

V1R4452AE2

5MP Day & Night Fixed IR IP Turret Camera



The V1 series cameras are specifically designed for entry-level AI applications, supporting EDGEFENCE functionality. They perform image recognition and event processing at the edge without the need for additional AI processing units or PC intermediaries, enabling an efficient edge computing architecture.

Primarily used for intelligent surveillance, automated management, and security protection, the V1 series cameras feature human and vehicle recognition capabilities, serving as an advanced electronic fence. These features make the V1 series stand out among similar smart cameras, making them ideal for scenarios requiring basic recognition and event processing.

5MP

ONVIF® | S T G M

- 5 megapixel CMOS image sensor
- 5MP H.265/HEVC and H.264/AVC high-performance video compression
- Simultaneous streaming of H.265 and H.264 encoded streams
- 3D noise reduction
- 2D WDR function
- HDR function up to 120dB
- IVS
- Motion / Tamper / Audio / Alarm / Network lost detection / Global Counter / Virtual Input / Metadata
- SMART event
- High efficiency IR LED, radiant distance up to 30m
- Day & Night (IR cut removable)
- Built-in highly sensitive microphone
- 2-way audio supported
- Digital I/O : 1 in, 1 out
- ONVIF Profile S , T , G , M supported
- IP67 rain and dust resistant
- Vandal resistant approve IK10



Video Performance	
Min. Illumination	Color: 0.08 Lux at F2.2 ; B/W: 0.01 Lux at F2.2 ; 0 Lux with IR LED ON
Lens / Night Vision (Infrared LED)	
Focal Length	2.8mm
Iris	F2.2
Iris Control	Fixed IRIS
Angle of View	98 ° (H) , 71.7 ° (V) , 127.9 ° (D)
Peak Wavelength	850nm
Beam Spread	60° , 90°
Radiant Distance	30M
Sensor	
Pick Up Element	1/2.8" CMOS image sensor
Effective Pixels	2608 (H) × 1964(V) = 5,122,112 (Pixels)
Light Sensor	Yes
Certifications	
CE / FCC / UKCA	Yes, EMI Class A
BSMI	Yes, CNS 15963
IP Rating	IP67
Vandal Resistant Rating	IK10 (Casing)
PC Requirements	
CPU	Intel® Core™ i7 or higher grade
OS	Windows 7 or above
RAM	8GB or above, Dedicated Graphics Card
Web Browser	Microsoft® Internet Explorer® 9 or above, Microsoft® Edge
Input / Output	
Audio Input / Output	Audio 1 output, Mono, Terminal Block
Audio	Two-way Audio, G.711 u-law / PCM / AAC, Built-in Microphone
Alarm Input / Output	Digital 1 input (TTL, +3 – 5VDC) / 1 Output (MOS Relay contact N.O., Load.max. 40VDC, 450mW / 300mA, 450mW) , Terminal Block
Video Streaming	
Video Compression	H.265/HEVC main profile, H.264 main and high profile , Motion JPEG
Video Streaming	RTP/HTTP, RTP/TCP, RTP/UDP, Multicast streams in H.265 and H.264 and Motion JPEG, configurable frame rate and bandwidth
Number of Streams	3
Video Bitrate	128Kbps – 12Mbps; Frame rate and bit rate controllable on-the-fly; VBR / CBR / GOP supported, Fixed bitrate
Network Security	
Encryption	Base64 HTTP encryption, HTTPS encryption
Authentication	Digest HTTP authentication, RTSP authentication, DDNS via HTTPS
Address Filter	Yes
Access	Multiple user access levels with password protection
User accounts	10 user accounts available
Multi IP Address	Yes
Video Resolutions (H x V)	
Resolution	5MP(2592 x 1944), 4MP(2304 x 1728), 3.1MP(2048 x 1536), 3MP(2304 x 1296), 2MP(1920 x 1080), 1.3MP(1280 x 960), 1MP(1280 x 720), D1(720 x 480, 720 x 576), VGA(640 x 480), CIF(352 x 240)
Maximum Frame Rate	Normal mode: 60Hz: 30 FPS @ 2592 x 1944 50Hz: 25 FPS @ 2592 x 1944 HDR mode: 60Hz: 30 FPS @ 2592 x 1944 50Hz: 25 FPS @ 2592 x 1944
Video Functions	
Scanning System	Progressive Scan
Infrared Cut Filter	Auto / Day (Color) / Night (Mono) / Schedule

White Balance	Auto / Manual
Electrical Shutter	1/30(1/25)s – 1/30000s
Sense Up	Off / x2 / x4 / x8 / x16
Sense Up+	Yes
Auto Gain Control	60 dB Variable Gain
S/N Ratio	More than 50dB (AGC off)
3D Noise Reduction	Off / 1 – 32 Selectable
2D WDR	Off / Auto / x2 / x3 / x4
High Dynamic Range	Up to 120dB (by HDR mode, 2 shutter line interleave)
Privacy Masking	Off / On (4 zones)
Image Effects	Brightness, Contrast, Hue, Saturation, Sharpness, Mirror, Flip, Rotation, Defog
EV (Exposure Value)	Adjustable
Integration	
Mobile Application	Integrated to LILIN mobile app (LILIN Pro) iPhone, iPad, Android support
Video Management	ONVIF Profile S / ONVIF Profile T / ONVIF Profile G / IVS events, LILIN Navigator Enterprise 5.0 support, Third party VMS through LILIN HTTP API
SD Card Recording	Support (128GB) Micro SD/SDHC/SDXC card for circular recording (card is not included)
SD Card Compatible List	Micron - 32GB,64GB,128GB,256GB,512GB, 1TB (SDXC, U1, C10) Transcend - 4GB SD,8GB SDHC,32GB SDHC C10,128GB SDXC C10 SanDisk - 8GB SDHC, 32GB, 64GB, 128GB SDHC C10 Kingston - 64GB SDXC C10
Maintenance	Firmware update via HTTP and IP Scan; Firmware available at website
IVS Basic 1.0	Motion / Tamper
Event Triggers	Motion / Tamper / Network lost detection / Global Counter / Virtual Input / Metadata
Event actions	FTP / SMTP / HTTP post / SD card / SAMBA / Push Service / Global Counter / Virtual Input
Languages	English, Traditional Chinese, Simplified Chinese, Russian, Italian, Hungarian, Korean, French, Turkish, Arabic, Spanish, Japanese
Network	
Ethernet	10BASE-T/100BASE-TX, RJ-45
OSD	Position configurable text overlay for date, time, camera ID, event status
CPU, Memory	Embedded Single core ARM Cortex-A9 960MHz CPU & (DDR 512MB / Flash 128MB)
OS	Embedded Linux 4.19
Network Protocols	IPv4, TCP, UDP, HTTP, HTTPS, QoS, NTP, DDNS, FTP, ARP, DHCP, PPPoE, DNS, RTSP, RTCP, Telnet, ICMP, IGMP, SMTP, Multicast, ONVIF Profile S, ONVIF Profile T, ONVIF Profile G, ONVIF Profile M
Max number of online users	10 simultaneous users
Video Display	LILIN Universal ActiveX & HTML5
Log	Event & operation log & IVS event log
Schedule	Support holiday list
Network Storage	NAS (Support SAMBA/CIFS)
Power and Environment	
Starting Temperature	-10° C – +50° C (-14° F – 122° F)
Operating Temperature	-30° C – +50° C (-22° F – 122° F)
Storage Temperature	-25° C – +60° C (-13° F – 140° F)
Humidity	0% – 90% RH
Power Supply	DC12V ±10% / PoE (IEEE 802.3af compliant)
Power Consumption	DC12V, 4.6W / POE, 5.7W
Mechanical	
Dimension	Ø111 x 87(H) mm
Weight	390g
Casing Material	Aluminum alloy
Warranty	
Warranty	2 Year(s)

Bracket



BCR06W-V1

Wall-mount

Bracket



BTD04W-V1

Wall-mount