



# Fixed Dome Network Camera FD8355HV/55EHV



1.3MP • WDR Pro II • 30M IR • Smart IR •  
3DNR • Smart Focus • Low Light • IP66 • IK10

VIVOTEK FD8355HV/55EHV are professional outdoor network dome cameras offering up to 60 fps @ 1.3-Megapixel resolution with superb image quality.

Featuring the new improved Wide Dynamic Range Technology WDR Pro II, it provides extreme visibility in extremely dark & light environments with 4 shutter capture methods. Combined with 3D Noise Reduction Technology, which enables the FD8355HV/55EHV to capture clear, polished video under low-light conditions and reduce bandwidth from sensor noise, users can identify an increased level of image detail in extremely bright as well as dark environments.

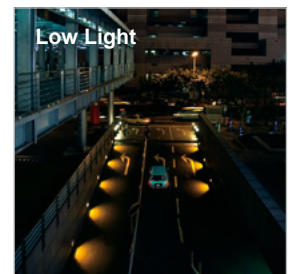
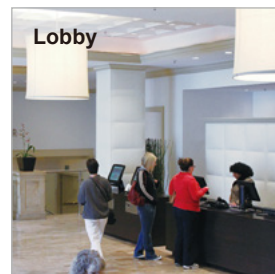
Additionally, as a professional day/night camera, FD8355HV/55EHV adopt Smart IR technology which prevents overexposure and provides noise reduction to adjust IR lighting intensity instantaneously based on changes in lighting in the ambient environment.

To provide top-notch image quality, FD8355HV/55EHV also come with a P-iris lens, which controls the iris with extreme precision with its built-in stepper motor. By using software controls, the lens maintains the iris opening at an optimal level at all times, resulting in superior sharpness and depth of field as well as image quality. Furthermore, for installers, properly adjusting the focus of a megapixel network camera can be difficult due to the level of image detail. Thus, FD8355HV/55EHV are also designed with VIVOTEK's Smart Focus System to make installation and adjustment easier by using remote focus and zoom adjustment.

The camera's IP66-rated housing is designed to help the camera body withstand rain and dust and high pressure water jets from any direction while the IK10 vandalproof rating provides protection against the vandalism and impact. Additionally, the wide temperature range further enhances the FD8355EHV's performance and reliability in extremely cold and hot weather.

## Features

- 1.3-Megapixel CMOS Sensor
- 30 fps @ 1280x1024;  
60 fps @ 1280x1024 (One-stream mode only)
- Motorized, P-iris Lens
- Removable IR-cut Filter for Day & Night Function
- Built-in IR Illuminators, Effective up to 30 Meters
- Smart IR Technology to Avoid Overexposure
- 3D Noise Reduction for Low-light Conditions
- WDR Pro II to Provide Extreme Visibility in Extremely Bright and Dark Environments
- Smart Focus System for Remote and Precise Focus Adjustment
- Weather-proof IP66-rated and Vandal-proof IK10-rated Housing
- Supreme Night Visibility
- Video Rotation for Corridor View
- EIS (Electronic Image Stabilization) to Control Image Stability
- Extreme Weather Support (FD8355EHV)



## Technical Specifications

Model	FD8355HV/55EHV	<b>Intelligent Video</b>	Video Motion Detection	Triple-window video motion detection
<b>System Information</b>		<b>Alarm and Event</b>	Alarm Triggers	Video motion detection, manual trigger, digital input, periodical trigger, system boot, recording notification, camera tampering detection
CPU	Multimedia SoC (System-on-Chip)	Alarm Events	Alarm Events	Event notification using digital output, HTTP, SMTP, FTP and NAS server File upload via HTTP, SMTP, FTP and NAS server
Flash	256MB	<b>General</b>	Smart Focus System	Remote focus
RAM	384MB	Connectors	Connectors	RJ-45 for Network/PoE connection Audio input/output TV output AC 24V power input DC 12V power input Digital input*1 Digital output*1
<b>Camera Features</b>		LED Indicator	LED Indicator	System power and status indicator
Image Sensor	1/3" Progressive CMOS	Power Input	Power Input	DC12V/AC24V IEEE 802.3af PoE
Maximum Resolution	1280x1024(1.3MP)	Power Consumption	Power Consumption	FD8355HV: DC Max. 8 W AC Max. 8.8 W PoE Max. 10.6 W FD8355EHV: DC Max. 25.2 W (Heater on), 8 W (Heater off) AC Max. 30.3 W (Heater on), 8.8 W (Heater off) PoE Max. 10.6 W
Lens Type	Vari-focal, Remote Focus	Dimensions	Dimensions	Ø: 173mm x 115 mm
Focal Length	f = 3 ~ 10 mm	Weight	Weight	Net: 1215 g
Aperture	F1.3 ~ F2.5	Casing	Casing	Weather-proof IP66-rated housing Vandal-proof IK10-rated housing
Auto-iris	P-iris/DC-Iris(Reserved)	Safety Certifications	Safety Certifications	CE, LVD, FCC Class A, VCCI, C-Tick, UL
Field of View	30° ~ 95° (Horizontal) 24° ~ 75° (Vertical) 39° ~ 123° (Diagonal)	Operating Temperature	Operating Temperature	FD8355HV: Starting Temperature: -10°C ~ 50°C (14°F ~ 122°F) Working Temperature: -20°C ~ 50°C (-4°F ~ 122°F) FD8355EHV: Starting Temperature: -40°C ~ 50°C (-40°F ~ 122°F) (PoE: -10°C ~ 50°C) Working Temperature: -50°C ~ 50°C (-58°F ~ 122°F) (PoE: -20°C ~ 50°C)
Shutter Time	1/5 sec. to 1/10000 sec.	Warranty	Warranty	36 months
WDR Technology	WDR Pro II	<b>System Requirements</b>	Operating System	Microsoft Windows 7/Vista/XP/2000
Day/Night	Removable IR-cut filter for day & night function Smart IR Technology to avoid overexposure (WDR on)	Web Browser	Web Browser	Mozilla Firefox 7~10 (streaming only) Internet Explorer 7/8/9/10/11
Minimum Illumination	0.05 Lux @ F1.3 (Color) 0.001 Lux @ F1.3 (B/W)	Other Players	Other Players	VLC: 1.1.11 or above Quicktime: 7 or above
Pan/tilt/zoom	ePTZ:	<b>Included Accessories</b>	CD	User's manual, quick installation guide, Installation Wizard 2, ST7501 32-channel recording software
Functionalities	48x digital zoom (4x on IE plug-in, 12x built in)	Others	Others	Quick installation guide, warranty card, mounting plate, alignment sticker, L-type hex key wrench, desiccant bag, screws, hex nut, double-sided tape, AV cable, waterproof connector & bushing, DC connector
IR Illuminators	Built-in IR illuminators, effective up to 30 meters IR LED*4, with Smart IR Technology	<b>Dimensions</b>		
On-board Storage	MicroSD/SDHC/SDXC card slot			
<b>Video</b>				
Compression	H.264, MJPEG			
Maximum Frame Rate	30 fps @ 1280x1024 60 fps @ 1280x1024 (One-stream mode only) In both compression modes			
Maximum Streams	2 simultaneous streams			
S/N Ratio	64dB			
Dynamic Range	Up to 140dB			
Video Streaming	Adjustable resolution, quality and bitrate			
Image Settings	Time stamp, text overlay, flip & mirror configurable brightness, contrast, saturation, sharpness, white balance, exposure control, gain, backlight compensation, privacy masks, scheduled profile settings, 3D noise reduction, seamless recording, video rotation, EIS			
<b>Audio</b>				
Audio Capability	Two-way audio (full duplex)			
Compression	AAC, G.711, G.726			
Interface	External microphone input Audio output			
<b>Network</b>				
Users	Live viewing for up to 10 clients			
Protocols	IPv4, IPv6, TCP/IP, HTTP, HTTPS, UPnP, RTSP/RTP/RTCP, IGMP, SMTP, FTP, DHCP, NTP, DNS, DDNS, PPPoE, CoS, QoS, SNMP, 802.1X, UDP, ICMP			
Interface	10 Base-T/100 BaseTX Ethernet (RJ-45) *It is highly recommended to use standard CAT5e & CAT6 cables which are compliant with the 3P/ETL standard.			
ONVIF	Supported, specification available at <a href="http://www.onvif.org">www.onvif.org</a>			

## Compatible Accessories

### Mounting Kits



**AM-51A**  
Mounting Adapter



**AM-520**  
Mounting Adapter



**AM-215**  
L Shape Bracket



**AM-516**  
Adaptor Ring

### PoE Kits



**AW-FED-0500**  
4-port Unmanaged PoE Switch

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VIVOTEK INC.  
6F, No.192, Lien-Cheng Rd., Chung-Ho,  
New Taipei City, 235, Taiwan, R.O.C.  
T: +886-2-82455282 F: +886-2-82455532  
E: sales@vivotek.com

VIVOTEK USA  
2050 Ringwood Avenue,  
San Jose, CA 95131  
T: 408-773-8686 F: 408-773-8298  
E: salesusa@vivotek.com

VIVOTEK Europe  
Randstad 22-133, 1316BW Almere,  
The Netherlands  
T: +31(0)36-5298-434  
E: saleseurope@vivotek.com

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