



EcoAmbienteSalerno

In liquidazione

ECOAMBIENTE SALERNO S.p.A.

Ente d'Ambito per il servizio di gestione integrata dei rifiuti urbani
Ambito Territoriale Ottimale "Salerno"

Prot.: SA. / 2421

Data 24-7-2020

DETERMINAZIONE DEL LIQUIDATORE UNICO

Determinazione n. 415 del 27.07.2020

- Affidamento (ex art. 36, co. 2, lettera "a", D.Lgs. 50/2016) di fornitura e posa in opera di termocamere presso l'Impianto T.M.B. di Battipaglia (SA);
- Nomina RUP.

IL LIQUIDATORE UNICO

Premesso che:

- la «EcoAmbiente Salerno SpA in Liquidazione» è una società di capitali a totale partecipazione pubblica, istituita dall'Ente Provincia di Salerno, socio unico, ai sensi della Legge del 26.02.2010 n. 26, avente ad oggetto la gestione del ciclo integrato dei rifiuti e delle relative infrastrutture, nell'ambito territoriale della Provincia di Salerno;
- la Legge Regionale Campania n. 14/2016, all'art. 40, comma 3, stabilisce che: «Le società provinciali, istituite ai sensi del decreto-legge 30 dicembre 2009, n. 195 (Disposizioni urgenti per la cessazione dello stato di emergenza in materia di rifiuti nella regione Campania, per l'avvio della fase post emergenziale nel territorio della regione Abruzzo ed altre disposizioni urgenti relative alla Presidenza del Consiglio dei Ministri ed alla protezione civile) convertito, con modificazioni, dalla legge 26 febbraio 2010, n. 26, continuano a svolgere le funzioni alle stesse assegnate fino alla data dell'effettivo avvio di esercizio da parte del nuovo soggetto gestore individuato ai sensi della presente»;
- in data 25.06.2020, l'«Ente d'Ambito per il Servizio di Gestione Integrata dei Rifiuti Urbani – Ambito Territoriale Ottimale di Salerno» ha acquistato la titolarità di tutte le azioni della «EcoAmbiente Salerno SpA in Liquidazione»;
- la «Ecoambiente Salerno SpA in Liquidazione» è gestita da un Organo Amministrativo in composizione monocratica (il sottoscritto Liquidatore Unico), per effetto di quanto deliberato dall'Assemblea Straordinaria dei Soci del 21.03.2018;

SOCIETÀ SOGGETTA A DIREZIONE E CONTROLLO ENTE D'AMBITO
"SALERNO" EX ART 2497 C.C.

SEDE LEGALE

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Member of CIBQ Federation



CERTIFIED MANAGEMENT SYSTEM
ISO 9001
CERTIFICATO N. 39806/20/S



Premesso, altresì, che:

a) sia al fine di dare ottemperanza alle «*Linee guida regionali contenenti le prescrizioni di prevenzione antincendio*» afferenti gli impianti di trattamento rifiuti (approvate con Delibera di G.R.C. 20.05.2019 n. 223), sia per ragioni di sicurezza e migliore vigilanza, è necessario integrare il sistema di videosorveglianza attualmente in opera presso l'impianto T.M.B. di Battipaglia (affidato in gestione a questa Società pubblica), attraverso l'installazione di opportune telecamere termiche (termocamere);

b) con nota acquisita al prot. aziendale 20.07.2020 n. 2622, il geom. Maurizio Buccella (dipendente aziendale e Responsabile dell'Impianto T.M.B. precitato) ha inoltrato l'offerta al riguardo fatta pervenire dall'O.E. «*Idel Impianti di Ascolese Michele*» (con Sede in Sarno (SA), al Viale Margherita, n° 64; cap: 84087; C.F.: SCLMHL72E29I438S; P.Iva: 04053330652), il quale ha proposto di erogare la prestazione richiesta da questa S.A. al prezzo complessivo di € 34.938,00, oltre iva;

c) notizie informalmente assunte dal mercato confermano che la sopra citata Ditta offerente è operatore economico serio, affidabile ed esperto nel settore;

d) il sopra indicato importo complessivo del prezzo richiesto consente – in quanto inferiore alla soglia prevista dall'art. 36, co. 2, lettera "a", D.Lgs. 50/2016 – l'«*affidamento diretto*» della commessa, nonché la rinuncia (ex art. 103, co. 11, D.Lgs. 50/2016 ed in base a quanto chiarito anche dalla Delibera Anac numero 140 del 27 febbraio 2019) alla «*garanzia definitiva*» prevista dal Codice dei contratti pubblici;

DETERMINA / DISPONE:

1) di affidare - ai sensi dell'art. 36, comma 2, lettera "a", del D.Lgs. 50/2016 – la commessa indicata in epigrafe, e meglio specificata nella sopra riportata parte motiva, alla Società «*Idel Impianti di Ascolese Michele*» (con Sede in Sarno (SA), al Viale Margherita, n° 64; cap: 84087; C.F.: SCLMHL72E29I438S; P.Iva: 04053330652), alle condizioni di esecuzione indicate nell'offerta fatta pervenire dall'O.E. citato (prot. aziendale 20.07.2020 n. 2622), cui espressamente si rinvia;

2) che il valore dell'affidamento («*Impegno di spesa*») è pari ad € 34.938,00 (trentaquattromilanovecentotrentotto/00), oltre iva, che graveranno sui fondi propri di bilancio di questa Società pubblica;



3) di rinunciare, con riferimento all'affidamento in parola, per le ragioni esposte nella suesposta parte motivata, alla «*garanzia definitiva*» prevista dal vigente Codice dei contratti pubblici;

4) che l'affidamento in questione costituisce "appalto di fornitura", sicché se ne dispone la pubblicazione (ex art. 29, D.Lgs. 50/2016, in combinato disposto con le «*Nuove linee guida per l'attuazione della normativa in materia di prevenzione della corruzione e trasparenza da parte delle società e degli enti di diritto privato controllati e partecipati dalle pubbliche amministrazioni e degli enti pubblici economici*», approvate con delibera del Consiglio dell'Anac 8.11.2017 n. 1134) sul «*Profilo committente*» (Sito web aziendale) di questa Società, Sezione «*Amministrazione trasparente*», Sotto-sezione «*Bandi di gara e contratti*»;

5) di nominare, quale RUP/DEC dell'affidamento sopra indicato, il Geom. **Buccella Maurizio**, dipendente di questa Società, il quale provvederà a tutti gli adempimenti (operativi, amministrativi e di legge) necessari per il corretto affidamento della commessa sopra indicata e per il regolare andamento del conseguente rapporto contrattuale con l'O.E. affidatario;

6) che il presente provvedimento venga trasmesso al Collegio Sindacale, al Revisore Unico, al RUP/DEC ed al Direttore Amministrativo per gli adempimenti consequenziali di rispettiva competenza.

«EcoAmbiente Salerno SpA in Liquidazione»
Il Liquidatore Unico
dott. Vincenzo Petrosino

Segreteria Ecoambiente Salerno

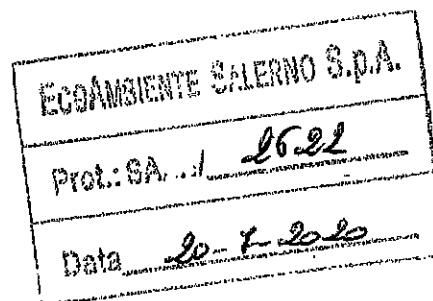
Da: Maurizio Buccella <maurizio.buccella@ecoambientesalerno.it>
Inviato: domenica 19 luglio 2020 11:08
A: segreteria@ecoambientesalerno.it
Oggetto: I: Offerta ampliamento impianto di videosorveglianza
Allegati: Offerta Eco Ambiente Battipaglia.pdf; scheda tecnica NVR Hikvision DS-9600NI-18.pdf; scheda tecnica Switch Mikrotik Fiberbox.pdf; scheda tecnica thermal and optical turret camera DS-2TD1217-2V1.pdf; scheda tecnica thermal bullet camera DS-2TD2136-7V1.PDF; scheda tecnica thermal bullet camera DS-2TD2137-10V1.PDF

Da protocollare e restituire stesso mezzo.

Saluti

geom. Maurizio Buccella
Resp.le Siti e Discariche - Resp.le TMB di Battipaglia

Sede Amministrativa
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Da: info@idelimpianti.it <info@idelimpianti.it>
Inviato: venerdì 17 luglio 2020 22:45
A: maurizio.buccella@ecoambientesalerno.it
Oggetto: I: Offerta ampliamento impianto di videosorveglianza



Offerta per l'ampliamento dell'impianto di videosorveglianza con l'integrazione di telecamere termiche presso il T.M.B. di Battipaglia.

Cordiali Saluti
Michele Ascolese

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Spett.le

EcoAmbiente Salerno SpA in Liquidazione

Via San Leonardo, snc - Loc. Migliaro

84131 - Salerno

INTEGRAZIONE IMPIANTO DI VIDEOSORVEGLIANZA ECOAMBIENTE

SALERNO - T.M.B. BATTIPAGLIA

Premesso che l'impianto di videosorveglianza attualmente presente presso il T.M.B. di Battipaglia è costituito da una serie di telecamere esterne (in numero di 26) del tipo IP dome e bullet, collegate con rete in fibra ottica ad un NVR posto in locale CED di recente installazione.

L'ampiammento dell'impianto prevede l'installazione di telecamere termiche come da preventivo sotto dettagliato, utilizzando ove possibile l'infrastruttura di rete esistente, ovvero integrandola.

Si prevedono le seguenti lavorazioni al costo indicato nella seguente offerta:

Impianto TVCC Termiche T.M.B. Battipaglia				
COMPUTO METRICO ESTIMATIVO				

Designazione dei lavori	u.m.	Q.tà	Pr. Unit. (€)	Pr. Totale (€)
Fornitura ed installazione di NVR marca Hikivision modello DS-9632NI-I8 32 ingressi IP.	n.	1	1.500,00	1.500,00
Fornitura ed installazione di hard disk marca Western Digital Purple modello HDDEVO-F4T, 4TB dedicato alla videosorveglianza	n.	1	110,00	110,00
Fornitura ed installazione di telecamera termica bullet IP ottica fissa marca Hikivision modello DS-2TD2136-7/V1 con adattatore da palo AREA P	n.	2	4.150,00	8.300,00

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Fornitura ed installazione di telecamera termica bullet IP ottica fissa marca Hikivision modello DS-2TD2137-10/V1 COMPOSTAGGIO	n.	3	3.540,00	10.620,00
Fornitura ed installazione di telecamera termica bullet bi spectrum DS-2TD1217-2/V1 con staffa a muro per Dome DS-1273ZJ-140 DEPOSITO RD	n.	2	1.533,00	3.066,00
Fornitura ed installazione di telecamera termica bullet bi spectrum DS-2TD1217-2/V1 con staffa a muro per Dome DS-1273ZJ-140 DEPOSITO STABILIZZATO	n.	2	1.533,00	3.066,00
Fornitura ed installazione di telecamera termica bullet bi spectrum DS-2TD1217-2/V1 con staffa a muro per Dome DS-1273ZJ-140 RICEZIONE	n.	2	1.533,00	3.066,00
Fornitura ed installazione di Switch 5 porte, porte 10/100 . Utilizzato per installazioni da esterno, dotato di custodia IP67 compresa cassetta di contenimento ove necessario	n.	4	370,00	1.480,00
Fornitura e posa in opera di cavo UTP cat.6E con armatura in acciaio inox antioditore. Interrato o in canali esistenti	qb	1	1.600,00	1.600,00
Collegamento elettrico nuove telecamere e nuovi switch	n.	18	60,00	1.080,00
Collegamento in fibra ottica alla rete LAN esistente con fibra multimodale 125/50 6 fibre comprese connessioni ottiche e cassette di connessione	qb	1	1.050,00	1.050,00

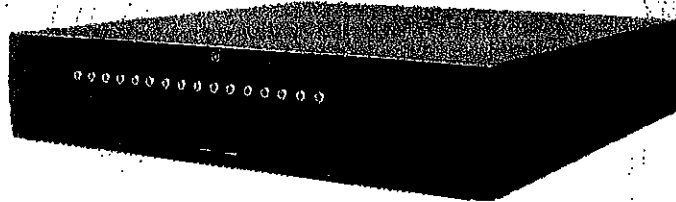
Totale lavorazioni IVA esclusa € **34.938,00**

Di cui stima oneri sicurezza euro 1.800,00

Si allegano principali schede tecniche

Idel Impianti
di Ascolese Michele
Viale Margherita, 64
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DS-9600NI-I8 SERIES NVR



Features and Functions

Professional and Reliable

- Dual-OS design to ensure high reliability of system running
- ANR technology to enhance the storage reliability when the network is disconnected
- HDD hot swap with RAID0, RAID1, RAID5, RAID6 and RAID10 storage scheme configurable
- Configurable normal or hot spare working mode to constitute an N+1 hot spare system

Video Input and Transmission

- Up to 64-ch 12 MP IP cameras can be connected
- Connectable to the third-party network cameras

Compression and Recording

- H.264+ compression effectively reduces the storage space and costs by up to 50%
- Full channel recording at up to 12MP resolution

HD Video Output

- HDMI1/VGA1 and HDMI2/VGA2 outputs provided
- HDMI1 Video output at up to 4K (3840 × 2160) resolution

Storage and Playback

- Up to 8 SATA interfaces and 1 eSATA interface connectable for recording and backup
- Smart search for efficient playback.
- 8/16-ch synchronous playback at up to 1080p resolution

Smart &POS Function

- Supports multiple VCA (Video Content Analytics) events
- Smart search for the selected area in the video; and smart playback to improve the playback efficiency
- Supports VCA search for fire/ship/temperature/temperature difference detection triggered video files
- POS Information overlay on live view and playback
- POS triggered recording and alarm

Network & Ethernet Access

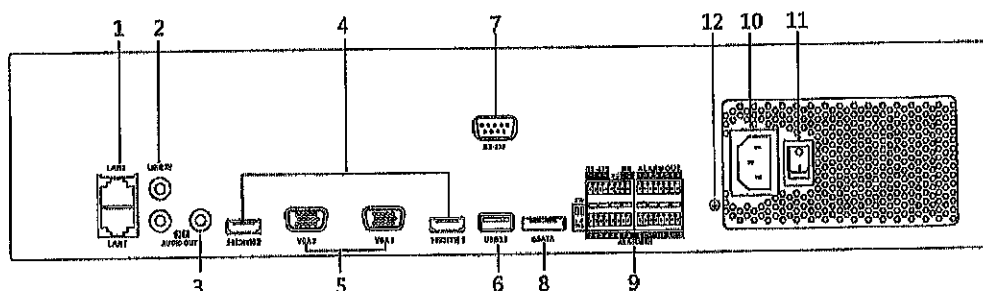
- Hik Cloud P2P & HIDDNS (Dynamic Domain Name System) for easy network management
- 2 Gigabit Ethernet network interfaces; Host and user authentication (up to 20 users)



Specifications

Model		DS-9608NI-I8	DS-9616NI-I8	DS-9632NI-I8	DS-9664NI-I8
Video/Audio Input	IP video input	8-ch	16-ch	32-ch	64-ch
	Two-way audio	Up to 12 MP resolution 1-ch, RCA (2.0 Vp-p, 1 k Ω)			
Network	Incoming bandwidth	128 Mbps	256 Mbps	320 Mbps	320 Mbps
	Outgoing bandwidth	or 200 Mbps (when RAID is enabled)			
	Remote connection	128			
Video/Audio output	Recording resolution	12 MP/8 MP/6 MP/5 MP/4 MP/3 MP/1080p/UXGA/720p/VGA/4CIF/DCIF/2CIF/CIF/QCIF			
	CVBS output (Optional)	1-ch, BNC (1.0 Vp-p, 75 Ω), resolution: PAL: 704 $\times$ 576, NTSC: 704 $\times$ 480			
	VGA1/HDMI1 output resolution	HDMI1: 4K (3840 $\times$ 2160)/60Hz, 4K (3840 $\times$ 2160)/30Hz, 2K (2560 $\times$ 1440)/60Hz, 1920 $\times$ 1080p/60Hz, 1600 $\times$ 1200/60Hz, 1280 $\times$ 1024/60Hz, 1280 $\times$ 720/60Hz, 1024 $\times$ 768/60Hz VGA1: 2K (2560 $\times$ 1440)/60Hz, 1920 $\times$ 1080p/60Hz, 1600 $\times$ 1200/60Hz, 1280 $\times$ 1024/60Hz, 1280 $\times$ 720/60Hz, 1024 $\times$ 768/60Hz			
	VGA2/HDMI2 output resolution	1920 $\times$ 1080p/60Hz, 1280 $\times$ 1024/60Hz, 1280 $\times$ 720/60Hz, 1024 $\times$ 768/60Hz			
	Audio output	2-ch, RCA (2.0Vp-p, 1 k Ω)			
Decoding	Decoding format	H.265/H.265+/H.264/H.264+/MPEG4/MJPEG			
	Live view/Playback resolution	12 MP/8 MP/6 MP/5 MP/4 MP/3 MP/1080p/UXGA/720p/VGA/4CIF/DCIF/2CIF/CIF/QCIF			
	Synchronous playback	8-ch	16-ch		
	Capability	4-ch @ 4K or 16-ch @ 1080p			
Network management	Network protocols	TCP/IP, DHCP, HIK Cloud P2P, DNS, DDNS, NTP, SADP, SMTP, NFS, iSCSI, UPnP™, HTTPS, RTP, UDP/IP, HTTP, FTP, SNMP			
Hard disk	SATA	8 SATA interfaces – NAS storage DS-A81024D HOT PLUG 24HDD SATA (6TB each) is optional			
	eSATA	1 eSATA interface			
	Capacity	Up to 6TB capacity for each HDD			
Disk array	Array type	RAID0, RAID1, RAID5, RAID6, RAID10			
	Number of arrays	4			
External interface	Network interface	2, RJ-45 10/100/1000 Mbps self-adaptive Ethernet interface			
	Serial interface	RS-232; RS-485; Keyboard			
	USB interface	Front panel: 2 $\times$ USB 2.0; Rear panel: 1 $\times$ USB 3.0			
	Alarm in/out	16/4			
General	Power supply	100 to 240 VAC, 50 to 60 Hz			
	Max. Power	200 W			
	Consumption (without hard disk)	$\leq$ 30 W			
	Working temperature	-10 to +55 $^{\circ}$ C (+14 to +131 $^{\circ}$ F)			
	Working humidity	10 to 90 %			
	Chassis	19-inch rack-mounted 2U chassis			
	Dimensions(W $\times$ D $\times$ H)	445 $\times$ 470 $\times$ 90 mm (17.5" $\times$ 18.5" $\times$ 3.5")			
	Weight (without hard disk)	$\leq$ 10 kg (22 lb)			

Physical Interfaces



Index	Description	Index	Description
1	LAN1/LAN2 Interface	7	RS-232 Interface
2	LINE IN	8	eSATA Interface
3	AUDIO OUT	9	Alarm In/Alarm Out
4	HDMI1/HDMI2 Interface	10	100 to 240 VAC power supply
5	VGA1/VGA2 Interface	11	Power Switch
6	USB 3.0 Interface	12	GND

Available Models

DS-9608NI-I8, DS-9616NI-I8, DS-9632NI-I8, DS-9664NI-I8

Distributed by



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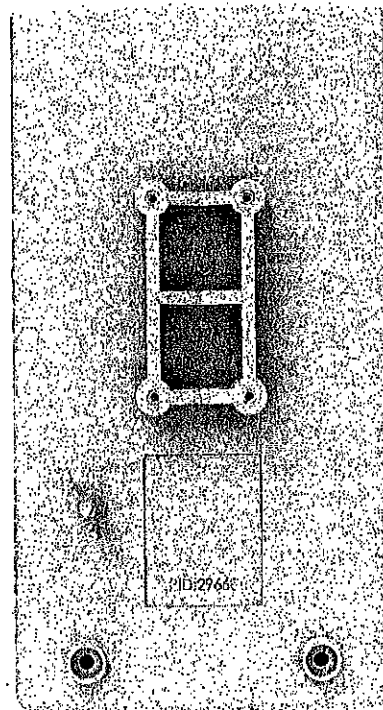
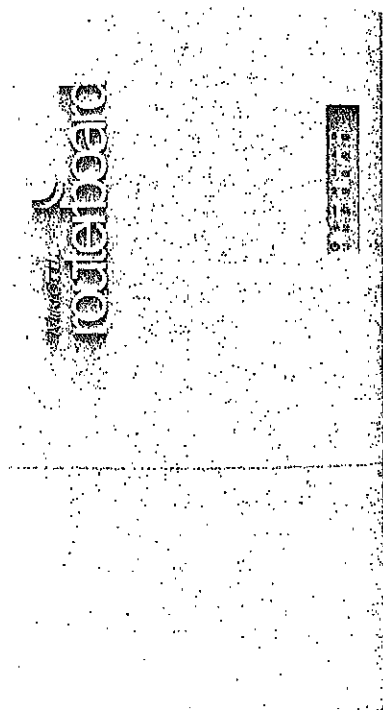
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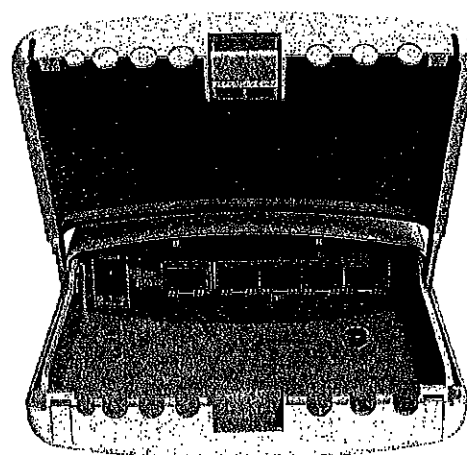
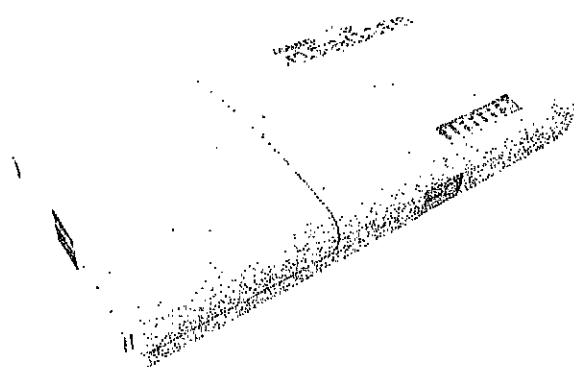
Hikvision Brazil
T +55 11 3318-0050
latam.support@hikvision.com

FiberBox

The FiberBox is an outdoor switch with five SFP ports, ideal for locations where distance is restricting the use of regular ethernet cables. The device is weatherproof and comes with a hose clamp and zip ties, ready to be installed on high masts and towers.



The package also includes the RJ45 SFP (S-RJ01) copper module already preinstalled in the first port, so you can use ethernet in one of the ports already out of the box. If not needed, remove it to have access to all five SFP ports for using with 1.25G fiber modules.



Specifications

Product code	FiberBox
CPU	QCA8511 400 MHz
Size of RAM	128 MB
Storage type	Flash
Storage size	16 MB
SFP	5x 1.25G Ethernet SFP cage (Mini-GBIC); DDM1 supported. One S-RJ01 RJ45 SFP module Included.
Dimensions	125 x 178 x 48 mm
License level	5
Operating temperature	-20 to 70° C
Operating System	RouterOS
Max Power consumption	11 W
LEDs	9x LEDs (1x user LED)



Included



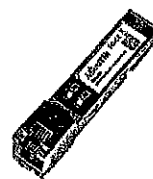
24V 0.8A power
adapter



Hose clamp



Dinrail mounting
bracket set (K-27)



S-RJ01 R45 SFP
module

FiberBox series

The FiberBox is a network switch with five SFP ports. It is already configured, with all ports switched together. We recommend you to set up a password to secure your device. This unit is compatible with 1.25G SFP modules.

Powering

The board accepts powering from the direct-input power Jack (5.5 mm outside and 2 mm inside, female, pin positive plug) accepts 9-30 V DC. The power consumption of this device under maximum load is up to 11 W.

Configuration

The FiberBox is set up as a switch, with 192.168.88.1 as the management IP of the bridge interface. RouterOS includes many configuration options in addition to what is described in this document. We suggest to start here to get yourself accustomed to the possibilities: <http://mt.lv/help>.

In case IP connection is not available, the Winbox tool (<http://mt.lv/winbox>) can be used to connect to the MAC address of the device.

For recovery purposes, it is possible to boot the device from network, see the next section.

Buttons and Jumpers

The reset button has three functions:

- Hold this button during boot time until LED light starts flashing, release the button to reset RouterOS configuration.
- Keep holding the button for 5 more seconds or until the user LED turns off, then release it to make the RouterBOARD look for Netinstall servers. The SFP1 port is used for the Netinstall process.

Regardless of the above option used, the system will load the backup RouterBOOT loader if the button is pressed before power is applied to the device. Useful for RouterBOOT debugging and recovery.

LED Indicators

- Power LED is lit when the router is powered from the DC Jack.
- The user LED can be configured from RouterOS.
- SFP LEDs indicate the SFP port activity.

Operating System Support

The device supports RouterOS software with the version number at or above what is indicated in the RouterOS menu `/system resource`. Other operating systems have not been tested.



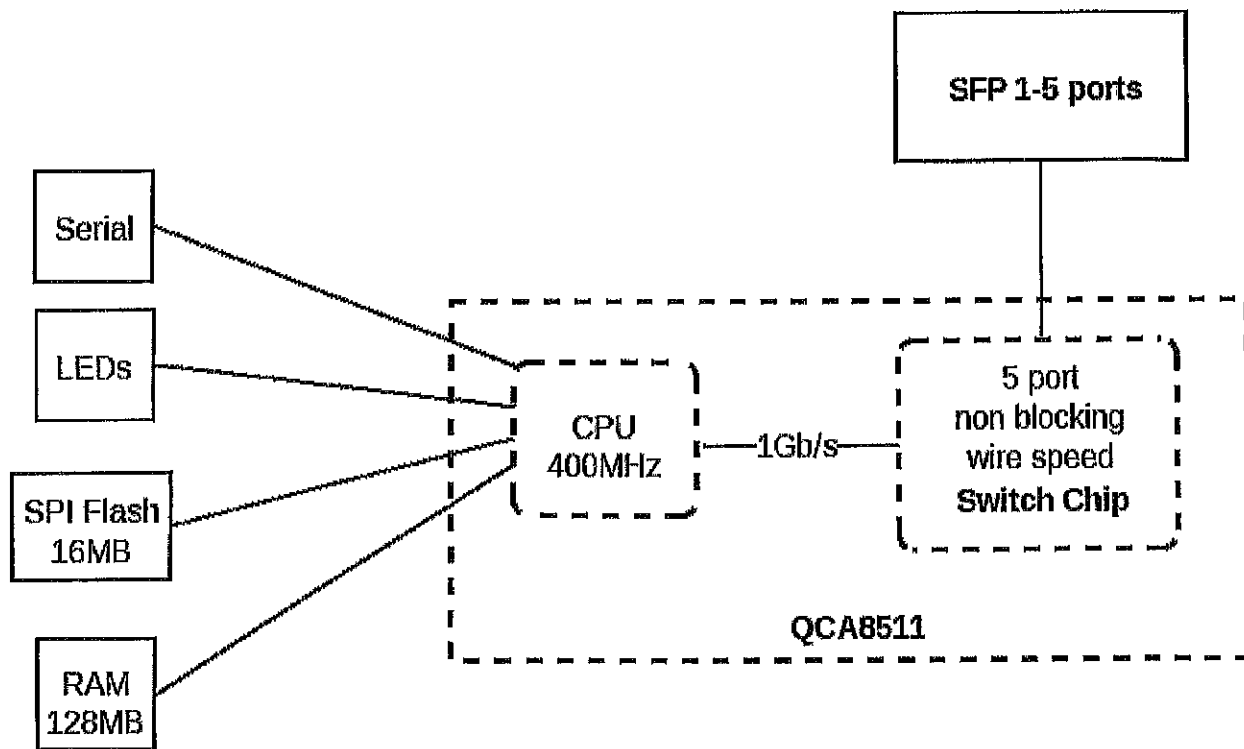
CE Declaration of Conformity

Full Declaration of Conformity (DoC) may be obtained by visiting our product page on <https://mikrotik.com>

[EN] English	Hereby, MIKROTIKS SIA declares that this RouterBOARD is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EC.
[BG] Bulgarian	С настоящето, MIKROTIKS SIA декларира, че RouterBOARD е в съответствие със съществени изисквания и другите приложими разпоредби на Директива 2014/53/ЕС.
[CZ] Czech	MIKROTIKS SIA tímto prohlašuje, že RouterBOARD splňuje základní požadavky a všechna příslušná ustanovení Směrnice 2014/53/ES.
[DK] Danish	Undertegnede MIKROTIKS SIA erklærer herved, at følgende udstyr RouterBOARD overholder de væsentlige krav og øvrige relevante krav i direktiv 2014/53/EF.
[DE] German	Hiermit erklärt MIKROTIKS SIA dass sich das Gerät RouterBOARD in Übereinstimmung mit den grundlegenden Anforderungen und den übrigen einschlägigen Bestimmungen der Richtlinie 2014/53/EG befindet.
[EE] Estonian	Käesolevaga kinnitab MIKROTIKS SIA seadme RouterBOARD vastavust direktiivi 2014/53/EU põhinõuetele ja nimetatud direktiivist tulenevatele teistele asjakohastele sätetele.
[GR] Greek	ΜΕ ΤΗΝ ΠΑΡΟΥΣΑ Ο ΚΑΤΑΣΚΕΥΑΣΤΗΣ MIKROTIKS SIA ΔΗΛΩΝΕΙ ΟΤΙ RouterBOARD ΣΥΜΜΟΡΦΩΝΕΤΑΙ ΠΡΟΣ ΤΙΣ ΟΥΣΙΩΔΕΙΣ ΑΠΑΙΤΗΣΕΙΣ ΚΑΙ ΤΙΣ ΛΟΙΠΕΣ ΣΧΕΤΙΚΕΣ ΔΙΑΤΑΞΕΙΣ ΤΗΣ ΟΔΗΓΙΑΣ 2014/53/ΕΚ
[ES] Spanish	Por la presente, MIKROTIKS SIA declara que este RouterBOARD cumple con los requisitos esenciales y otras exigencias relevantes de la Directiva 2014/53/EC.
[IT] Italian	Con la presente MIKROTIKS SIA dichiara che questo RouterBOARD è conforme al requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva 2014/53/CE.
[LV] Latvian	Ar šo MIKROTIKS SIA deklarē, ka RouterBOARD atbilst Direktīvas 2014/53/EK būtiskajām prasībām un citiem ar to saistītajiem noteikumiem.
[LT] Lithuanian	Šiuo MIKROTIKS SIA deklaruoją, kad šis RouterBOARD atitinka esminius reikalavimus ir kitas 2014/53/EB Direktyvos nuostatas
[HU] Hungarian	A MIKROTIKS SIA ezennel kijelenti, hogy a RouterBOARD típusú berendezés teljesíti az alapelvető követelményeket és más 2014/53/EK irányelvben meghatározott vonatkozó rendelkezéseket.
[NL] Dutch	Hierbij verklaart MIKROTIKS SIA dat het toestel RouterBOARD in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 2014/53/EG.
[PL] Polish	Niniejszym MIKROTIKS SIA deklaruje że RouterBOARD jest zgodny z zasadniczymi wymaganiami i innymi właściwymi postanowieniami Dyrektywy 2014/53/EC.
[PT] Portuguese	Eu, MIKROTIKS SIA declaro que o RouterBOARD cumpre os requisitos essenciais e outras provisões relevantes da Directiva 2014/53/EC.
[RO] Romanian	Prin prezenta, MIKROTIKS SIA declară că aparatul RouterBOARD este în conformitate cu cerințele esențiale și cu alte prevederi pertinente ale Directivei 2014/53/CE.
[SK] Slovak	MIKROTIKS SIA týmto vyhlasuje, že RouterBOARD spĺňa základné požiadavky a všetky príslušné ustanovenia Smernice 2014/53/ES.
[SI] Slovenian	MIKROTIKS SIA izjavlja, da je ta RouterBOARD v skladu z bistvenimi zahtevami in drugimi relevantnimi določili direktive 2014/53/ES.
[FI] Finnish	MIKROTIKS SIA vakuuttaa täten että RouterBOARD tyyppinen laite on direktiivin 2014/53/EY oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen.
[SE] Swedish	Härmed intygar MIKROTIKS SIA att denna RouterBOARD är i överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv 2014/53/EG.
[NO] Norwegian	MIKROTIKS SIA Erklærer herved at RouterBOARD er i samsvar med de grunnleggende krav og øvrige relevante krav i direktiv 2014/53/EF.

EN. Instruction manual: Connect the power adapter to turn on the device. Open 192.168.88.1 in your web browser, to configure it. More information on <http://mt.lv/help> **БГ. Инструкции:** Съвържете адаптера на захранване, за да включите устройството. Отворете 192.168.88.1 в уеб браузър, за да настроите продукта. Повече информация в <http://mt.lv/help> **CZ. Návod k použití:** Připojte napájecí adaptér k zapnutí přístroje. Otevřete 192.168.88.1 ve webovém prohlížeči pro konfiguraci produktu. Více informací najdete v <http://mt.lv/help> **DK.** **Instruktionsbog:** Tilslut strømadapteren for at tænde for enheden. Åbn 192.168.88.1 i en webbrowser til at konfigurere produktet. Mere information i <http://mt.lv/help> **FR. Mode d'emploi:** Connectez l'adaptateur d'alimentation pour allumer l'appareil. Ouvrez 192.168.88.1 dans un navigateur Web pour configurer le produit. Plus d'informations dans <http://mt.lv/help> **DE. Bedienungsanleitung:** Verbinden Sie das Netzteil, um das Gerät einzuschalten. Öffnen Sie 192.168.88.1 in einem Web-Browser, um das Produkt zu konfigurieren. Weitere Informationen im <http://mt.lv/help> **EE. Kasutaj juhend:** Ühendage toiteadapter seadme sisselülitamiseks. Avatud 192.168.88.1 in veebilehtlehe seadistada toodet. Rohkem teavet <http://mt.lv/help> **ES. Manual de instrucciones:** Conecte el adaptador de alimentación para encender la unidad. Abra 192.168.88.1 en un navegador web para configurar el producto. Más información en <http://mt.lv/help> **IT. Manuale di istruzioni:** Collegare l'adattatore di alimentazione per accendere l'unità. Aprire 192.168.88.1 in un browser Web per configurare il prodotto. Maggiori informazioni in <http://mt.lv/help> **LV. Lietošanas instrukcija:** Pievienojiet Strāvas adapteri, lai ieslēgtu ierīci. Atvērt 192.168.88.1 ar interneta pārlūku, lai konfigurētu produktu. Plašāka informācija <http://mt.lv/help> **LT. Naudojimosi instrukcija:** Prijunkite maitinimo adapterį įjunkite įrenginį. Į interneto naršyklę 192.168.88.1 Atidarykite galiojantį konfigūracinį gaminį. Daugiau informacijos rasite <http://mt.lv/help> **HU. Használati utasítás:** Csatlakoztassa a hálózati adaptert a készülék bekapcsolásához. Megnyílása 192.168.88.1 egy webböngészőben beállítani a terméket. Több információ <http://mt.lv/help> **NL. Handleiding:** Sluit voedingsadapter aan op het apparaat in te schakelen. Open 192.168.88.1 in een webbrowser om het product te configureren. Meer informatie in <http://mt.lv/help> **PL. Instrukcja obsługi:** Podłącz adapter zasilania, aby włączyć urządzenie. Otwórz 192.168.88.1 w przeglądarce internetowej, aby skonfigurować urządzenie. Więcej informacji w <http://mt.lv/help> **PT. Manual de instruções:** Conecte o adaptador de alimentação para ligar o aparelho. Abra 192.168.88.1 em um navegador da web para configurar o produto. Mais informações em <http://mt.lv/help> **RO. Instrucțiuni de utilizare:** Conectați adaptorul de alimentare pentru a porni aparatul. Deschide 192.168.88.1 într-un browser web pentru a configura produsul. Mai multe informații în <http://mt.lv/help> **SK. Návod na použitie:** Připojte napájecí adaptér k zapnutí přístroje. Otvorte 192.168.88.1 vo webovom prehliadači pre konfiguráciu produktu. Viac informácií nájdete v <http://mt.lv/help> **SL. Navodila:** Priključite napajalnik za vklop naprave. Odprite 192.168.88.1 v spletnem brskalniku nastaviti izdelek. Več informacij v <http://mt.lv/help> **FI. Käyttöohje:** Kytke virtalähde päälle laitteen. Avaa 192.168.88.1 selaimen mallittimää tuotteen. Lisää tietoa <http://mt.lv/help> **SE. Instruktionsmanual:** Anslut nätadaptern för att slä på enheten. Öppna 192.168.88.1 i en webbläsare för att konfigurera produkten. Mer information på <http://mt.lv/help> **NO. Bruksanvisningen:** Koble strømadapteren for å slå på enheten. Åpne 192.168.88.1 i en nettleser for å konfigurere produktet. Mer informasjon på <http://mt.lv/help> **GR. εγχειρίδιο οδηγιών:** Συνδέστε τον προσαρμογέα τροφοδοσίας για να ενεργοποιήσετε τη μονάδα. Ανοίξτε 192.168.88.1 σε ένα πρόγραμμα περιήγησης στο Web για να διαμορφώσετε το προϊόν. Περισσότερες πληροφορίες στο <http://mt.lv/help>

CRS105-5S-FB

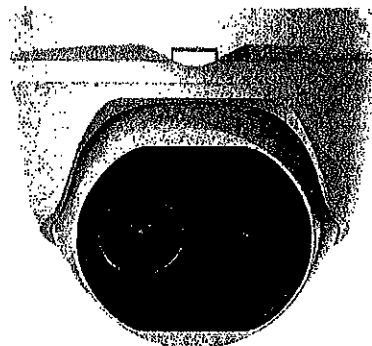


HIKVISION®

DS-2TD1217-2/V1

Thermal & Optical Network Turret Camera

DeepinView^{series}



HIKVISION DS-2TD1217-2/V1 Thermal & Optical Network Turret Camera equipped with built-in GPU which support intelligent behavior analysis algorithm, can realize high precision VCA detection and real-time alarm. It is applied to fire-prevention purposes in indoor space such as: engine room, ATM, conference room, warehouse, museum, train station, gem, power station, and so on. The pre-alarm system helps you discover unexpected events immediately and protects you from property loss.

Smart Function (Thermal Imaging)

- Leading image processing technology: Adaptive AGC, DDE, 3D DNR, NETD less than 40 mK (25 °C), F# = 1.1
- Powerful behavior analysis function, based on deep learning algorithm: Line crossing, Intrusion, Region Entrance & Exit
- Reliable temperature exception alarm function
- Advanced fire detection algorithm
- Bi-spectrum image fusion, picture in picture preview

Thermal Imaging Module Function

- 160 × 120 (the resolution of output image is 320 × 240) resolution sensor, high sensitivity sensor, support contrast adjustment
- Shutter adjustment in various modes
- 3D DNR, 15 palettes of color adjustable, image detail enhancement



www.hikvision.com

Specification

Thermal Module	
Image Sensor	Vanadium Oxide Uncooled Focal Plane Arrays
Max. Resolution	160 × 120 (the resolution of output image is 320 × 240)
Pixel Interval	17 μm
Response Waveband	8 μm to 14 μm
NETD	less than 40 mK (25 °C), F# = 1.1
Lens (Focal Length)	1.8 mm
MRAD	9.44 mrad
Field of View	90° × 66.4° (H × V)
Min. Focusing Distance	0.1 m
Aperture	F1.1
Optical Module	
Max. Image Resolution	1920 × 1080
Image Sensor	1/2.7" Progressive Scan CMOS
Min. Illumination	Color: 0.002 Lux @(F1.2, AGC ON), B/W: 0.0002 Lux @(F1.2, AGC ON)
Shutter Speed	1s to 1/100,000s
Lens (Focal Length)	2.1 mm
Field of View	101.2° × 77° (H × V)
WDR	120 WDR
Day & Night	IR cut filter with auto switch
Image Function	
Bi-spectrum Image Fusion	Fusion view of thermal view and overlaid details of the optical channel
Picture in Picture	Combines details of thermal and optical image PIP, overlay thermal image on optical image
Smart Function	
VCA (Video Content Analysis)	4 VCA rule types (Line Crossing, Intrusion, Region Entrance, and Region Exiting), up to 8 VCA rules.
Temperature Measurement	3 temperature measurement rule types, 21 rules (10 points, 10 areas, and 1 line).
Temperature Range	-20 °C to +150 °C (-4 °F to +302 °F)
Temperature Accuracy	± 8 °C (± 14.4 °F)
Fire detection	Dynamic fire point detection, up to 10 fire points detectable.
Infrared	
IR Distance	Up to 15 m
IR Intensity and Angle	Automatically adjusted
Network	
Main Stream	Visible Light: 50Hz: 25fps (1920 × 1080), 25fps (1280 × 960), 25fps (1280 × 720) Visible Light: 60Hz: 30fps (1920 × 1080), 30fps (1280 × 960), 30fps (1280 × 720) Thermal: 25fps (160 × 120 (the resolution of output image is 320 × 240))

Sub Stream	Visible Light: 50Hz: 25fps (704×576), 25fps (640×480) Visible Light: 60Hz: 30fps (704×480), 30fps (640×480) Thermal: 25fps (160×120 (the resolution of output image is 320×240))
Video Compression	H.265/H.264, H.265+/H.264+ encoding with Baseline/Main/High Profile
Audio Compression	G.711u/G.711a/G.722.1/MP2L2/G.726/PCM
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, UDP, Bonjour
Simultaneous Live View	Up to 20
User/Host level	Up to 32 users, 3 levels: Administrator, Operator, User
Security Measures	User authentication (ID and PW), MAC address binding, HTTPS encryption, IEEE 802.1x access control, IP address filtering
Integration	
Alarm Input	1-ch inputs (0-5VDC)
Alarm Output	1-ch relay outputs, alarm response actions configurable
Alarm Action	SD recording/Relay output/Smart capture/FTP upload/Email linkage
Audio Input	1 3.5mm Mic in/Line in interface. Line input: 2-2.4V[p-p], output impedance: 1KΩ±10%
Audio Output	Linear Level; Impedance: 600Ω
Reset	1 Reset Button
Ethernet	1 RJ45 10M/100M Self-adaptive Ethernet Interface, 1 RS-485 Interface
SD Memory Card	Built-in Micro SD card slot, support Micro SD/SDHC/SDXC card (up to 256G), support manual/alarm recording
Analog Video Output	1.0V [p-p]/75Ω, PAL/NTSC/BNC
Application Programming	Open-ended API, support ISAPI, HIKVISION SDK and third-party management platform
Client	IVMS-4200
Web Browser	IE9+, chrome31-chrome44, Firefox 30-Firefox51, Safari 5.02+(mac)
General	
Menu language	English
Power	12 VDC±20%, two-core terminal block PoE (802.3af, class 3)
Power Consumption	12 VDC±20%: 0.7 A, max. 8W PoE (802.3af, class 3): 42.5 V to 57 V, 0.14 A to 0.22 A, max. 8.5W
Working Temperature/Humidity	-30 °C to 60 °C (-22 °F to 140 °F), 95% or less
Protection Level	IP67 Standard TVS 6000V Lightning protection, surge protection, voltage transient protection
Dimensions	134.2 mm × 123.9 mm × 107.7 mm (5.28" × 4.87" × 4.24")
Weight	800 g (1.76lb)

Detection Range Table

* The table is only for reference, the performance may vary from camera to camera.

Smart functions Range

Different targets trigger the VCA events within different range limits.

VCA Range (Vehicles: 1.4×4.0m)	VCA Range (Humans: 1.8×0.5m)	Temperature Measurement (Object:2×2 m)	Temperature measurement (Object:1×1 m)	Fire Detection (Object:2×2 m)	Fire Detection (Object:1×1 m)
42 m	14 m	44 m	22 m	108 m	54 m

Wide Range Coverage

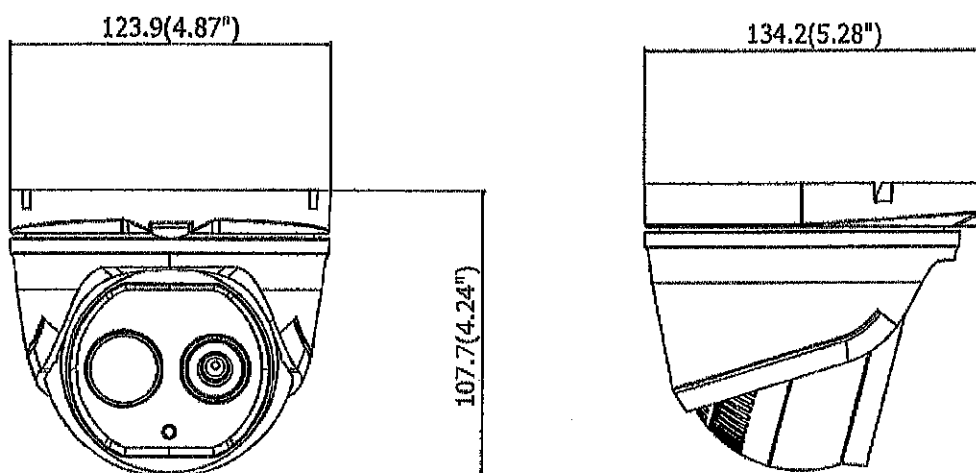
There is range limit for detecting, recognizing, and identifying human/vehicle targets.

Detection Range (Vehicles: 1.4×4.0m)	Detection Range (Humans: 1.8×0.5m)	Recognition Range (Vehicles: 1.4×4.0m)	Recognition Range (Humans: 1.8×0.5m)	Identification Range (Vehicles: 1.4×4.0m)	Identification Range (Humans: 1.8×0.5m)
162 m	53 m	41 m	13 m	20 m	7 m

Available Model

DS-2TD1217-2/V1

Dimension



Unit: mm(Inch)

Distributed by



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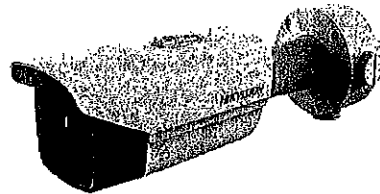
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Hikvision Colombia
sales.colombia@hikvision.com

HIKVISION®

DS-2TD2136-7/V1 Thermal Network Bullet Camera

DeepinView^{series}



Hikvision DS-2TD2136-7/V1 Thermal Network Bullet Camera equipped with built-in GPU which support intelligent behavior analysis algorithm, can realize high precision VCA detection and real-time alarm. It is applied to perimeter defense and fire-prevention purposes in critical infrastructures such as: airport, railway, prison, power station, 4S stores, and so on. The pre-alarm system helps you discover unexpected events immediately and protects you from property loss.

Smart Function (Thermal Imaging)

- Leading image processing technology: Adaptive AGC, DDE, 3D DNR, NETD less than 40mk (@25°C, F#1.0)
- Powerful behavior analysis function, based on deep learning algorithm: Line crossing, Intrusion, Region Entrance & Exit
- Reliable temperature exception alarm function
- Advanced fire detection algorithm

Thermal Imaging Module Function

- 384 × 288 resolution sensor, high sensitivity sensor, support contrast adjustment
- Shutter adjustment in various modes
- 3D DNR, 15 palettes of color adjustable, image detail enhancement



www.hikvision.com

Specification

Thermal Module	
Image Sensor	Vanadium Oxide Uncooled Focal Plane Arrays
Max. Resolution	384 × 288
Pixel Interval	17 μm
Response Waveband	8 μm to 14 μm
NETD	less than 40mk (@25°C,F#=1.0)
Lens (Focal Length)	7 mm
MRAD	2.43 mrad
Field of View	60° × 43.8° (H × V)
Min. Focusing Distance	0.8 m
Aperture	F 1.0
Smart Function	
VCA (Video Content Analysis)	4 VCA rule types (Line Crossing, Intrusion, Region Entrance, and Region Exiting), up to 8 VCA rules.
Temperature Measurement	3 temperature measurement rule types, 21 rules (10 points, 10 regions, and 1 line).
Temperature Range	-20 °C to 150 °C (-4 °F to 302 °F)
Temperature Accuracy	±8 °C (14.4 °F)
Fire detection	Dynamic fire point detection, up to 10 fire points detectable.
Network	
Main Stream	50fps (384×288)
Sub Stream	50fps (384×288)
Third Stream	50fps (384×288)
Video Compression	H.265/H.264/MJPEG, H.265+/H.264+ encoding with Baseline/Main/High Profile
Audio Compression	G.711u/G.711a/G.722.1/MP2L2/G.726/PCM
Protocols	IPv4/IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTCP, RTP, TCP, UDP, IGMP, ICMP, DHCP, PPPoE
Simultaneous Live View	Up to 20
User/Host level	Up to 32 users, 3 levels: Administrator, Operator, User
Security Measures	User authentication (ID and PW), MAC address binding, HTTPS encryption, IEEE 802.1x access control, IP address filtering
Integration	
Alarm Input	2-ch Inputs (0-5V DC)
Alarm Output	2-ch relay outputs, alarm response actions configurable
Alarm Action	Preset/Patrol Scan/Pattern Scan/SD Card Record/Relay Output/Smart capture/FTP upload/Email linkage
Audio Input	1 3.5mm Mic In/Line In interface. Line input: 2-2.4V[p-p], output impedance:1KΩ±10%

Integration	
Audio Output	Linear Level; Impedance: 600Ω
Ethernet	1 RJ45 10M/100M Self-adaptive Ethernet Interface
SD Memory Card	Built-in Micro SD card slot, support Micro SD/SDHC/SDXC card (up to 128G), support manual/alarm recording
Analog Video Output	1.0V [p-p]/75Ω, PAL/NTSC/BNC
Application Programming	Open-ended API, support ISAPI, HIKVISION SDK and third-party management platform
Client	IVMS-4200
Web Browser	IE9+, chrome31-chrome44, Firefox 30-Firefox51, Safari 5.02+(mac)
General	
Menu language	English
Power	24 VAC± 25%, 12 VDC± 20%, two-core terminal block PoE (802.3at, class 4)
Power Consumption	24 VAC± 25%: 0.84 A, 12 VDC ± 20%: 1.7 A, max. 8W (20W with De-icing Heater On), PoE (802.3at, class 4): 42.5 V to 57 V, 0.4 A to 0.5 A
Working Temperature/Humidity	-40 °C to 65 °C (-40 °F to 149 °F), 90% or less
Protection Level	IP66 Standard TVS 6000V Lightning protection, surge protection, voltage transient protection
Dimensions	352.4mm × 113.5mm × 113mm (13.9" × 4.45" × 4.45")
Weight	Approx. 2kg (4.41lb)

Detection Range Table

* The table is only for reference, the performance may vary from camera to camera.

Smart functions Range

Different targets trigger the VCA events within different range limits.

VCA Range (Vehicles: 1.4×4.0m)	VCA Range (Humans: 1.8×0.5m)	Temperature Measurement (Object:2×2 m)	Temperature measurement (Object:1×1 m)	Fire Detection (Object:2×2 m)	Fire Detection (Object:1×1 m)
210 m	70 m	164 m	83 m	412 m	206 m

Wide Range Coverage

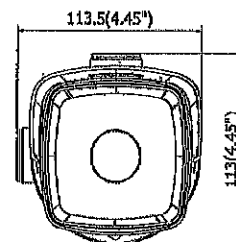
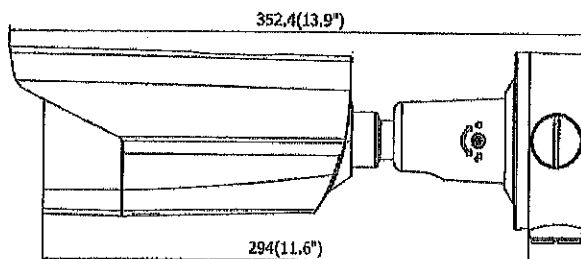
There is range limit for detecting, recognizing, and identifying human/vehicle targets.

Detection Range (Vehicles: 1.4×4.0m)	Detection Range (Humans: 1.8×0.5m)	Recognition Range (Vehicles: 1.4×4.0m)	Recognition Range (Humans: 1.8×0.5m)	Identification Range (Vehicles: 1.4×4.0m)	Identification Range (Humans: 1.8×0.5m)
631 m	206 m	158 m	51 m	79 m	26 m

Available Model

DS-2TD2136-7/V1

Dimension



Unit: mm(Inch)

Distributed by

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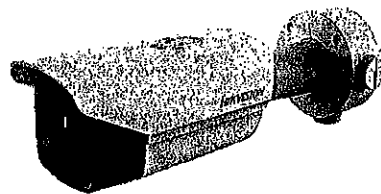
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HIKVISION

DS-2TD2137-10/V1 Thermal Network Bullet Camera

DeepinView^{series}



Hikvision DS-2TD2137-10/V1 Thermal Network Bullet Camera equipped with built-in GPU which support intelligent behavior analysis algorithm, can realize high precision VCA detection and real-time alarm. It is applied to perimeter defense and fire-prevention purposes in critical Infrastructures such as: airport, railway, prison, power station, 4S stores, and so on. The pre-alarm system helps you discover unexpected events immediately and protects you from property loss.

Smart Function (Thermal Imaging)

- Leading image processing technology: Adaptive AGC, DDE, 3D DNR, NETD less than 35mk (@25°C, F#=1.0)
- Powerful behavior analysis function, based on deep learning algorithm: Line crossing, Intrusion, Region Entrance & Exit
- Reliable temperature exception alarm function
- Advanced fire detection algorithm

Thermal Imaging Module Function

- 384 × 288 resolution sensor, high sensitivity sensor, support contrast adjustment
- Shutter adjustment in various modes
- 3D DNR, 15 palettes of color adjustable, Image detail enhancement



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Specification

Thermal Module	
Image Sensor	Vanadium Oxide Uncooled Focal Plane Arrays
Max. Resolution	384 × 288
Pixel Interval	17 μm
Response Waveband	8 μm to 14 μm
NETD	less than 35mk (@25°C, F#1.0)
Lens (Focal Length)	10 mm
MRAD	1.70 mrad
Field of View	36° × 27° (H × V)
Min. Focusing Distance	1 m
Aperture	F 1.0
Smart Function	
VCA (Video Content Analysis)	4 VCA rule types (Line Crossing, Intrusion, Region Entrance, and Region Exiting), up to 8 VCA rules.
Temperature Measurement	3 temperature measurement rule types, 21 rules (10 points, 10 regions, and 1 line).
Temperature Range	-20 °C to 150 °C (-4 °F to 302 °F)
Temperature Accuracy	±8 °C (14.4 °F)
Fire detection	Dynamic fire point detection, up to 10 fire points detectable.
Network	
Main Stream	50fps (384×288)
Sub Stream	50fps (384×288)
Third Stream	50fps (384×288)
Video Compression	H.265/H.264/MJPEG, H.265+/H.264+ encoding with Baseline/Main/High Profile
Audio Compression	G.711u/G.711a/G.722.1/MP2L2/G.726/PCM
Protocols	IPv4/IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTCP, RTP, TCP, UDP, IGMP, ICMP, DHCP, PPPoE
Simultaneous Live View	Up to 20
User/Host level	Up to 32 users, 3 levels: Administrator, Operator, User
Security Measures	User authentication (ID and PW), MAC address binding, HTTPS encryption, IEEE 802.1x access control, IP address filtering
Integration	
Alarm Input	2-ch inputs (0-5V DC)
Alarm Output	2-ch relay outputs, alarm response actions configurable
Alarm Action	Preset/Patrol Scan/Pattern Scan/SD Card Record/Relay Output/Smart capture/FTP upload/Email linkage
Audio Input	1 3.5mm Mic in/Line In Interface. Line input: 2-2.4V[p-p], output impedance:1KΩ±10%

Integration	
Audio Output	Linear Level; Impedance: 600Ω
Ethernet	1 RJ45 10M/100M Self-adaptive Ethernet interface
SD Memory Card	Built-in Micro SD card slot, support Micro SD/SDHC/SDXC card (up to 128G), support manual/alarm recording
Analog Video Output	1.0V [p-p]/75Ω, PAL/NTSC/BNC
Application Programming	Open-ended API, support ISAPI, HIKVISION SDK and third-party management platform
Client	IVMS-4200
Web Browser	IE9+, chrome31-chrome44, Firefox 30-Firefox51, Safari 5.02+(mac)
General	
Menu language	English
Power	24 VAC± 25%, 12 VDC± 20%, two-core terminal block PoE (802.3at, class 4)
Power Consumption	24 VAC± 25%: 0.84 A, 12 VDC ± 20%: 1.7 A, max. 8W (20W with De-Icing Heater On), PoE (802.3at, class 4): 42.5 V to 57 V, 0.4 A to 0.5 A
Working Temperature/Humidity	-40 °C to 65 °C (-40 °F to 149 °F), 90% or less
Protection Level	IP66 Standard TVS 6000V Lightning protection, surge protection, voltage transient protection
Dimensions	352.4mm × 113.5mm × 113mm (13.9" × 4.45" × 4.45")
Weight	Approx. 2kg (4.41lb)

Detection Range Table

* The table is only for reference, the performance may vary from camera to camera.

Smart functions Range

Different targets trigger the VCA events within different range limits.

VCA Range (Vehicles: 1.4×4.0m)	VCA Range (Humans: 1.8×0.5m)	Temperature Measurement (Object:2×2.m)	Temperature measurement (Object:1×1.m)	Fire Detection (Object:2×2.m)	Fire Detection (Object:1×1.m)
300 m	100 m	234 m	118 m	588 m	294 m

Wide Range Coverage

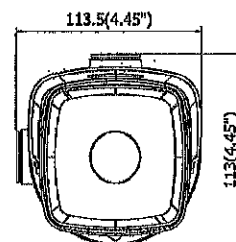
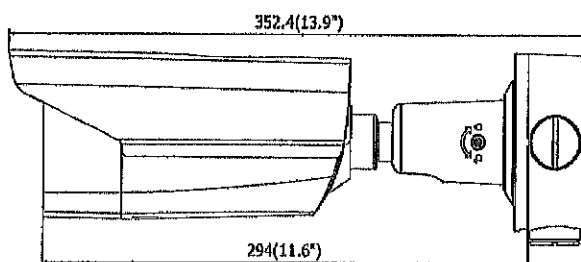
There is range limit for detecting, recognizing, and identifying human/vehicle targets.

Detection Range (Vehicles: 1.4×4.0m)	Detection Range (Humans: 1.8×0.5m)	Recognition Range (Vehicles: 1.4×4.0m)	Recognition Range (Humans: 1.8×0.5m)	Identification Range (Vehicles: 1.4×4.0m)	Identification Range (Humans: 1.8×0.5m)
902 m	294 m	225 m	74 m	113 m	37 m

Available Model

DS-2TD2137-10/V1

Dimension



Unit: mm(Inch)

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