

RADAR/CAMERA **INTEGRATED SURVEILLANCE TERMINAL**

VALLUS

Smart and affordable surveillance terminal that adopts multi-sensor and multi-stage decision making strategy to maximize situational awareness.

MULTI-SENSOR TECHNOLOGY

The highly compact and robust terminal comes with built-in radars and cameras, plus an edge-computing module, all inside a single unit. The user benefits from the sensitivity of the radar, as well as visual confirmation of the camera.

AI EMPOWERED MULTI-STAGE DECISION-MAKING STRATEGY

The AI-empowered multi-stage decision-making algorithm elevates situational awareness to the next level. Not only providing more accurate target classification, but it also successfully liberates users from false positives caused by wind, plants, small animals, and shadows in a standard single-sensor security system.

EASY INTEGRATION

The modular design and user-friendly interface make the product easy to deploy and use. The open-architecture communication protocols allow for a seamless integration into your current systems.

24/7 PROTECTION IN ALL CONDITIONS

The terminal is immune to many environmental conditions, such as light, rain, dust, fog, and smoke. Built with an industry-certified rugged design, it ensures stable performance and continuous, all-weather protection even in the harshest environments.



KEY BENEFITS:

- Built-in radar, camera, and edge computing
- Detect and track intrusions of walkers and boats with speed, distance information, as well as visual confirmation
- AI empowered multi-stage decision-making algorithm for accurate and reliable intrusion detection with extremely low false alarms
- Smart target classification
- Affordable system. Easy to deploy

RADAR/CAMERA INTEGRATED SURVEILLANCE TERMINAL SPECIFICATIONS

Model	VF200	VF060-F1	VF060-F2
Capability			
Max dection range	750 ft (walker)	130 ft (walker)	200 ft (walker)
Range accuracy	±3.2 ft	±3.0 ft	±3.0 ft
Maximum detectable target velocity	98.4 ft	65.6 ft	65.6 ft
Max simutaneous tracking	32	8	8
Radar			
Radar type	FMCW MIMO Radar		
Frequency band	24GHz	61.5GHz	61.5GHz
Range accuracy	± 3 ft		
Field of view	± 10° (horizontal) ± 6.5 (vertical)	+/-45° (horizontal) +/-10 (vertical)	+/-45° (horizontal) +/-10 (vertical)
Angular accuracy	± 1°	± 0.5°	+/-0.5°
Camera			
Camera	2Channel ,HD 2160 8MP 3840x2160 @25fps H.264, H265 1/2.8" 8 Megapixel CMOS,0.0005lux,F2.0	1Channel ,HD 1080 2MP 1920x1080 @25fps H.264 Infrared Supplement Light (Day & Night) 1/2.9" 2 Megapixel CMOS,, 0.011lux,F1.6	
Field of view (horizontal)	41.5° (near focus); 8°(far focus)	83.8°	39.8°
Field of view (vertical)	23.5°(Near focus) 4.5°(Far focus)	42.7°	22.8°
General			
Power supply	DC 24V 5A	DC 12V 3A/POE	
Power consumption	70W (peak)	14W (typical) 30W (peak)	
Network protocol	TCP/IP		
Communication interface	10/100/1000M Auto- Negotiating Ethernet Port, RJ45;Relay*1 (0.5A/125VAC)	10/100/1000M Auto-Negotiating Ethernet Port, RJ45; RS485 (115200 Modbus);Relay*1(0.5A/125VAC); GPIO Optocoupler*2 (10mA/5V, Optoisolated 2500Vrms)	
IP rating	IP67	IP66	IP66
Mounting height	5 ~ 13 ft	6 ~ 10 ft	6 ~ 10 ft
Working temperature	-40~158°F	-4~140°F	-4~140°F
Dimension	12.4*10.2*7.3 in	8.6*3.5*5.6 in	8.6*3.5*5.6 in
Weight	11 lb	1.4 lb	1.4 lb