on flying lead
BLC         1 x adjustable area           HLC (PWI)         Level 1- 20 / 8 colours           Day & Night         Auto, Colour, B&W           White Bal.         Auto, Autoext, Push, Manual           Motion Det.         4 areas           Privacy         16 standard / 8 polygonal           AGC         Off, On           DNR         Low, Middle, High           Mirror         Off, On           Brightness         0 - 20           Sharpness         0 - 20           Flip         Off, On           Title         Off, On (8 characters)           Language         EN           Power         12VDC (10 to +15%) / 24VAC (+/10%)           Consumption         2.5W, 210mA           Consumption         3.8W, 160mA           Power input         2-pin terminal block with 2.1mm jack adapter           Video outputs         2 x BNC connector (TVI & CVBS)           Temperatures         -10 to 50°C (operating) / -20 to 50°C (storage)           Environmental         IP66 & IKIO (BS EN 62262)           Humidity         0 to 90% (non-condensing)           Colour         RALT035           Dims. (net)         144 (Φ) x 94.5 (H) mm           Dims. (gross)         155 (H) x 170 (W) x 170 (	Electronic Shutter	Auto or Manual (1/25 to 1/30,000 sec)
HLC (PWI)  Day & Night  Auto, Colour, B&W  White Bal.  Auto, Autoext, Push, Manual  Motion Det.  4 areas  Privacy  16 standard / 8 polygonal  AGC  Off, On  DNR  Low, Middle, High  Mirror  Off, On  Brightness  0 - 20  Sharpness  0 - 20  Sharpness  0 - 20  Sharpness  0 - 20  Title  Off, On (8 characters)  Language  EN  Power  12VDC (-10 to +15%) / 24VAC (+/-10%)  Consumption  Consumption  2 - yein terminal block with 2.tm jack adapter  Video outputs  2 × BNC connector (TVI & CVBS)  Temperatures  1-10 to 50°C (operating) / -20 to 50°C (storage)  Environmental  Heide Si KIO (BS EN 62262)  Humidity  Oto 90% (non-condensing)  Colour  RAL7035  Dims. (net)  Height  650g (net) / 910 (gross)	WDR	Low, Middle, High
Day & Night         Auto, Colour, B&W           White Bal.         Auto, Autoext, Push, Manual           Motion Det.         4 areas           Privacy         16 standard / 8 polygonal           AGC         Off, On           DNR         Low, Middle, High           Mirror         Off, On           Brightness         0 - 20           Sharpness         0 - 20           Flip         Off, On           Title         Off, On           Language         EN           Power         12VDC (-10 to +15%) / 24VAC (+/-10%)           Consumption         2.5W, 210mA           3.8W, 160mA         3.8W, 160mA           Power input         2-pin terminal block with 2.1mm jack adapter           Video outputs         2 x BNC connector (TVI & CVBS)           Temperatures         -10 to 50°C (operating) / -20 to 50°C (storage)           Environmental         1966 & IKI0 (Bs EN 62262)           Humidity         0 to 90% (non-condensing)           Colour         RAL7035           Dims. (net)         144 (Φ) x 94.5 (H) mm           Dims. (gross)         155 (H) x 170 (W) x 170 (D) mm           Weight         650g (net) / 910 (gross)	BLC	1 x adjustable area
White Bal.         Auto, Autoext, Push, Manual           Motion Det.         4 areas           Privacy         16 standard / 8 polygonal           AGC         Off, On           DNR         Low, Middle, High           Mirror         Off, On           Brightness         0 - 20           Sharpness         0 - 20           Flip         Off, On           Title         Off, On (8 characters)           Language         EN           Power         12VDC (-10 to +15%) / 24VAC (+/-10%)           Consumption         2.5W, 210mA           3.8W, 160mA           Power input         2-pin terminal block with 2.1mm jack adapter           Video outputs         2 x BNC connector (TVI & CVBS)           Temperatures         -10 to 50°C (operating) / -20 to 50°C (storage)           Environmental         IP66 & IK10 (BS EN 62262)           Humidity         0 to 90% (non-condensing)           Colour         RAL7035           Dims. (net)         144 (Φ) x 94.5 (H) mm           Dims. (gross)         155 (H) x 170 (W) x 170 (D) mm           Weight         650g (net) / 910 (gross)	HLC (PWI)	Level 1- 20 / 8 colours
Motion Det.         4 areas           Privacy         16 standard / 8 polygonal           AGC         Off, On           DNR         Low, Middle, High           Mirror         Off, On           Brightness         0 - 20           Sharpness         0 - 20           Flip         Off, On           Title         Off, On (8 characters)           Language         EN           Power         12VDC (-10 to +15%) / 24VAC (+/-10%)           Consumption         3.8W, 160mA           Power input         2-pin terminal block with 2.1mm jack adapter           Video outputs         2 x BNC connector (TVI & CVBS)           Temperatures         -10 to 50°C (operating) / -20 to 50°C (storage)           Environmental         IP66 & IK10 (BS EN 62262)           Humidity         0 to 90% (non-condensing)           Colour         RAL7035           Dims. (net)         144 (Φ) x 94.5 (H) mm           Dims. (gross)         155 (H) x 170 (W) x 170 (D) mm           Weight         650g (net) / 910 (gross)	Day & Night	Auto, Colour, B&W
Privacy         16 standard / 8 polygonal           AGC         Off, On           DNR         Low, Middle, High           Mirror         Off, On           Brightness         0 - 20           Sharpness         0 - 20           Flip         Off, On           Title         Off, On (8 characters)           Language         EN           Power         12VDC (-10 to +15%) / 24VAC (+/-10%)           Consumption         2.5W, 210mA           3.8W, 160mA           Power input         2-pin terminal block with 2.1mm jack adapter           Video outputs         2 x BNC connector (TVI & CVBS)           Temperatures         -10 to 50°C (operating) / -20 to 50°C (storage)           Environmental         IP66 & IK10 (BS EN 62262)           Humidity         0 to 90% (non-condensing)           Colour         RAL7035           Dims. (net)         144 (Φ) x 94.5 (H) mm           Dims. (gross)         155 (H) x 170 (W) x 170 (D) mm           Weight         650g (net) / 910 (gross)	White Bal.	Auto, Autoext, Push, Manual
AGC         Off, On           DNR         Low, Middle, High           Mirror         Off, On           Brightness         0 - 20           Sharpness         0 - 20           Flip         Off, On           Title         Off, On (8 characters)           Language         EN           Power         12VDC (-10 to +15%) / 24VAC (+/-10%)           Consumption         2.5W, 210mA           3.8W, 160mA           Power input         2-pin terminal block with 2.1mm jack adapter           Video outputs         2 x BNC connector (TVI & CVBS)           Temperatures         -10 to 50°C (operating) / -20 to 50°C (storage)           Environmental         IP66 & IK10 (BS EN 62262)           Humidity         0 to 90% (non-condensing)           Colour         RAL7035           Dims. (net)         144 (Φ) x 94.5 (H) mm           Dims. (gross)         155 (H) x 170 (W) x 170 (D) mm           Weight         650g (net) / 910 (gross)	Motion Det.	4 areas
DNR         Low, Middle, High           Mirror         Off, On           Brightness         0 - 20           Sharpness         0 - 20           Flip         Off, On           Title         Off, On (8 characters)           Language         EN           Power         12VDC (-10 to +15%) / 24VAC (+/-10%)           Consumption         3.8W, 160mA           Power input         2-pin terminal block with 2.1mm jack adapter           Video outputs         2 x BNC connector (TVI & CVBS)           Temperatures         -10 to 50°C (operating) / -20 to 50°C (storage)           Environmental         IP66 & IK10 (BS EN 62262)           Humidity         0 to 90% (non-condensing)           Colour         RAL7035           Dims. (net)         144 (Φ) x 94.5 (H) mm           Dims. (gross)         155 (H) x 170 (W) x 170 (D) mm           Weight         650g (net) / 910 (gross)	Privacy	16 standard / 8 polygonal
Mirror         Off, On           Brightness         0 - 20           Sharpness         0 - 20           Flip         Off, On           Title         Off, On (8 characters)           Language         EN           Power         12VDC (-10 to +15%) / 24VAC (+/-10%)           Consumption         2.5W, 210mA           3.8W, 160mA         3.8W, 160mA           Power input         2-pin terminal block with 2.1mm jack adapter           Video outputs         2 x BNC connector (TVI & CVBS)           Temperatures         -10 to 50°C (operating) / -20 to 50°C (storage)           Environmental         IP66 & IKIO (BS EN 62262)           Humidity         0 to 90% (non-condensing)           Colour         RAL7035           Dims. (net)         144 (Φ) x 94.5 (H) mm           Dims. (gross)         155 (H) x 170 (W) x 170 (D) mm           Weight         650g (net) / 910 (gross)	AGC	Off, On
Brightness         0 - 20           Sharpness         0 - 20           Flip         Off, On           Title         Off, On (8 characters)           Language         EN           Power         12VDC (-10 to +15%) / 24VAC (+/-10%)           Consumption         2.5W, 210mA           3.8W, 160mA           Power input         2-pin terminal block with 2.1mm jack adapter           Video outputs         2 x BNC connector (TVI & CVBS)           Temperatures         -10 to 50°C (operating) / -20 to 50°C (storage)           Environmental         IP66 & IK10 (BS EN 62262)           Humidity         0 to 90% (non-condensing)           Colour         RAL7035           Dims. (net)         144 (Φ) x 94.5 (H) mm           Dims. (gross)         155 (H) x 170 (W) x 170 (D) mm           Weight         650g (net) / 910 (gross)	DNR	Low, Middle, High
Sharpness         0 - 20           Flip         Off, On           Title         Off, On (8 characters)           Language         EN           Power         12VDC (-10 to +15%) / 24VAC (+/-10%)           Consumption         2.5W, 210mA 3.8W, 160mA           Power input         2-pin terminal block with 2.1mm jack adapter           Video outputs         2 x BNC connector (TVI & CVBS)           Temperatures         -10 to 50°C (operating) / -20 to 50°C (storage)           Environmental         IP66 & IK10 (BS EN 62262)           Humidity         0 to 90% (non-condensing)           Colour         RAL7035           Dims. (net)         144 (Φ) x 94.5 (H) mm           Dims. (gross)         155 (H) x 170 (W) x 170 (D) mm           Weight         650g (net) / 910 (gross)	Mirror	Off, On
Flip         Off, On           Title         Off, On (8 characters)           Language         EN           Power         12VDC (-10 to +15%) / 24VAC (+/-10%)           Consumption         2.5W, 210mA 3.8W, 160mA           Power input         2-pin terminal block with 2.1mm jack adapter           Video outputs         2 x BNC connector (TVI & CVBS)           Temperatures         -10 to 50°C (operating) / -20 to 50°C (storage)           Environmental         IP66 & IK10 (BS EN 62262)           Humidity         0 to 90% (non-condensing)           Colour         RAL7035           Dims. (net)         144 (Φ) x 94.5 (H) mm           Dims. (gross)         155 (H) x 170 (W) x 170 (D) mm           Weight         650g (net) / 910 (gross)	Brightness	0 - 20
Title         Off, On (8 characters)           Language         EN           Power         12VDC (-10 to +15%) / 24VAC (+/-10%)           Consumption         2.5W, 210mA           Power input         2-pin terminal block with 2.1mm jack adapter           Video outputs         2 x BNC connector (TVI & CVBS)           Temperatures         -10 to 50°C (operating) / -20 to 50°C (storage)           Environmental         IP66 & IK10 (BS EN 62262)           Humidity         0 to 90% (non-condensing)           Colour         RAL7035           Dims. (net)         144 (Φ) x 94.5 (H) mm           Dims. (gross)         155 (H) x 170 (W) x 170 (D) mm           Weight         650g (net) / 910 (gross)	Sharpness	0 - 20
Language         EN           Power         12VDC (-10 to +15%) / 24VAC (+/-10%)           Consumption         2.5W, 210mA           3.8W, 160mA           Power input         2-pin terminal block with 2.1mm jack adapter           Video outputs         2 x BNC connector (TVI & CVBS)           Temperatures         -10 to 50°C (operating) / -20 to 50°C (storage)           Environmental         IP66 & IK10 (BS EN 62262)           Humidity         0 to 90% (non-condensing)           Colour         RAL7035           Dims. (net)         144 (Φ) x 94.5 (H) mm           Dims. (gross)         155 (H) x 170 (W) x 170 (D) mm           Weight         650g (net) / 910 (gross)	Flip	Off, On
Power         12VDC (-10 to +15%) / 24VAC (+/-10%)           Consumption         2.5W, 210mA           3.8W, 160mA           Power input         2-pin terminal block with 2.1mm jack adapter           Video outputs         2 x BNC connector (TVI & CVBS)           Temperatures         -10 to 50°C (operating) / -20 to 50°C (storage)           Environmental         IP66 & IK10 (BS EN 62262)           Humidity         0 to 90% (non-condensing)           Colour         RAL7035           Dims. (net)         144 (Φ) x 94.5 (H) mm           Dims. (gross)         155 (H) x 170 (W) x 170 (D) mm           Weight         650g (net) / 910 (gross)	Title	Off, On (8 characters)
Consumption         2.5W, 210mA 3.8W, 160mA           Power input         2-pin terminal block with 2.1mm jack adapter           Video outputs         2 x BNC connector (TVI & CVBS)           Temperatures         -10 to 50°C (operating) / -20 to 50°C (storage)           Environmental         IP66 & IK10 (BS EN 62262)           Humidity         0 to 90% (non-condensing)           Colour         RAL7035           Dims. (net)         144 (Φ) x 94.5 (H) mm           Dims. (gross)         155 (H) x 170 (W) x 170 (D) mm           Weight         650g (net) / 910 (gross)	Language	EN
Consumption         3.8 W, 160mA           Power input         2-pin terminal block with 2.1mm jack adapter           Video outputs         2 x BNC connector (TVI & CVBS)           Temperatures         -10 to 50°C (operating) / -20 to 50°C (storage)           Environmental         IP66 & IK10 (BS EN 62262)           Humidity         0 to 90% (non-condensing)           Colour         RAL7035           Dims. (net)         144 (Φ) x 94.5 (H) mm           Dims. (gross)         155 (H) x 170 (W) x 170 (D) mm           Weight         650g (net) / 910 (gross)	Power	12VDC (-10 to +15%) / 24VAC (+/-10%)
Video outputs         2 x BNC connector (TVI & CVBS)           Temperatures         -10 to 50°C (operating) / -20 to 50°C (storage)           Environmental         IP66 & IK10 (BS EN 62262)           Humidity         0 to 90% (non-condensing)           Colour         RAL7035           Dims. (net)         144 (Φ) x 94.5 (H) mm           Dims. (gross)         155 (H) x 170 (W) x 170 (D) mm           Weight         650g (net) / 910 (gross)	Consumption	
Temperatures       -10 to 50°C (operating) / -20 to 50°C (storage)         Environmental       IP66 & IK10 (BS EN 62262)         Humidity       0 to 90% (non-condensing)         Colour       RAL7035         Dims. (net)       144 (Φ) x 94.5 (H) mm         Dims. (gross)       155 (H) x 170 (W) x 170 (D) mm         Weight       650g (net) / 910 (gross)	Power input	2-pin terminal block with 2.1mm jack adapter
Environmental         IP66 & IK10 (BS EN 62262)           Humidity         0 to 90% (non-condensing)           Colour         RAL7035           Dims. (net)         144 (Φ) x 94.5 (H) mm           Dims. (gross)         155 (H) x 170 (W) x 170 (D) mm           Weight         650g (net) / 910 (gross)	Video outputs	2 x BNC connector (TVI & CVBS)
Humidity         0 to 90% (non-condensing)           Colour         RAL7035           Dims. (net)         144 (Φ) x 94.5 (H) mm           Dims. (gross)         155 (H) x 170 (W) x 170 (D) mm           Weight         650g (net) / 910 (gross)	Temperatures	-10 to 50°C (operating) / -20 to 50°C (storage)
Colour         RAL7035           Dims. (net)         144 (Φ) x 94.5 (H) mm           Dims. (gross)         155 (H) x 170 (W) x 170 (D) mm           Weight         650g (net) / 910 (gross)	Environmental	IP66 & IK10 (BS EN 62262)
Dims. (net)       144 (Φ) x 94.5 (H) mm         Dims. (gross)       155 (H) x 170 (W) x 170 (D) mm         Weight       650g (net) / 910 (gross)	Humidity	0 to 90% (non-condensing)
Dims. (gross)     155 (H) x 170 (W) x 170 (D) mm       Weight     650g (net) / 910 (gross)	Colour	RAL7035
Weight 650g (net) / 910 (gross)	Dims. (net)	144 (Φ) x 94.5 (H) mm
	Dims. (gross)	155 (H) x 170 (W) x 170 (D) mm
Approvals CE & RoHS2: 2011/65/EU	Weight	650g (net) / 910 (gross)
	Approvals	CE & RoHS2: 2011/65/EU

## Models In This Range

VVRD37V11HDAS

### **Associated Products**

0498930 VRD-EWMB

Wall Bracket

0457230 VDM-ECMA

Corner mount adaptor for wall

bracket

0457240 VDM-EPMAg

Side pole adaptor for wall mount

0498940

VRD-EPMB

Pendant mount bracket

0690220 VRD-TMJB

Tower mount with junction box





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