Thermal-Line outdoor thermal bullet camera

- Thermal bullet camera Thermal-Line for outdoor use
- Thermal camera with resolution 160 x 120, 3.1 mm thermal lens
- Detection of people up to 53 meters and vehicles up to 162 meters
- Intelligent detection (VCA)
- IP/ANALOGIC video output
- 1 audio input / 1 audio output
- 2 inputs / 2 alarm outputs
- MicroSD slot
- Lightning-proof 6KV
- IP66
- 12V DC
- PoE.

Reference / Model	HYU-660 / HYU-660
Description	
Camera equipped with highly sensitive thermal sensors and a graphics processor which runs video content analysis (VCA) algorithms.	
This camera is an excellent solution for short range indoor and outdoor perimeter detection, fire prevention, predictive maintenance and other applications.	
Features	
160x120 thermal resolution (upgraded to 320x240)	
Uncooled vanadium oxide focal plane arrays	
NETD <40 mK	
3.1 mm thermal lens	
Temperature range: -20°C ~ 150°C	
Temperature accuracy: ±8°C	
15 color palettes	
IP66 protection rating	

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Supports PoE (802.3af)	
Thermal camera	
FPA (focal plane arrays) sensor not cooled with vanadium oxide	
160x120 thermal resolution (output resolution scaled to 320x240)	
Pixel spacing: 17µm	
Thermal sensitivity (NETD): <40 mk (@25°C, f/1.0)	
Spectral range: 8 µm ~ 14 µm	
Focal length (thermal): 3.1 mm	
MRAD: 5.48 mRad	
Angle of view (thermal): 50° x 37.2	
Minimum focusing distance of 0.2 meter	
Aperture F/1.1	
Effective distance on people: Detection (91 m), recognition (23 m), identification (11 m)	
Effective distance on vehicles: Detection (280 m), recognition (70 m), identification (35 m)	
Intelligent functions	
Supports up to 8 VCA rules of up to 4 typologies (line crossing, intrusion, region entry and exit)	
Supports 3 types of temperature measuring rules, 21 rules (10 points, 10 regions and 1 line)	
Temperature range: -20°C ~ 150°C	
Temperature accuracy: ±8°C	
Fire detection: Dynamic detection of fire points, up to 10 fire points detectable	
IP communication and integration	
Compression formats: H.265/H.264/MJPEG, H.265+/H.264+ (baseline/main/high profile)	
Stream 1 thermal camera: 160x120 (25 ips)	
Stream 2 thermal camera: 160x120 (25 fps)	
Audio Compression: G.711u/G.711a/G.722.1/MP2L2/G.726/PCM	
1 auto-adaptive RJ45 10/100M port	

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Protocols: IPv4/IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTCP, RTP, TCP, UDP, IGMP, ICMP, DHCP, PPPoE	
Up to 20 simultaneous displays	
Up to 32 users, 3 levels: administrator, operator, user	
API, ISAPI and third-party management gateway support	
Compatible with IE9+, Chrome 31 to 44, Firefox 30 to 51, Safari 5.02+ browsers	
2 alarm inputs / 2 alarm outputs	
1 audio input / 1 audio output	
MicroSD/SDHC/SDXC card slot (up to 128 GB), with support for manual or alarm recording	
BNC output 1.0V [p-p] / 75Ω (PAL/NTSC)	
Electrical and environmental	
Power supply: 12V DC (±20%), PoE 802.3at, class 4	
Consumption: 1.7A, max. 8W (12V DC)	
Operating temperature from -40°C ~+65°C	
Relative humidity: ≤90% (non-condensing)	
Degree of protection IP66	
Lightning-proof 6KV	
Physical characteristics	
Metal housing	
Dimensions: 113.5 (W) x 113 (H) x 352.4 (L) mm	
Weight: 1.45 kg	
Includes wall bracket and tube base	

Note: Effective clearances shown are nominal values and should be used as an estimate. Consult your sales representative for recommended detection distances with our Vaelsys perimeter system.