



V2012FE-B

Roughneck Pro Network Panaramic Camera



Overview

Vicon's Roughneck® Pro V2012FE-B HD Panoramic Dome Camera is an advanced 12MP surveillance solution designed to deliver exceptional image clarity and wide-area coverage with a single device. Featuring an integral fisheye lens, it provides a true 360° hemispherical view that eliminates blind spots and ensures complete situational awareness in both indoor and outdoor environments. Engineered with robust construction and vandal-resistant design, the camera is ideal for mission-critical applications requiring continuous monitoring, whether installed in ceilings, walls, or exposed outdoor areas. With IP66 weatherproof and IK10 impact resistance ratings, the camera offers long-term durability even under harsh environmental conditions.

The V2012FE-B leverages a 12MP high-resolution sensor combined with edge and backend dewarping to provide flexible display modes, including digital PTZ, panorama, and quad view. Powered by the AI Engine Gen 2 with deep neural network acceleration, the camera enables intelligent event detection and advanced video analytics, enhancing operational efficiency and reducing false alarms. High Dynamic Range (HDR) and superior low-light sensitivity ensure optimal performance in challenging lighting conditions, while multi-codec support (H.265/H.264/MJPEG) with quad streaming delivers efficient bandwidth management without compromising video quality.

Designed for seamless system compatibility, the camera integrates effortlessly with Vicon Valerus™ VMS as well as a wide range of ONVIF-compliant platforms, supporting ONVIF Profiles S, G, T, and M. Additional features include a true day/night function with ICR, 3D motion-compensated noise reduction (MCTF), integrated IR LEDs with up to 15m illumination distance, and on-board storage via MicroSD/SDHC/SDXC cards. With its advanced imaging technology, rugged design, and intelligent analytics, the Roughneck® Pro V2012FE-B offers a comprehensive, reliable, and future-ready panoramic surveillance solution for security professionals.

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Product at a Glance

- ▶ 12MP Resolution
- ▶ Edge Dewarping/Backend Dewarping
- ▶ AI Engine Gen 2 (Deep Neural Network Accelerated Engine)
- ▶ Multiple Dewarp Display Mode
Digital PTZ/ Panorama View/
Quad View
- ▶ HDR and High Sensitivity
- ▶ Multi Codec support
(H.265/H.264/MJPEG)
- ▶ Quad Streaming
- ▶ True Day/Night function (ICR)
- ▶ 3D Motion Compensated
Noise Reduction (MCTF)
- ▶ Micro SD/ SDHC/ SDXC Card support
- ▶ IR LED (working distance up to 15m)
- ▶ Weatherproof (IP66)
- ▶ Vandal Proof IK10
- ▶ ONVIF Profile S/ G/ T/ M support

Specifications

Model	V2012FE-B
Camera	
Image Sensor:	Sony 12.5M, 1/1.6" Sony Progressive CMOS
Max Resolution:	3552 (H) X 3556 (V) (12MP)
Image settings	Exposure, White Balance, Brightness, Sharpness, Contrast, Saturation, Hue, IR Threshold, Noise Reduction, Backlight Compensation, Text Overlay, Privacy Mask
Video Content Analysis (VCA)	Motion Detection, Tampering, Audio detection, Line Crossing, People Counting Human/Vehicle Classification Object Classification
Electronics Shutter Speed:	Auto: 1~ 1/10,000 sec, Manual
Day/Night Performance:	Removable IR-cut filter
High Dynamic Range	Yes
Signal-to-Noise Ratio:	≥ 50 dB
Lens	
Type:	1/1.6" Fisheye Lens, F2.0
Focal Length	1.7mm
Network Video Transmission	
Network:	10/100/1000 Mbps Base-T: RJ-45; TCP/IP-based Ethernet network
Image Compression:	H.264; H.265; M-JPEG
Resolution:	3552x3556, 2560x1440, 2048x1536, 2304x1296, 1920x1080 (1080P), 1600x1200, 1440x1080, 1600x900, 1280x960/720, 800x600, 640x480/360, 320x240/180
Protocol:	ARP, PPPOE, IPV4/V6, ICMP, IGMP, QOS, TCP, UDP, DHCP, UPnP, SNMP, SMTP, RTP, RTSP, HTTP, HTTPS, FTP, NTP, DDNS, Config, ONVIF Profile S/G/T/M
Streaming:	Up to 4 individually configurable streams in H.265/H.264/MJPEG Configurable resolution/frame rate/bandwidth LBR/VBR/CBR in H.265/H.264
Frame Rate:	30/25 fps
Web Browser:	Microsoft® Edge®; Google® Chrome®, Mozilla® Firefox®
Security:	User Authentication/HTTPS/IP Filter/IEEE 802.1x
Event Trigger:	Motion Detection/Tampering/Audio detection
Notifications:	Send message via Email/record to FTP/NAS/SD card, record JPG/mp4
Users:	Live viewing for up to 10 clients
Audio I/O:	1/1 (line in/line out), Microphone built-in, Speaker Line out
Audio Streaming:	G.711/G.726/ AAC/ LPCM; 2 Way
Camera	
Alarm Relay:	1 In and 1 Out
Storage:	Support for microSD/ microSHC/ microSDXC card (up to 512 GB max) Support for recording to NAS

Specifications

Model	V2012FE-B
Mechanical	
Construction:	Housing: White aluminum base. Bubble: PC.
Mounting:	Surface mounting: wall or ceiling; refer to ordering information for mounting options
Dimensions:	147x62.8 mm
Weight:	2 lb (0.9 kg)
Electrical	
Input Power	PoE+ IEEE802.3af, class 4, max 12.90 watt DC12V, max 15.24 watt
Power Consumption	12.9W (PoE), 15.2W (12V DC), or 13.2W
Controls and Connectors:	PoE, Video, Data: RJ-45; Power: 12 VDC plug; Alarm In/Out: terminal block; Audio In/Out; Reset button
Enviromental	
Operating Conditions	Operating Temp: -22° to 131° F (-30° to 55° C) without Heater, -131° to 131° F (-55° to 55° C) with Heater Humidity: 10% to 90%, non-condensing
Storage Conditions	-20° to 70° C
Approvals:	UL, FCC, CE, IP66, IK10, NDAA compliant;
Country of Origin:	Taiwan

Ordering Information

Model	V2012FE-B
Description	12.5 MP panoramic camera dome; fixed f/1.6" fisheye lens
Accessories	
V2000D-PM	Pendant mount: Provides pendant mounting configuration for use with SVFT-WM-1/SVFT-UWM-1/ SVFT-UCM-1/ SVFT-UPM-2, V-24CMB-4, V-20B-A-4
V2360W-PLATE	Adapter Plate: Allows the V2012FE-B to be mounted on a 4x4 electrical box
V2000B-BOX	Backbox: For ease of cabling; compatible with V-24CMB-4 corner mount and V-20B-A-4 pole mount adapter
V2360W-ICD	In-Ceiling Mount: Allows V2012FE-B to be mounted in a drop ceiling
V2360W-ICH	In-Ceiling Mount: Allows V2012FE-B to be mounted in a hard ceiling

Dimensional Drawing

