

# RESUMEN EJECUTIVO

La presente propuesta consiste en suplir los materiales y equipos necesarios para cubrir la instalación de cinco (05) Torniquetes de Acceso y tres (03) Cámaras Conteo de Personas, con las especificaciones descritas en los documentos de referencia de la Junta central electoral, para ser instaladas en la edificación que alberga la Junta Electoral y las Oficialías del Estado Civil de la Primera y Segunda Circunscripción de La Romana.

Los materiales y servicios de tecnología ofertados incluyen:

1. Diseño detallado.
2. JCE de la Romana (1er Nivel).
3. JCE de la Romana (Al lado de la Junta).
4. JCE de la Romana (1era Circ. y Centro de Cedulación).
5. Sistema de interconexión de edificios.
6. Sistema Cableado y Canalización.

La propuesta se basa en la información suministrada por JCE y levantamiento en las instalaciones de JCE.

En esta propuesta se detallan las cantidades estimadas en cada rubro, y su precio unitario, de manera que se puedan realizar los ajustes correspondientes luego de la etapa de "Diseño".

## ALCANCE

La propuesta incluye los siguientes componentes y servicios:

### 1. Diseño detallado

a. Productos y licencias

Este ítem no incluye productos ni licencias.

b. Suscripción a soporte con el fabricante y derecho a actualizaciones

Este ítem no incluye productos ni licencias.

c. Servicios

Se incluyen los siguientes servicios:

#### Proyecto de Ingeniería Detallado

Este ítem se corresponde con la realización de un "Proyecto de Ingeniería Detallado" (PID), que contendrá los diversos aspectos técnicos del proyecto. Los entregables de este ítem son los siguientes:



- Revisión completa del diseño de todos los elementos que conforman esta propuesta.
- Adecuaciones necesarias, según requerimientos de la JCE.
- Indicación en planos de la ubicación de cada elemento, según corresponda.
- Ajuste de la planilla de materiales y precios, según el resultado del diseño.

Este documento será la base del trabajo técnico, y sobre el que serán realizadas las pruebas de aceptación.

## 2. JCE de la Romana (1er Nivel).

### a. Productos

Para brindar el servicio de entrada y salida de empleado y/o visita a las diferentes áreas a implementar este control se instalará los siguientes equipos destinados para estos fines.

#### 1. Sistema de (1) Torniquete Compuesto por los siguientes Elementos:

Equipamiento JCE 1er Nivel
20 pairs of infrared sensors, servo motor, MCBF more than 12 million times, 30 to 60 persons per minute (The actual throughput is affected by the person passing rate and passing method) 650 mm to 1100 mm lane width, Dimension: 1496 mm × 130 mm × 1005 mm SUS304 stainless steel,thickness: 1.5mm, Barrier material: Acrylic glass, Built-in display screen 6.95 inch, Wifi(AP mode), 2 MP face recognition camera 1080P, Built-in access controller, When the power is off, the door will automatically open, Support ISAPI, Use for indoor
Swing Barrier Base Module for DS-K3B631TX series.
Swing Barrier Base Module for DS-K3B631TX series.
Reads Mifare 1 card, Fingerprint(capacity: 5000), Supports RS485(HIK private),IP65; Wall mounting with screws. The Gang Box is not supported. Fingerprint devices are recommended for using in indoor environment



2. Cercamiento de acero inoxidable y Acrílico Transparente, Compuesto por los siguientes Elementos:

<b>Equipamiento JCE 1er Nivel</b>
<b>BASE</b>
<b>Material: SUS304, Acrylic glass</b>



3. Cámara de Conteo de persona, Compuesto por los siguientes Elementos:

<b>Equipamiento JCE 1er Nivel</b>
Dual lens, 1/2.7" Progressive Scan CMOS, People counting by deep learning; Support separate counting of people entering, exiting, Digital WDR, Max. 1920*1080 @25fps, IR range Up to 6 m, H.265, H.264, H.265+, H.264+, Mounting height 2.1m to 6m, Flash memory storing people counting data.



b. Suscripción a soporte con el fabricante y derecho a actualizaciones

El sistema de Control de entrada no cuenta con suscripción y/o Licenciamiento de parte del Fabricante.

c. Servicios

Se incluyen los siguientes servicios:

Instalación física

Se incluye la instalación física en sitio de los productos incluidos en este rubro.

Configuración

Se incluye la configuración necesaria en cada uno de los equipos, para brindar la conectividad requerida, tanto para la red de huéspedes como para la red interna (BOH).



### 3. JCE de la Romana (Al lado de la Junta).

#### a. Productos

Para brindar el servicio de entrada y salida de empleado y/o visita a las diferentes áreas a implementar este control se instalará los siguientes equipos destinados para estos fines.

1. Sistema de (2) dos Torniquetes Compuesto por los siguientes Elementos:

Equipamiento JCE de la Romana (Al lado de la Junta)
20 pairs of infrared sensors, servo motor, MCBF more than 12 million times, 30 to 60 persons per minute (The actual throughput is affected by the person passing rate and passing method) 650 mm to 1100 mm lane width, Dimension: 1496 mm × 130 mm × 1005 mm SUS304 stainless steel,thickness: 1.5mm, Barrier material: Acrylic glass, Built-in display screen 6.95 inch, Wifi(AP mode), 2 MP face recognition camera 1080P, Built-in access controller, When the power is off, the door will automatically open, Support ISAPI, Use for indoor
(2) Swing Barrier Base Module for DS-K3B631TX series.
(1) Swing Barrier Base Module for DS-K3B631TX series.
Reads Mifare 1 card, Fingerprint(capacity: 5000), Supports RS485(HIK private),IP65; Wall mounting with screws. The Gang Box is not supported. Fingerprint devices are recommended for using in indoor environment



2. Cámara de conteo de persona, Compuesto por los siguientes Elementos:

Equipamiento JCE de la Romana (Al lado de la Junta)
Dual lens, 1/2.7" Progressive Scan CMOS, People counting by deep learning; Support separate counting of people entering, exiting, Digital WDR,Max. 1920*1080 @25fps, IR range Up to 6 m,H.265, H.264, H.265+, H.264+,Mounting height 2.1m to 6m,Flash memory storing people counting data.



b. Suscripción a soporte con el fabricante y derecho a actualizaciones

El sistema de interconexión de los edificios no cuenta con suscripción y/o Licenciamiento de parte del Fabricante.

c. Servicios

Se incluyen los siguientes servicios:

Instalación física

Se incluye la instalación física en sitio de los productos incluidos en este rubro (cámaras cuenta personas de interior).

Configuración

Se incluye la configuración necesaria para el sistema de CCTV.

## 4. JCE de la Romana (1era Circ. y Centro de Cedulación).

a. Productos

Para brindar el servicio de entrada y salida de empleado y/o visita a las diferentes áreas a implementar este control se instalará los siguientes equipos destinados para estos fines.

1. Sistema de (2) dos Torniquetes Compuesto por los siguientes Elementos:

Equipamiento JCE de la Romana (1era Circ. y Centro de Cedulación).
20 pairs of infrared sensors, servo motor, MCBF more than 12 million times, 30 to 60 persons per minute (The actual throughput is affected by the person passing rate and passing method) 650 mm to 1100 mm lane width, Dimension: 1496 mm × 130 mm × 1005 mm SUS304 stainless steel, thickness: 1.5mm, Barrier material: Acrylic glass, Built-in display screen 6.95 inch, Wifi(AP mode), 2 MP face recognition camera 1080P, Built-in access controller, When the power is off, the door will automatically open, Support ISAPI, Use for indoor
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2. Cámara de conteo de persona, compuesto por los siguientes elementos:

**Equipamiento JCE de la Romana (1era Circ. y Centro de Cedulación).**

Dual lens, 1/2.7" Progressive Scan CMOS, People counting by deep learning; Support separate counting of people entering, exiting, Digital WDR, Max. 1920\*1080 @25fps, IR range Up to 6 m, H.265, H.264, H.265+, H.264+, Mounting height 2.1m to 6m, Flash memory storing people counting data.



**b. Suscripción a soporte con el fabricante y derecho a actualizaciones**

El sistema de interconexión de los edificios no cuenta con suscripción y/o Licenciamiento de parte del Fabricante.

**c. Servicios**

Se incluyen los siguientes servicios:

**Instalación física**

Se incluye la instalación física en sitio de los productos incluidos en este rubro (cámaras cuenta personas de interior).

**Configuración**

Se incluye la configuración necesaria para el sistema de CCTV.



## 5. Sistema de interconexión de edificios

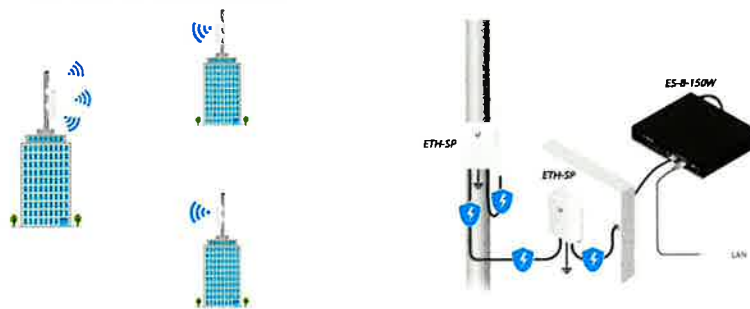
### a. Productos

Se ofrece un sistema equipos Inalámbricos que permite la interconexión a nivel de data de los edificios del recinto con el edificio principal. El cual permite proveer de Red a los dispositivos tales como cámaras y los equipos de control de acceso a instalar en este proyecto.

Este ítem incluye los siguientes productos:

Equipamiento Wireless y Switch de Interconexión
Ubiquiti NSM5 Paquete de 3 NanoStation M5 5GHz Aire Libre airMAX CPE 150+Mbps 15+km
Tenda - SWITCH 24 PUERTOS TEG1124P-24-250W, NO ADMINISTRABLE, VLAN, ETHERNET 10/100/1000, POE, DESKTOP/WALL MOUNTING, PORTECTOR CONTRA RAYOS

Point-to-MultiPoint Connection



### b. Suscripción a soporte con el fabricante y derecho a actualizaciones

El sistema de interconexión de los edificios no cuenta con suscripción y/o Licenciamiento de parte del Fabricante.

### c. Servicios

Se incluyen los siguientes servicios:

#### Instalación física

Se incluye la instalación física en sitio de los productos incluidos en este rubro (cámaras cuenta personas de interior).

#### Configuración

Se incluye la configuración necesaria para el sistema de CCTV.

## 6. Sistema Cableado y Canalización

### 6.1. Productos

Se ofrece el servicio de integración de los componentes que componen el cableado estructurado necesario para la instalación física de todos los dispositivos enumerados en esta propuesta.

Este ítem incluye los siguientes productos:

Instalacion a todo costo
cajas PANDUIT PANNET CABLE UTP CAT-6 CM Gabinete de 6U 600x450x368 Gabinete 6U/ 600 Alto, 450 Profundidad No Abatible PANDUIT Tira tipo Velcro, 4.6 m x 19.1 mm, 222 N/mm <sup>2</sup> , Fuerza de Tracción 50 lb, Negro
<b>Materiales de instalación :</b> Tuberías EMT, Registro, tornillos, tarugos Conduflex ETC
<b>Servicios profesionales:</b> <ul style="list-style-type: none"><li>• Canalización / Ranura de pavimento</li><li>• Obra civil Instalación de torniquete<ul style="list-style-type: none"><li>• Instalación de Cerco</li></ul></li><li>• Instalación de Cámara de conteo de personas<ul style="list-style-type: none"><li>• Instalación de antenas</li><li>• Instalación de facilidades</li><li>• Instalación de Electricidad</li><li>• Instalación de Redes</li></ul></li><li>• Imprevistos transporte y hospedaje</li></ul>

### 6.2. Suscripción a soporte con el fabricante y derecho a actualizaciones

El sistema de interconexión de los edificios no cuenta con suscripción y/o Licenciamiento de parte del Fabricante.

### 6.3. Servicios

Se incluyen los siguientes servicios:

#### Instalación física

Se incluye la instalación física e integración en sitio de los productos incluidos en este rubro

#### Configuración

Se incluye la configuración necesaria.





## SUPUESTOS Y CONSIDERACIONES

### Supuestos de la Infraestructura

- Se asume que el cliente suministrará las áreas en condiciones apropiadas para las tareas a realizar.

### Supuestos de los servidores

- Se asume que el cliente suministrará los sistemas operativos e hipervisores de virtualización requeridos, los que serán indicadas por ISBEL en el “Proyecto de Ingeniería Detallado”.
- Los servidores que se incluye son para los elementos que forman parte de esta propuesta.

### Supuestos del cableado

- Se parte de la base que las canalizaciones serán entregadas por el cliente con alambre de guía y libres de obstrucciones.

### Supuestos del aterramiento

- Los equipos ofertados requieren de una correcta puesta a tierra, en un esquema SPG (Single Point Ground). El cliente deberá suministrar un punto de aterramiento dentro del tablero de la sala de equipos. La puesta a tierra se realizará sobre el sistema de puesta a tierra existente, no incluyendo la presente propuesta la implementación de nuevos sistemas de aterramiento.

### Supuestos del diseño de redes inalámbricas (“Wifi”)

- Dentro de los edificios de habitaciones se tomaron en cuenta las ubicaciones de los Access Points indicadas en visita realizada a las instalaciones de la JCE la Romana.
- En las áreas de servicio, se realizaron estimaciones a partir de la información parcial disponible.

### Condiciones de configuración

- El cliente final deberá brindar acceso al personal de ISBEL al lugar de prestación de servicios. Se asume que las tareas de instalación, configuración y montaje podrán ser realizadas en sitio o remotamente, en horario de oficina, de lunes a viernes, de 9AM a



5pm de la tarde. Igualmente, de ser necesario, se debe asegurar el acceso al sitio en otros horarios diferentes a los de actividad normal (por ej. Nocturnos y fines de semana).

- El cliente final deberá brindar acceso remoto al personal de ISBEL, a los efectos de realizar las configuraciones necesarias en cada uno de los componentes
- ISBEL no se hace responsable por los retrasos ocasionados por causas ajenas a ISBEL. Esto incluye demoras atribuibles a terceras partes y al propio cliente final.
- Se asume que la ejecución de los trabajos podrá ser realizada en forma continua, sin interrupciones debidas a razones no atribuibles a ISBEL.
- El cliente deberá disponer depósitos seguros para almacenar la mercadería desde su recepción hasta el momento de su utilización.

### Exclusiones

- Quedan excluidos cualquier suministro o servicio no detallado expresamente en la presente propuesta.
- No forma parte de esta propuesta la contratación del servicio de prevencionista, si las condiciones de trabajo así lo requieran dicho servicio se cotizará en forma adicional.
- No se incluye en este propuesto los costos de alojamiento, traslados, viáticos y alimentación del personal de instalación y montaje. El cliente final será responsable de estos costos.
- La oferta no contempla seguros de responsabilidad civil, penal o de riesgos de construcción. Tampoco se contemplan seguros sobre robo de mercadería.
- La propuesta no incluye elementos de elevación mecánico (andamios, elevadores), los que deberán ser suministrados por el cliente en caso de ser necesarios
- No se incluye la instalación de canalizaciones, bandejas, etc., las que se suponen serán instaladas por el cliente previo al comienzo de las tareas cotizadas.
- No se incluyen instalaciones eléctricas, las que se suponen serán instaladas por el cliente previo al comienzo de las tareas cotizadas.
- No se incluyen elevadores ni elementos para transportar la mercadería



## 7. Condiciones Pago, Tiempo de Entrega, Garantía

### Condiciones de Pago

20% contra firma de contrato o colocación de orden de compra, 50% contra entrega equipos y 30% restante contra implantación solución completa.

### Tiempo de Entrega

Se entregará en la oficina donde se instalarán los mismos (**Junta Central de la Romana**), con un tiempo estimado entre 12 y 16 semanas después de recibida la orden de compra o firma de contrato y concretadas las condiciones de pago.

### Garantía

La garantía es de dos (2) años para los torniquetes y los demás hardwares que componen la solución.

La garantía del cableados de dos (2) años y un (1) ano para los servicios de instalación.





Hangzhou Hikvision Digital Technology Co., Ltd

Provincia Zhejiang, China

07 junio 2023

### AUTORIZACIÓN DEL FABRICANTE

Señores

Junta Central Electoral (JCE)

Referencia: JCE-CCC-CP-2023-0025

Adquisición de torniquetes de acceso y cámaras de conteo de personas, los cuales serán instalados en la ciudad de La Romana.

Nosotros Hikvision Technology en nuestra calidad de fabricantes oficiales de la marca HIKVISION, autorizamos por la presente a UNISOFT S.R.L, RNC 130-80546-6, debidamente certificado como integrador de nuestras soluciones, a presentar una oferta en relación al proyecto indicado, que tiene como objetivo proveer bienes de nuestra fabricación, así como la instalación y configuración de los mismos Y de resultar adjudicatarios, a negociar y firmar el correspondiente contrato.

Por la presente extendemos nuestra garantía en los equipos propuestos de acuerdo a lo solicitado en pliego, según la política de la marca Hikvision en cuanto a los bienes seleccionados de nuestra fabricación.

**HIKVISION**  
Hikvision Panama Commercial, S.A.  
RUC 155668970-2-2018.DV.79

Vicente Chen / Chen Chiyuan

[chenchiyuan@hikvision.com](mailto:chenchiyuan@hikvision.com)

**Country Manager de Hikvision Rep. Dominicana**

Nota: Esta certificación es válida desde junio 07 2023 hasta agosto 31 2023.

Para validar la veracidad de este documento, favor consultar a [Ivan.Diaz@hikvision.com](mailto:Ivan.Diaz@hikvision.com)



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# Información Corporativa ISBEL – UNISOFT

## Breve Reseña Histórica

Somos una empresa uruguaya, de capitales privados, poseemos más de 30 años de experiencia en el mercado de las Telecomunicaciones y Sistemas de Información, tanto a nivel nacional como internacional.

Nuestra casa matriz se encuentra en Uruguay, pero desde hace más de una década hemos ampliado el rango de cobertura de nuestras soluciones dentro de un proceso de internacionalización a nivel de Latinoamérica y Caribe, contando hoy en día con oficinas y personal propio en República Dominicana. Tenemos presencia en México y Chile, así como también proyectos implementados en más de 20 países alrededor de toda Latinoamérica.

Nuestro staff cuenta con más de 130 colaboradores de los cuales el 90% posee formación profesional y/o técnica desde ISBEL, ofrecemos una amplia gama de soluciones globales en tecnología para Empresas, que van desde soluciones de telefonía, comunicaciones unificadas, networking, cableado estructurado, soluciones integrales de Call y Contact Center, hasta soluciones de desarrollo de software y Business Intelligence, todo esto con los respectivos servicios de diseño, implementación, soporte y consultoría asociados, que se necesiten en cada caso, para garantizar la correcta utilización de la tecnología aplicada al negocio de nuestros clientes.

### CAPITALES

100% URUGUAYOS

### EXPERIENCIA

UY Y LATAM

### PROYECTOS

EN MÁS DE 23 PAISES

### OFICINAS

UY Y RD

### STAFF

100 EMPLEADOS

### FOCO

TICS  
ENTERPRISE  
TELCOS  
CONTACT CENTER BPO  
PROPIO

70%

DEDICADO A SERVICIOS



# Nuestras Soluciones

 Enterprise

 Telcos

 isbel labs

## Enterprise

Proyectos de Comunicaciones corporativas para tu empresa



Contact Center

Las interacciones telefónicas, por mail, mensajería instantánea y redes sociales. Las soluciones de Contact Center actuales permiten tener una visión integral y unificada de las mismas.



Business Intelligence

Isbel junto a MicroStrategy, te brinda información consistente para toda la compañía, consolidada en una única plataforma que se alimenta de las diferentes fuentes de datos de la empresa.



Soporte e Implementación

El éxito de la transformación tecnológica de una organización está fuertemente vinculado a la calidad de los productos y servicios.



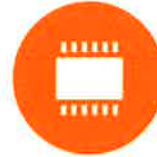
Comunicaciones Unificadas

Le permiten a tu equipo de trabajo estar comunicado por voz, video o texto en todo momento entre sí, con tus clientes, proveedores u otros actores clave para tu negocio



Networking

Nuestras soluciones de LAN cableada (switches) e Inalámbrica (WIFI), WAN (routers y radioanlaces) y Seguridad (firewalls) Incluyen las más recientes tecnologías para soportar y evolucionar su red de datos de manera eficiente.



Infraestructura y Data Center

La calidad de la Infraestructura de cableado y data center ha tomado relevancia como pilar que sustenta las inversiones en tecnología de la información y comunicaciones de las organizaciones.

## Telcos

Integración de Tecnologías World Class para operadoras



Tecnologías de video

Transcoding Live / VoD / CDN / Encoders / Catchup TV / Playout / Set Top Boxes / Protección de contenidos



Aplicaciones Telcos

Gestión de dispositivos residenciales / Gestión de dispositivos corporativos / Integraciones OSS/BSS / Gestión y optimización de redes.



Transporte y Núcleo de red

Sincronía tradicional / Redes de sincronismo (PTP/NTP) / Sincronía smart grid Power Utility / Soluciones de transporte y backhaul



Hogar

Dispositivos de telefonía tradicional e IP / Soluciones de conectividad en el hogar / Home Plugs / Bridge de Voz.



Tecnología de acceso

CPEs xDSL / VoIP / CPEs G-Pon / Wireless / CPEs 3G & LTE.



Infraestructura de Acceso

FTTH, FTTA, FTTb, FTTC / Cables de Fibra Óptica / Accesorios FTTH / Regletas Compactas / Cierres Mecánicos y Termocontráctiles.



### Proyectos Innovadores para tus Comunicaciones



#### Iniciativas Innovadoras

Nuestro departamento de I+D+i está continuamente trabajando en la creación de valor para los negocios de las organizaciones



#### Chatbots

Responde de forma automática y personalizada las consultas que realizan tus clientes a través de WhatsApp & Facebook Messenger.



#### Comunicaciones Unificadas en la nube

Incorpora Comunicaciones Unificadas en la nube (Cloud PBX) sin grandes Inversiones de infraestructura, paga por lo que usas y comunica a tu empresa de la mejor forma.



#### Proyecto STM+ para la IMM junto a ANII

Prototipo del sistema de cobro automático para el transporte metropolitano. El sistema pretende ser totalmente autónomo y no requiere intervención de nadie para determinar las características del viaje. Cuando uno Ingresar pasa la tarjeta o el celular por el lector y se le cobra por defecto el boleto común



## CERTIFICACIÓN DE CALIDAD

Certificados **ISO9001** en todos nuestros procesos desde el año 2003.



## NUESTROS VALORES

**Pasión por el Servicio**  
**Actitud Positiva**  
**Actitud de Equipo**  
**Actitud de Mejora Continua**  
**Actitud de Responsabilidad**  
**Humildad**  
**Honestidad**



### Nuestros Partner

## Enterprise





# Telcos



## Casos de Éxitos Uruguay



## Casos de Éxitos Republica Dominicana



## Nuestras Redes



**Twitter**

@isbelcompany



**LinkedIn**

Isbel



**Email**

info@Isbel.com.uy



**Tenda**



All for better networking.

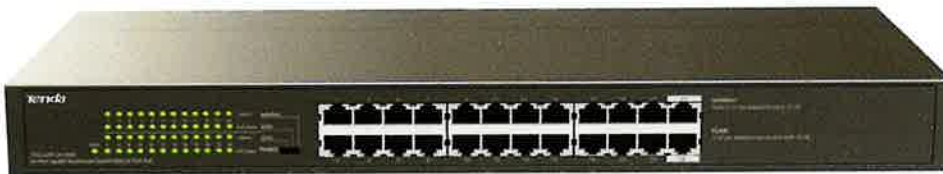
**TEG1124P-24-250W v1.0**

24-Port Gigabit Desktop  
Rackmount Switch With 24-Port PoE



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Link  
More



## TEG1124P-24-250W v1.0

24-Port Gigabit Desktop/Rackmount Switch  
With 24-Port PoE

### Products Description

TEG1124P-24-250W is a Tenda PoE switch that offers 24 10/100/1000 Mbps Base-TX RJ45 ports. Ports 1-24 comply with the IEEE 802.3af standard (maximum PoE power output: 15.4 W) and 802.3at standard (maximum PoE power output: 30 W). The switch offers a maximum PoE power output of 225 W and can supply power to and exchange data with APs, IP cameras, and IP phones through CAT5 cables. It also provides simple management modes such as CCTV, VLAN, and Isolation to help reduce cabling costs of IP terminals like APs and IP cameras.

### Key Feature

- \* 24 10/100/1000 Mbps Base-TX RJ45 ports
- \* Ports 1-24: IEEE 802.3af/at PoE ports
- \* maximum power output of the switch: 225W
- \* 19-inch desktop size, 1U height, rack mountable
- \* Hardware DIP switch for selection among the CCTV, Standard, VLAN, and Isolation modes.
- \* Hardware DIP switch to VLAN ports to prevent broadcast storm and defend against DHCP spoofing.



## 225W PoE power supply

Ports 1-24 comply with the IEEE802.3af and IEEE802.3at power supply standards. The entire switch offers a maximum PoE power output of 225 W, whereas each port offers a maximum PoE power output of 30 W. The ports can be used to supply power to and exchange data with APs and IP cameras.

## 6KV lightning protection

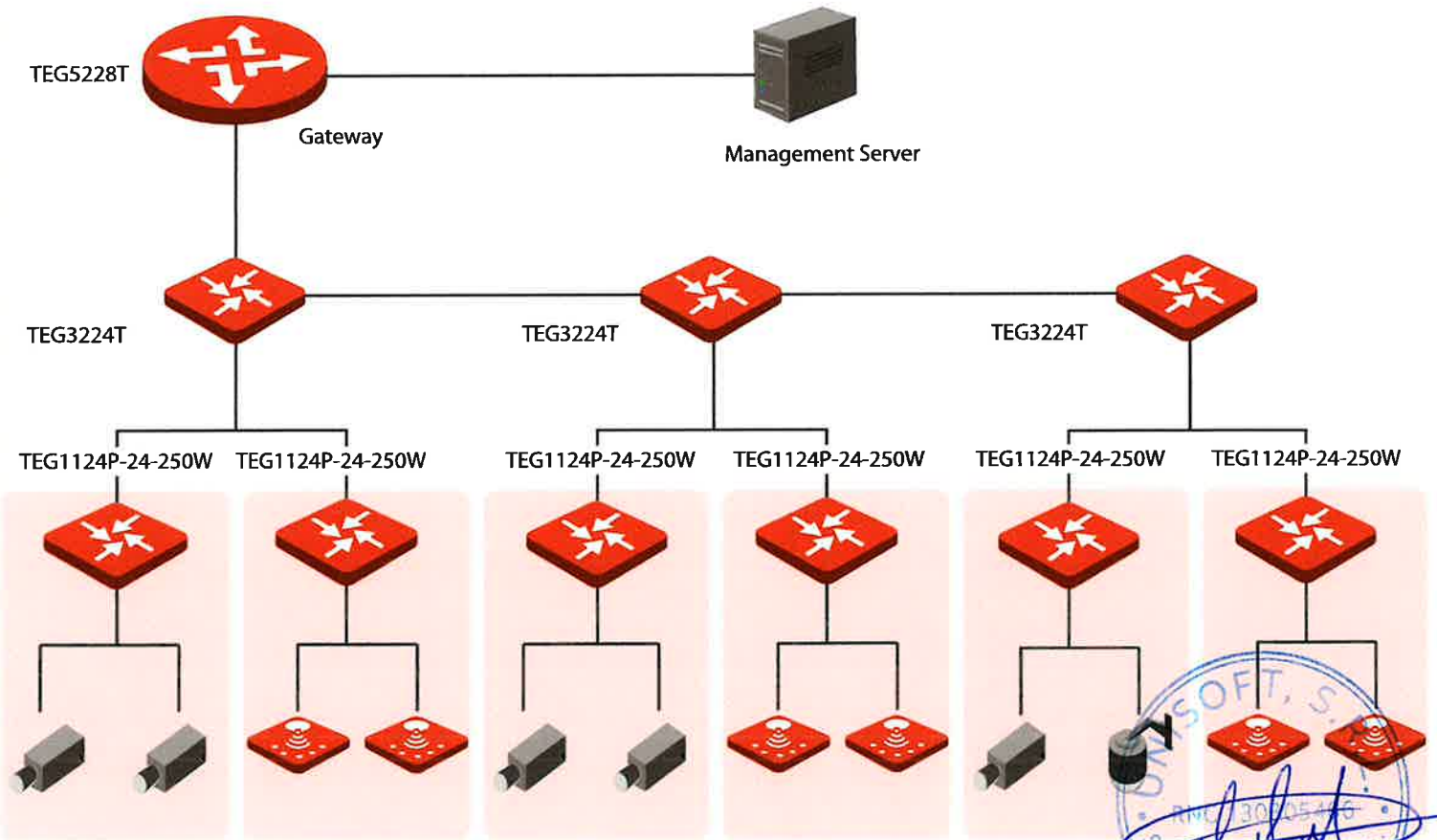
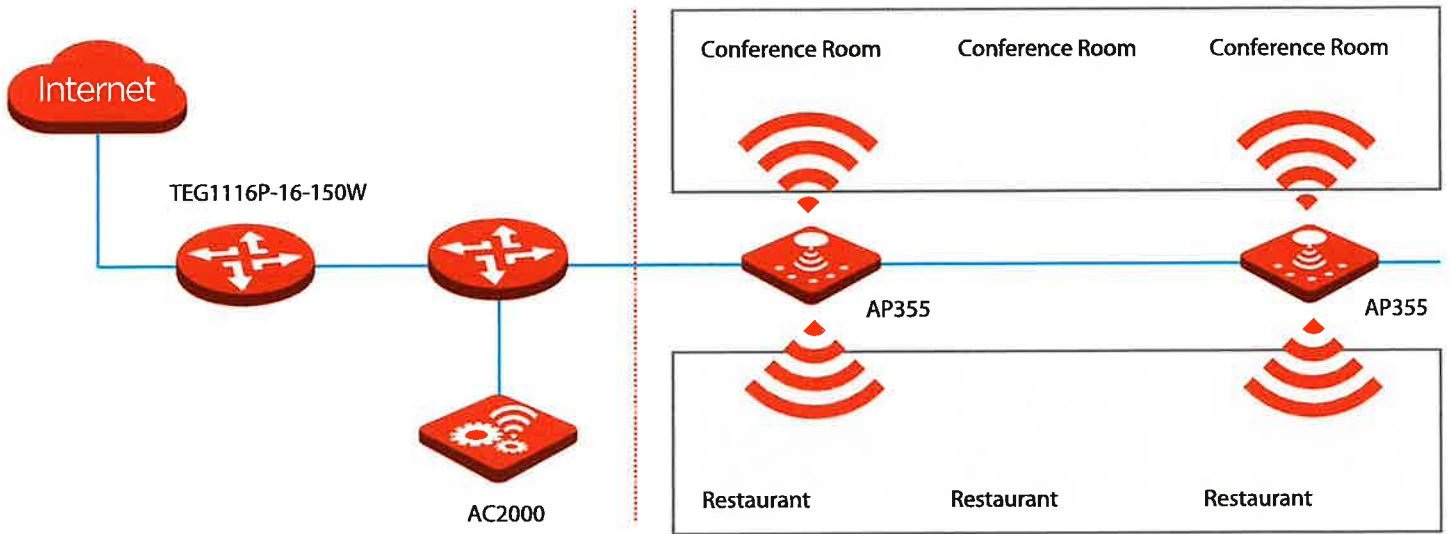
Integrated with a professional circuit that offers 6 kV lightning and surge protection for the entire device, ensuring proper operation of the device even in severe weather conditions such as thunderstorm and lightning.

## CCTV/VLAN and Extend Operation Modes Offered

Hardware DIP switch for selection among the CCTV, Standard, VLAN, and Isolation modes. Hardware DIP switch to isolate ports to prevent broadcast storm and defend against DHCP spoofing.



# Application



# Technical Specifications

## Hardware Features

Product Model	TEG1124P-24-250Wv1.0
Standard&Protocol	IEEE 802.3/IEEE 802.3u/IEEE 802.3ab/IEEE 802.3x/ IEEE 802.3af/IEEE 802.3at
Indicator	24*Link/Act per device 24*PoE per device 1*Power per device
Interface	24 10/100/1000Base-T ports(Data/Power)
Port Lightning Protection	6KV
Store and forward	Yes
Exchange Capacity	48 Gbps
Packet forwarding rate	35.6Mpps
RAM Data Buffer	4Mb
MAC Address Table	4K
PoE supply management	Port 1-24 support IEEE802.3at/af PoE standard
PoE through pin	1 2 4 5 +/3 6 7 8 -
Voltage input range	AC: 100-240V~50/60Hz
Dimensions ( W x D x H )	440*178*44mm
Power Consumption	in full configuration: <250W PoE Max Power Supply: 225W
Port Features	Standard: the switch functions as a common unmanaged switch and all the ports of the switch can communicate with each other. CCTV: the port cache is optimized and PoE ports 1-8 have higher priorities over the other ports. All the ports of the switch can communicate with each other. VLAN: ports 1 to 22 are isolated from each other, but can communicate with ports 23 and 24(uplink ports) respectively. Isolation: ports 1 to 12 and Ports 13 to 24 belong to two different VLAN.This mode can be used to isolate supervision network and wireless network to make them not interfere with each other.
Environment	Operating Temperature: 0°C~40°C (32°F~104°F) Storage Temperature: -40°C~70°C (-40°F~158°F) Operating Humidity: 10%~90% non-condensing Storage Humidity: 5%~90% non-condensing





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PC:518055







## NanoStation® M NanoStation® loco M

Indoor/Outdoor airMAX® CPE

Models: NSM2, NSM3, NSM365, NSM5, locoM2, locoM5, locoM9

Cost-Effective, High-Performance

Compact and Versatile Design

Powerful Integrated Antenna



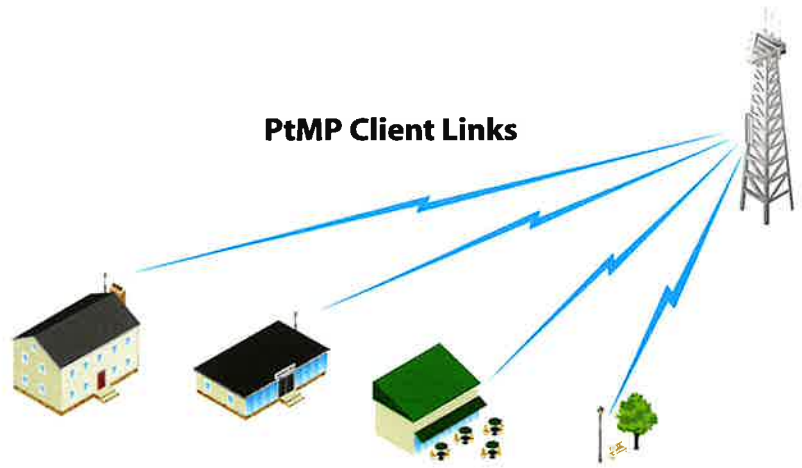
# Overview

## Leading-Edge Industrial Design

Ubiquiti Networks sets the bar for the world's first low-cost and efficient broadband Customer Premises Equipment (CPE) with the original NanoStation®. The NanoStationM and NanoStationloCoM take the same concept to the future with sleek and elegant form factors, along with integrated airMAX® (MIMO TDMA protocol) technology.

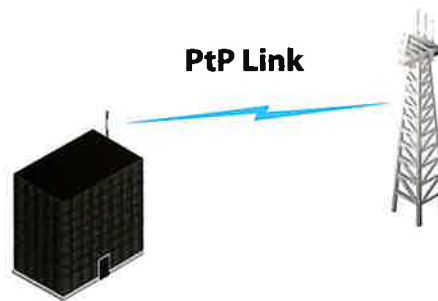
The low cost, high performance, and small form factor of NanoStationM and NanoStationloCoM make them extremely versatile and economical to deploy.

## PtMP Client Links



NanoStationM used as powerful clients in an airMAX PtMP (Point-to-Multi-Point) network setup.

## PtP Link



Use two NanoStationM devices to create a PtP link.

## Utilize airMAX Technology

Unlike standard Wi-Fi protocol, Ubiquiti's Time Division Multiple Access (TDMA) airMAX protocol allows each client to send and receive data using pre-designated time slots scheduled by an intelligent AP controller.

This "time slot" method eliminates hidden node collisions and maximizes airtime efficiency. It provides many magnitudes of performance improvements in latency, throughput, and scalability compared to all other outdoor systems in its class.

**Intelligent QoS** Priority is given to voice/video for seamless streaming.

**Scalability** High capacity and scalability.

**Long Distance** Capable of high-speed, carrier-class links.

**Latency** Multiple features dramatically reduce noise.

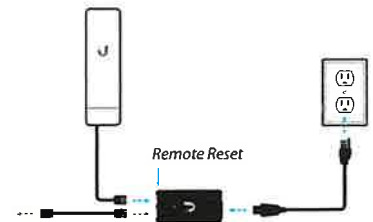
## Dual Ethernet Connectivity<sup>1</sup>

The NanoStationM provides a secondary Ethernet port with software-enabled PoE output for seamless IP video integration.



## Intelligent PoE<sup>2</sup>

The remote hardware reset circuitry of the NanoStationM allows the device to be remotely reset from the power supply location.



The NanoStationM may also be powered by the Ubiquiti Networks® EdgeSwitch™. In addition, any NanoStationM can easily become 48V, 802.3af compliant through use of the Ubiquiti® Instant 802.3af Adapter (sold separately).

<sup>1</sup> Only NanoStationM models

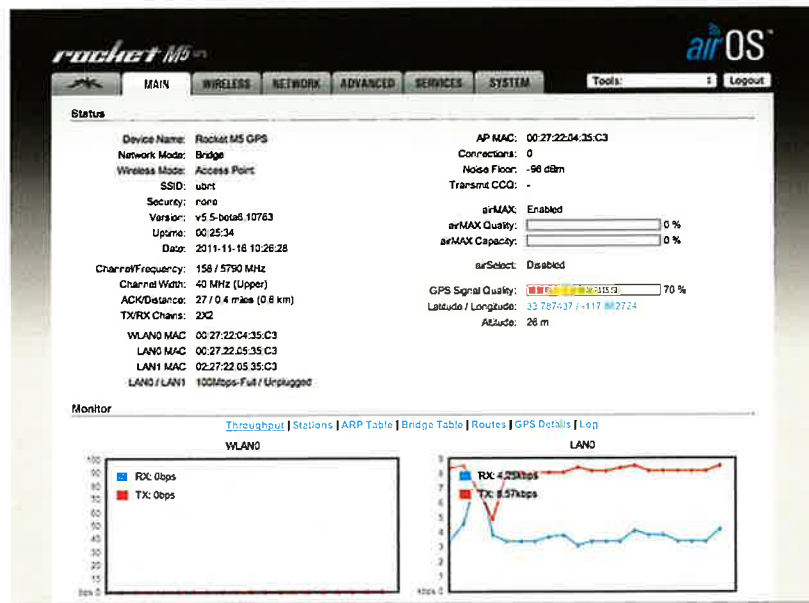
<sup>2</sup> Remote reset is an option that is sold separately as the POE-24. The NanoStationM includes a 24V PoE adapter without remote reset.

# Software

## airOS®

airOS® is an intuitive, versatile, highly developed Ubiquiti firmware technology. It is exceptionally intuitive and was designed to require no training to operate. Behind the user interface is a powerful firmware architecture, which enables high-performance, outdoor multi-point networking.

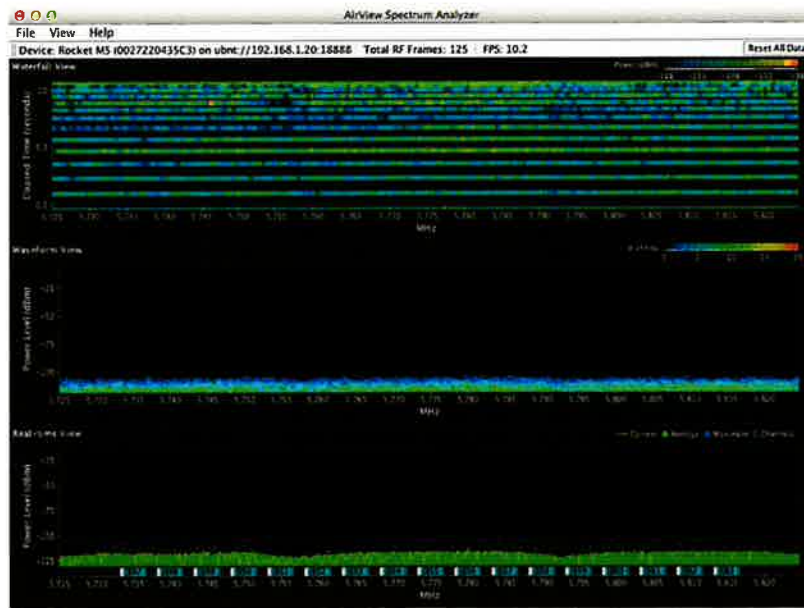
- Protocol Support
- Ubiquiti Channelization
- Spectral Width Adjustment
- ACK Auto-Timing
- AAP Technology
- Multi-Language Support



## airView®

Integrated on all Ubiquiti M products, airView® provides advanced spectrum analyzer functionality: waterfall, waveform, and real-time spectral views allow operators to identify noise signatures and plan their networks to minimize noise interference.

- **Waterfall** Aggregate energy over time for each frequency.
- **Waveform** Aggregate energy collected.
- **Real-time** Energy is shown in real time as a function of frequency.
- **Recording** Automize AirView to record and report results.



## airControl®

airControl® is a powerful and intuitive, web-based server network management application, which allows operators to centrally manage entire networks of Ubiquiti devices.

- Network Map
- Monitor Device Status
- Mass Firmware Upgrade
- Web UI Access
- Manage Groups of Devices
- Task Scheduling



# Specifications

## locoM9

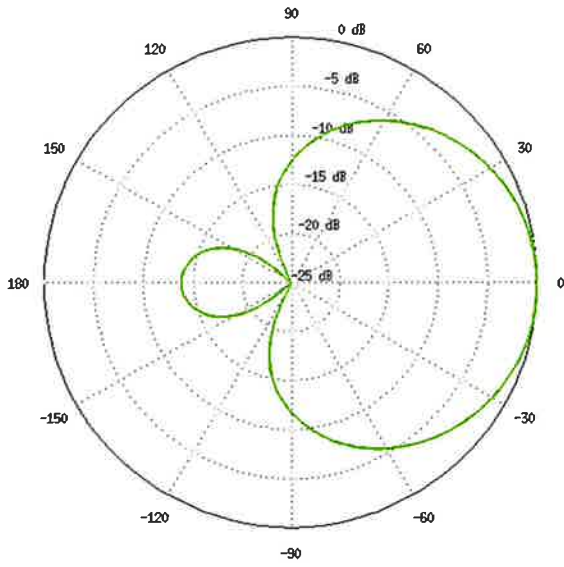
Dimensions	164 x 72 x 199 mm (6.46 x 2.83 x 7.83")
Weight	900 g (1.98 lbs)
Power Supply (PoE)	24V, 0.5A
Max. Power Consumption	6.5W
Power Method	Passive PoE (Pairs 4, 5+; 7, 8 Return)
Operating Frequency	902-928 MHz
Gain	8 dBi
Networking Interface	(1) 10/100 Ethernet Port
Processor Specs	Atheros MIPS 24Kc, 400 MHz
Memory	64 MB SDRAM, 8 MB Flash
Frequency	900 MHz
Cross-pol Isolation	28 dB Minimum
Max. VSWR	1.3:1
Beamwidth	60° (H-pol) / 60° (V-pol) / 60° (Elevation)
Polarization	Dual Linear
Enclosure	Outdoor UV Stabilized Plastic
Mounting	Pole-Mount (Kit Included)
RF Connector	External RP-SMA
Operating Temperature	-30 to 75° C (-22 to 167° F)
Operating Humidity	5 to 95% Noncondensing
Wireless Approvals	FCC Part 15.247, IC RS210
RoHS Compliance	Yes
Shock & Vibration	ETSI300-019-1.4

### Output Power: 28 dBm

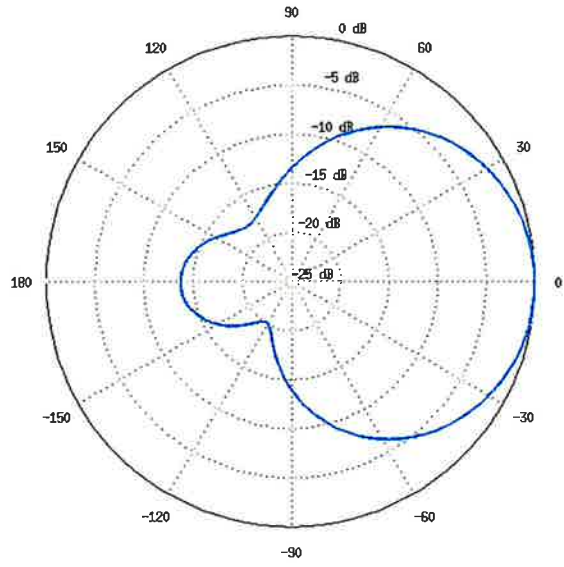
900 MHz TX Power Specifications				900 MHz RX Power Specifications			
Modulation	MCS Index	Avg. TX	Tolerance	Modulation	MCS Index	Sensitivity	Tolerance
<b>airMAX</b>	MCS0	28 dBm	± 2 dB	<b>airMAX</b>	MCS0	-96 dBm	± 2 dB
	MCS1	28 dBm	± 2 dB		MCS1	-95 dBm	± 2 dB
	MCS2	28 dBm	± 2 dB		MCS2	-92 dBm	± 2 dB
	MCS3	28 dBm	± 2 dB		MCS3	-90 dBm	± 2 dB
	MCS4	28 dBm	± 2 dB		MCS4	-86 dBm	± 2 dB
	MCS5	24 dBm	± 2 dB		MCS5	-83 dBm	± 2 dB
	MCS6	22 dBm	± 2 dB		MCS6	-77 dBm	± 2 dB
	MCS7	21 dBm	± 2 dB		MCS7	-74 dBm	± 2 dB
	MCS8	28 dBm	± 2 dB		MCS8	-95 dBm	± 2 dB
	MCS9	28 dBm	± 2 dB		MCS9	-93 dBm	± 2 dB
	MCS10	28 dBm	± 2 dB		MCS10	-90 dBm	± 2 dB
	MCS11	28 dBm	± 2 dB		MCS11	-87 dBm	± 2 dB
	MCS12	28 dBm	± 2 dB		MCS12	-84 dBm	± 2 dB
	MCS13	24 dBm	± 2 dB		MCS13	-79 dBm	± 2 dB
	MCS14	22 dBm	± 2 dB		MCS14	-78 dBm	± 2 dB
MCS15	21 dBm	± 2 dB	MCS15	-75 dBm	± 2 dB		



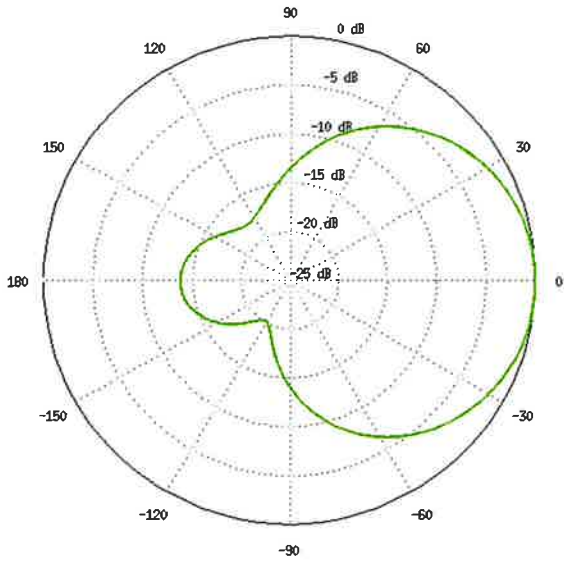
Vertical Azimuth



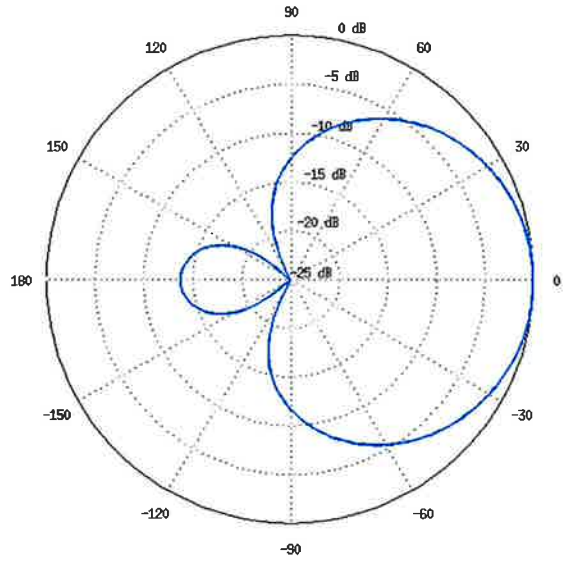
Vertical Elevation



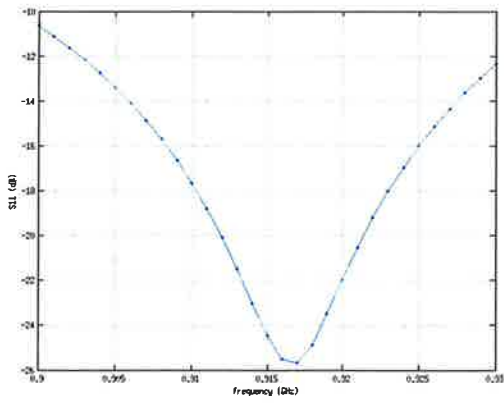
Horizontal Azimuth



Horizontal Elevation



Return Loss



# Specifications

locoM2

Dimensions	161 x 31 x 80 mm (6.31 x 1.22 x 3.15")
Weight	180 g (6.35 oz)
Power Supply (PoE)	24V, 0.5A
Max. Power Consumption	5.5W
Power Method	Passive PoE (Pairs 4, 5+; 7, 8 Return)
Operating Frequency	2412-2462 MHz
Gain	8.5 dBi
Networking Interface	(1) 10/100 Ethernet Port
Processor Specs	Atheros MIPS 24Kc, 400 MHz
Memory	32 MB SDRAM, 8 MB Flash
Frequency	2.4 GHz
Cross-pol Isolation	20 dB Minimum
Max. VSWR	1.4:1
Beamwidth	60° (H-pol) / 60° (V-pol) / 60° (Elevation)
Polarization	Dual Linear
Enclosure	Outdoor UV Stabilized Plastic
Mounting	Pole-Mount (Kit Included)
Operating Temperature	-30 to 75° C (-22 to 167° F)
Operating Humidity	5 to 95% Noncondensing
Wireless Approvals	FCC Part 15.247, IC RS210, CE
RoHS Compliance	Yes
Shock & Vibration	ETS1300-019-1.4

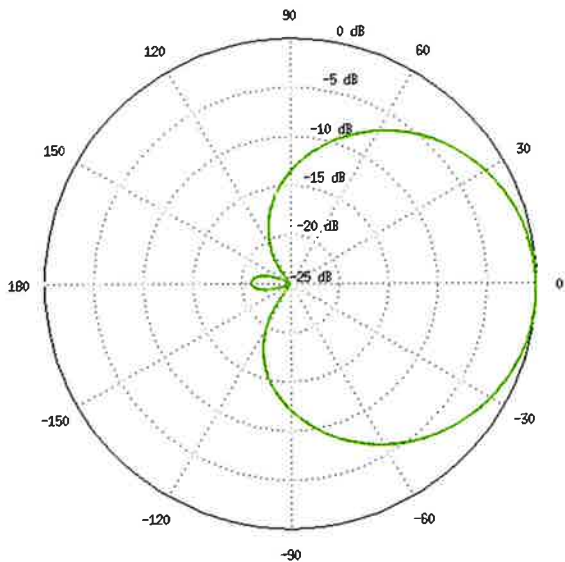
Output Power: 23 dBm

2.4 GHz TX Power Specifications				2.4 GHz RX Power Specifications			
Modulation	Data Rate/MCS	Avg. TX	Tolerance	Modulation	Data Rate/MCS	Sensitivity	Tolerance
11b/g	1-24 Mbps	23 dBm	± 2 dB	11b/g	1-24 Mbps	-83 dBm	± 2 dB
	36 Mbps	21 dBm	± 2 dB		36 Mbps	-80 dBm	± 2 dB
	48 Mbps	19 dBm	± 2 dB		48 Mbps	-77 dBm	± 2 dB
	54 Mbps	18 dBm	± 2 dB		54 Mbps	-75 dBm	± 2 dB
	MCS0	23 dBm	± 2 dB		MCS0	-96 dBm	± 2 dB
	MCS1	23 dBm	± 2 dB		MCS1	-95 dBm	± 2 dB
	MCS2	23 dBm	± 2 dB		MCS2	-92 dBm	± 2 dB
	MCS3	23 dBm	± 2 dB		MCS3	-90 dBm	± 2 dB
	MCS4	22 dBm	± 2 dB		MCS4	-86 dBm	± 2 dB
	MCS5	20 dBm	± 2 dB		MCS5	-83 dBm	± 2 dB
airMAX	MCS6	18 dBm	± 2 dB	airMAX	MCS6	-77 dBm	± 2 dB
	MCS7	17 dBm	± 2 dB		MCS7	-74 dBm	± 2 dB
	MCS8	23 dBm	± 2 dB		MCS8	-95 dBm	± 2 dB
	MCS9	23 dBm	± 2 dB		MCS9	-93 dBm	± 2 dB
	MCS10	23 dBm	± 2 dB		MCS10	-90 dBm	± 2 dB
	MCS11	23 dBm	± 2 dB		MCS11	-87 dBm	± 2 dB
	MCS12	22 dBm	± 2 dB		MCS12	-84 dBm	± 2 dB
	MCS13	20 dBm	± 2 dB		MCS13	-79 dBm	± 2 dB
	MCS14	18 dBm	± 2 dB		MCS14	-78 dBm	± 2 dB
	MCS15	17 dBm	± 2 dB		MCS15	-75 dBm	± 2 dB

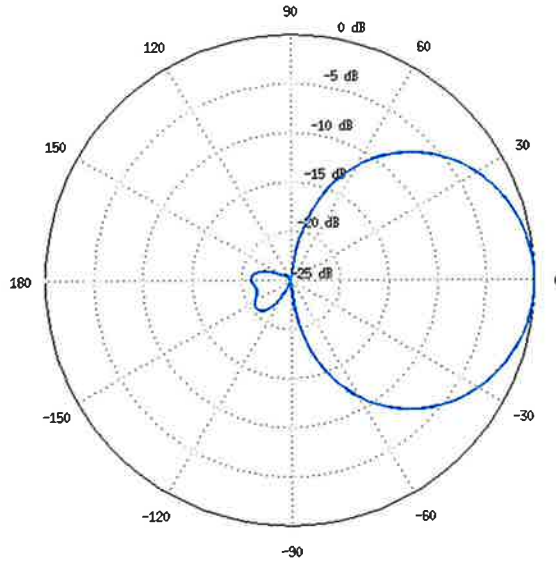


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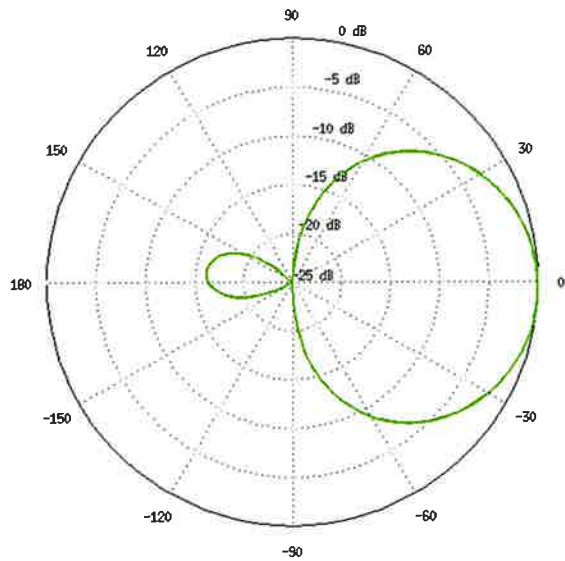
Vertical Azimuth



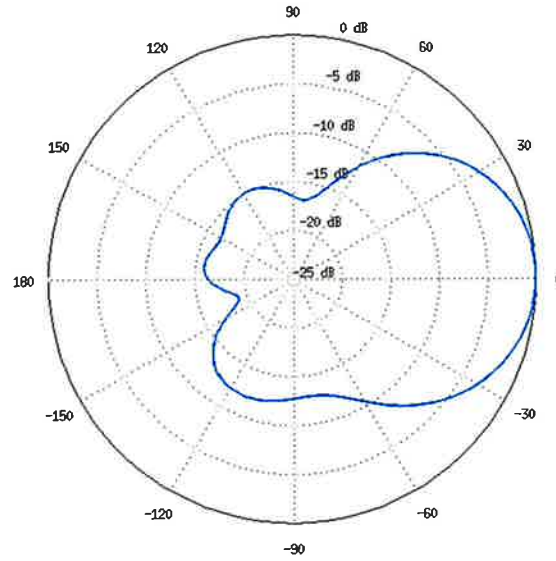
Vertical Elevation



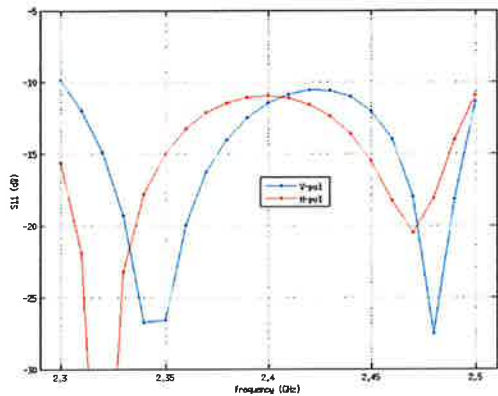
Horizontal Azimuth



Horizontal Elevation



Return Loss



# Specifications

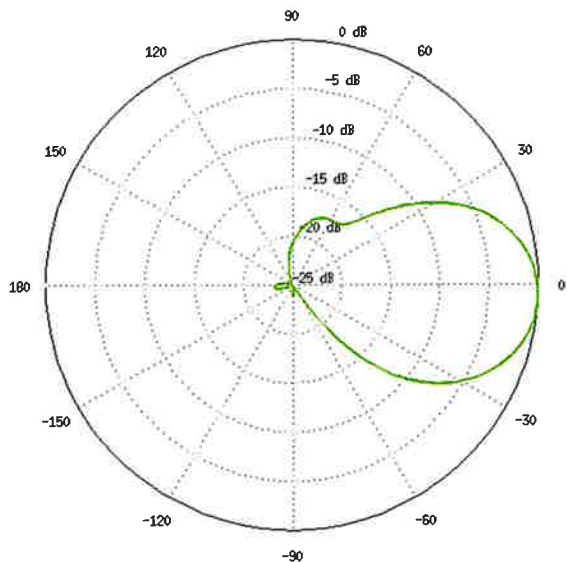
locoM5			
Dimensions	161 x 31 x 80 mm (6.31 x 1.22 x 3.15")		
Weight	180 g (6.35 oz)		
Power Supply (PoE)	24V, 0.5A		
Max. Power Consumption	5.5W		
Power Method	Passive PoE (Pairs 4, 5+; 7, 8 Return)		
Operating Frequency	Worldwide	USA	USA DFS
	5170-5875 MHz	5725-5850 MHz	5250-5850 MHz
Gain	13 dBi		
Networking Interface	(1) 10/100 Ethernet Port		
Processor Specs	Atheros MIPS 74Kc, 560 MHz		
Memory	64 MB DDR2, 8 MB Flash		
Frequency	5 GHz		
Cross-pol Isolation	20 dB Minimum		
Max. VSWR	1.4:1		
Beamwidth	45° (H-pol) / 45° (V-pol) / 45° (Elevation)		
Polarization	Dual Linear		
Enclosure	Outdoor UV Stabilized Plastic		
Mounting	Pole-Mount (Kit Included)		
Operating Temperature	-30 to 75° C (-22 to 167° F)		
Operating Humidity	5 to 95% Noncondensing		
Wireless Approvals	FCC Part 15.247, IC RS210, CE		
RoHS Compliance	Yes		
Shock & Vibration	ETSI300-019-1.4		

Output Power: 23 dBm							
5 GHz TX Power Specifications				5 GHz RX Power Specifications			
Modulation	Data Rate/MCS	Avg. TX	Tolerance	Modulation	Data Rate/MCS	Sensitivity	Tolerance
<b>11a</b>	6-24 Mbps	23 dBm	± 2 dB	<b>11a</b>	6-24 Mbps	-83 dBm	± 2 dB
	36 Mbps	21 dBm	± 2 dB		36 Mbps	-80 dBm	± 2 dB
	48 Mbps	19 dBm	± 2 dB		48 Mbps	-77 dBm	± 2 dB
	54 Mbps	18 dBm	± 2 dB		54 Mbps	-75 dBm	± 2 dB
<b>11n/airMAX</b>	MCS0	23 dBm	± 2 dB	<b>11n/airMAX</b>	MCS0	-96 dBm	± 2 dB
	MCS1	23 dBm	± 2 dB		MCS1	-95 dBm	± 2 dB
	MCS2	23 dBm	± 2 dB		MCS2	-92 dBm	± 2 dB
	MCS3	23 dBm	± 2 dB		MCS3	-90 dBm	± 2 dB
	MCS4	22 dBm	± 2 dB		MCS4	-86 dBm	± 2 dB
	MCS5	20 dBm	± 2 dB		MCS5	-83 dBm	± 2 dB
	MCS6	18 dBm	± 2 dB		MCS6	-77 dBm	± 2 dB
	MCS7	17 dBm	± 2 dB		MCS7	-74 dBm	± 2 dB
	MCS8	23 dBm	± 2 dB		MCS8	-95 dBm	± 2 dB
	MCS9	23 dBm	± 2 dB		MCS9	-93 dBm	± 2 dB
	MCS10	23 dBm	± 2 dB		MCS10	-90 dBm	± 2 dB
	MCS11	23 dBm	± 2 dB		MCS11	-87 dBm	± 2 dB
	MCS12	22 dBm	± 2 dB		MCS12	-84 dBm	± 2 dB
	MCS13	20 dBm	± 2 dB		MCS13	-79 dBm	± 2 dB
	MCS14	18 dBm	± 2 dB		MCS14	-78 dBm	± 2 dB
MCS15	17 dBm	± 2 dB	MCS15	-75 dBm	± 2 dB		

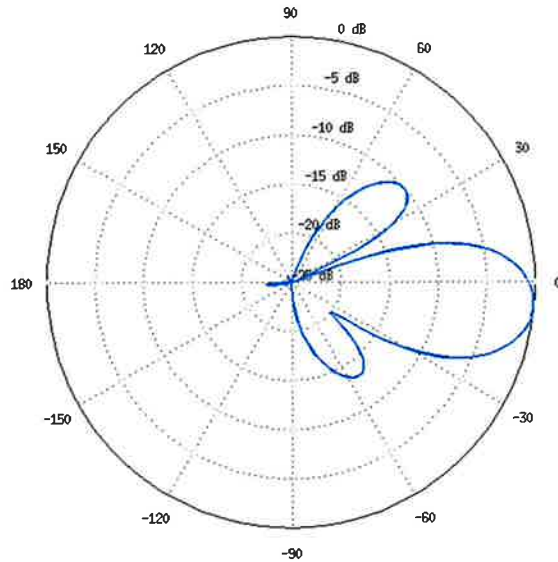




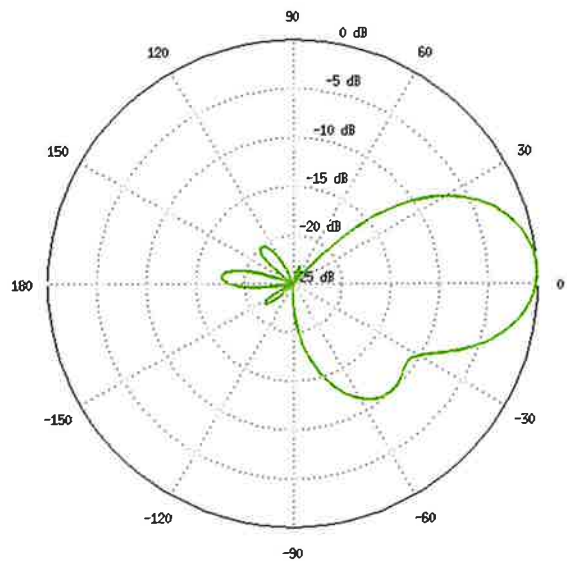
Vertical Azimuth



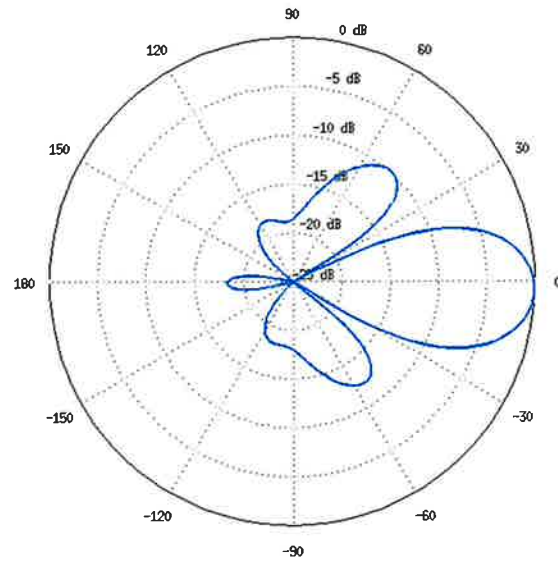
Vertical Elevation



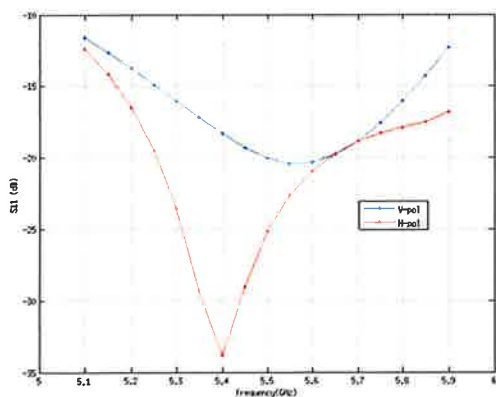
Horizontal Azimuth



Horizontal Elevation



Return Loss



000094

# Specifications

## NSM2

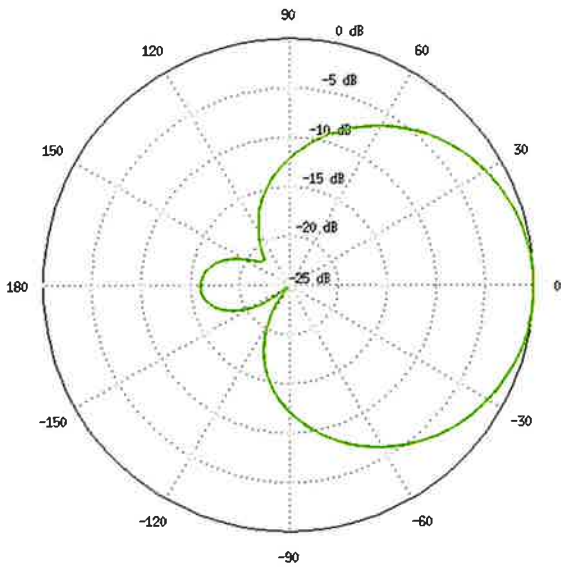
Dimensions	294 x 31 x 80 mm (11.57 x 1.22 x 3.15")
Weight	400 g (14.11 oz)
Power Supply (PoE)	24V, 0.5A
Max. Power Consumption	8W
Power Method	Passive PoE (Pairs 4, 5+; 7, 8 Return)
Operating Frequency	2412-2462 MHz
Gain	10.4-11.2 dBi
Networking Interface	(2) 10/100 Ethernet Ports
Processor Specs	Atheros MIPS 24Kc, 400 MHz
Memory	32 MB SDRAM, 8 MB Flash
Frequency	2.4 GHz
Cross-pol Isolation	23 dB Minimum
Max. VSWR	1.6:1
Beamwidth	55° (H-pol) / 53° (V-pol) / 27° (Elevation)
Polarization	Dual Linear
Enclosure	Outdoor UV Stabilized Plastic
Mounting	Pole-Mount (Kit Included)
Operating Temperature	-30 to 75° C (-22 to 167° F)
Operating Humidity	5 to 95% Noncondensing
Wireless Approvals	FCC Part 15.247, IC RS210, CE
RoHS Compliance	Yes
Shock & Vibration	ETSI300-019-1.4

## Output Power: 28 dBm

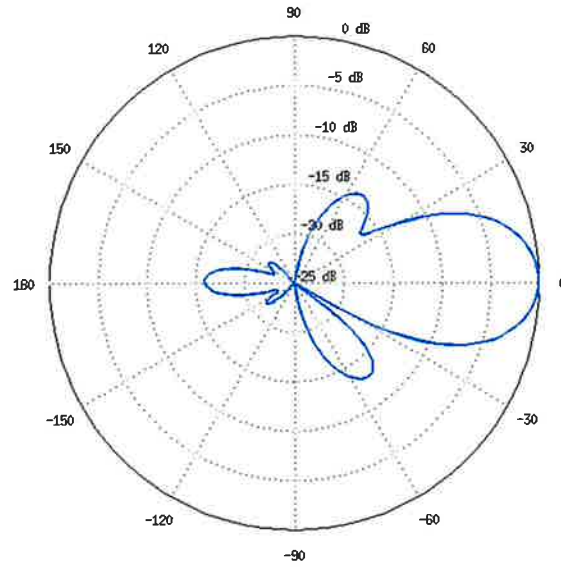
2.4 GHz TX Power Specifications				2.4 GHz RX Power Specifications			
Modulation	Data Rate/MCS	Avg. TX	Tolerance	Modulation	Data Rate/MCS	Sensitivity	Tolerance
11b/g	1-24 Mbps	28 dBm	± 2 dB	11b/g	1-24 Mbps	-83 dBm	± 2 dB
	36 Mbps	26 dBm	± 2 dB		36 Mbps	-80 dBm	± 2 dB
	48 Mbps	25 dBm	± 2 dB		48 Mbps	-77 dBm	± 2 dB
	54 Mbps	24 dBm	± 2 dB		54 Mbps	-75 dBm	± 2 dB
	MCS0	28 dBm	± 2 dB		MCS0	-96 dBm	± 2 dB
	MCS1	28 dBm	± 2 dB		MCS1	-95 dBm	± 2 dB
	MCS2	28 dBm	± 2 dB		MCS2	-92 dBm	± 2 dB
	MCS3	28 dBm	± 2 dB		MCS3	-90 dBm	± 2 dB
	MCS4	27 dBm	± 2 dB		MCS4	-86 dBm	± 2 dB
	MCS5	25 dBm	± 2 dB		MCS5	-83 dBm	± 2 dB
	MCS6	23 dBm	± 2 dB		MCS6	-77 dBm	± 2 dB
	MCS7	22 dBm	± 2 dB		MCS7	-74 dBm	± 2 dB
	MCS8	28 dBm	± 2 dB		MCS8	-95 dBm	± 2 dB
	MCS9	28 dBm	± 2 dB		MCS9	-93 dBm	± 2 dB
	MCS10	28 dBm	± 2 dB		MCS10	-90 dBm	± 2 dB
MCS11	28 dBm	± 2 dB	MCS11	-87 dBm	± 2 dB		
MCS12	27 dBm	± 2 dB	MCS12	-84 dBm	± 2 dB		
MCS13	25 dBm	± 2 dB	MCS13	-79 dBm	± 2 dB		
MCS14	23 dBm	± 2 dB	MCS14	-78 dBm	± 2 dB		
MCS15	22 dBm	± 2 dB	MCS15	-75 dBm	± 2 dB		



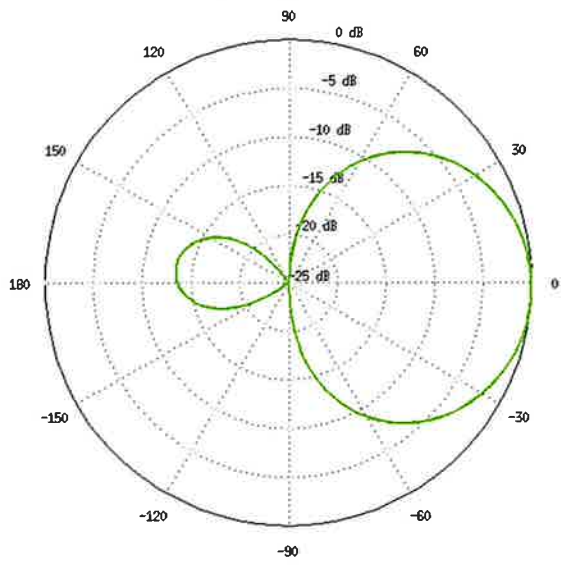
Vertical Azimuth



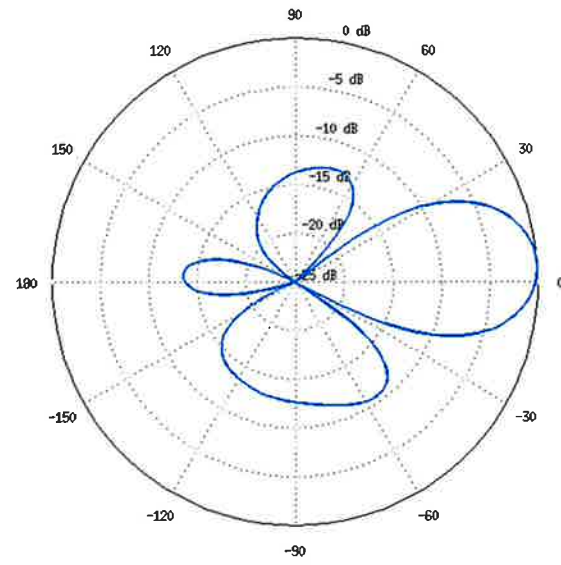
Vertical Elevation



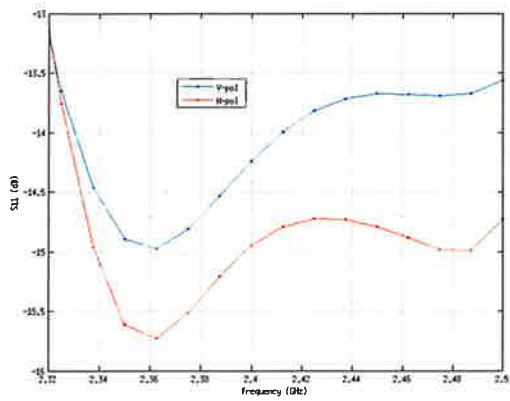
Horizontal Azimuth



Horizontal Elevation



Return Loss



# Specifications

## NSM3/M365

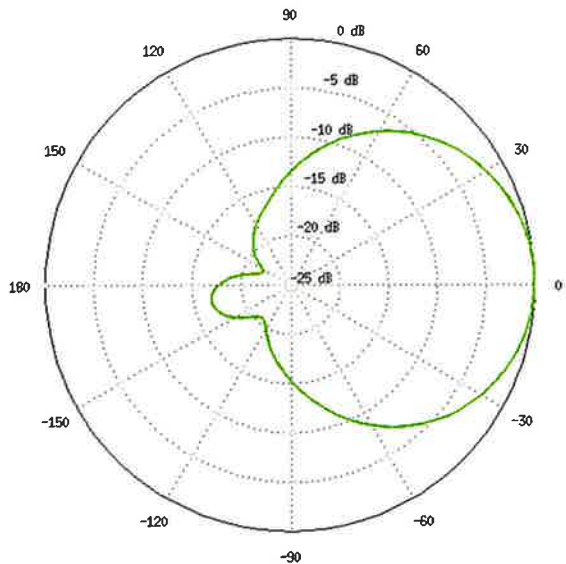
Dimensions	294 x 31 x 80 mm (11.57 x 1.22 x 3.15")	
Weight	500 g (1.1 lbs)	
Power Supply (PoE)	24V, 0.5A	
Max. Power Consumption	8W	
Power Method	Passive PoE (Pairs 4, 5+; 7, 8 Return)	
Operating Frequency	NSM3	NSM365
	3400-3700 MHz	3650-3675 MHz
Gain	12.2-13.7 dBi	
Networking Interface	(2) 10/100 Ethernet Ports	
Processor Specs	Atheros MIPS 24Kc, 400 MHz	
Memory	32 MB SDRAM, 8 MB Flash	
Frequency	NSM3	NSM365
	3 GHz	3.65 GHz
Cross-pol Isolation	28 dB Minimum	
Max. VSWR	1.4:1	
Beamwidth	60° (H-pol) / 60° (V-pol) / 20° (Elevation)	
Polarization	Dual Linear	
Enclosure	Outdoor UV Stabilized Plastic	
Mounting	Pole-Mount (Kit Included)	
Operating Temperature	-30 to 75° C (-22 to 167° F)	
Operating Humidity	5 to 95% Noncondensing	
Wireless Approvals	NSM3	NSM365
	Not Applicable	FCC Part 90Z
RoHS Compliance	Yes	
Shock & Vibration	ETSI300-019-1.4	

## Output Power: 25 dBm

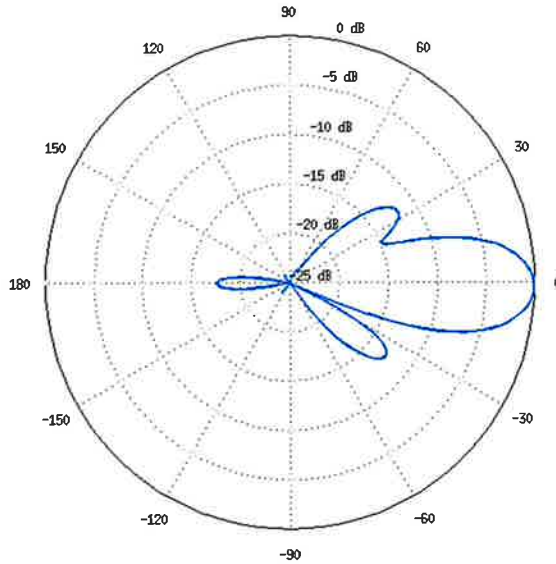
TX Power Specifications				RX Power Specifications			
Modulation	MCS Index	Avg. TX	Tolerance	Modulation	MCS Index	Sensitivity	Tolerance
airMAX	MCS0	25 dBm	± 2 dB	airMAX	MCS0	-94 dBm	± 2 dB
	MCS1	25 dBm	± 2 dB		MCS1	-93 dBm	± 2 dB
	MCS2	25 dBm	± 2 dB		MCS2	-90 dBm	± 2 dB
	MCS3	25 dBm	± 2 dB		MCS3	-89 dBm	± 2 dB
	MCS4	24 dBm	± 2 dB		MCS4	-86 dBm	± 2 dB
	MCS5	23 dBm	± 2 dB		MCS5	-83 dBm	± 2 dB
	MCS6	22 dBm	± 2 dB		MCS6	-77 dBm	± 2 dB
	MCS7	20 dBm	± 2 dB		MCS7	-74 dBm	± 2 dB
	MCS8	25 dBm	± 2 dB		MCS8	-93 dBm	± 2 dB
	MCS9	25 dBm	± 2 dB		MCS9	-91 dBm	± 2 dB
	MCS10	25 dBm	± 2 dB		MCS10	-89 dBm	± 2 dB
	MCS11	25 dBm	± 2 dB		MCS11	-87 dBm	± 2 dB
	MCS12	24 dBm	± 2 dB		MCS12	-84 dBm	± 2 dB
	MCS13	23 dBm	± 2 dB		MCS13	-79 dBm	± 2 dB
	MCS14	22 dBm	± 2 dB		MCS14	-78 dBm	± 2 dB
MCS15	20 dBm	± 2 dB	MCS15	-75 dBm	± 2 dB		



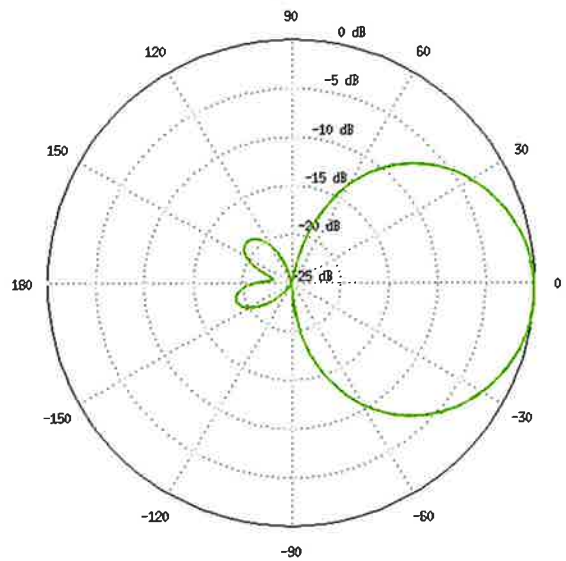
Vertical Azimuth



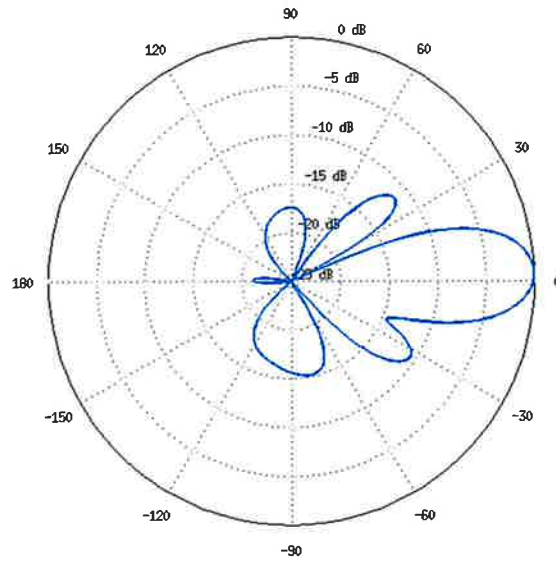
Vertical Elevation



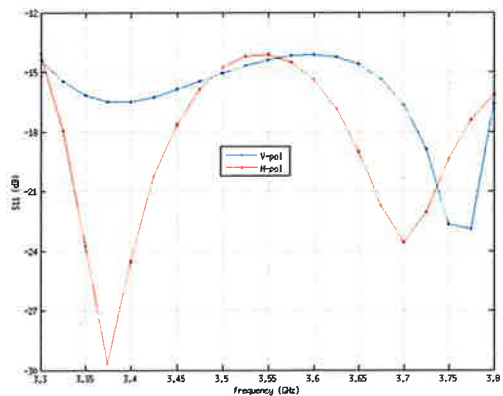
Horizontal Azimuth



Horizontal Elevation



Return Loss



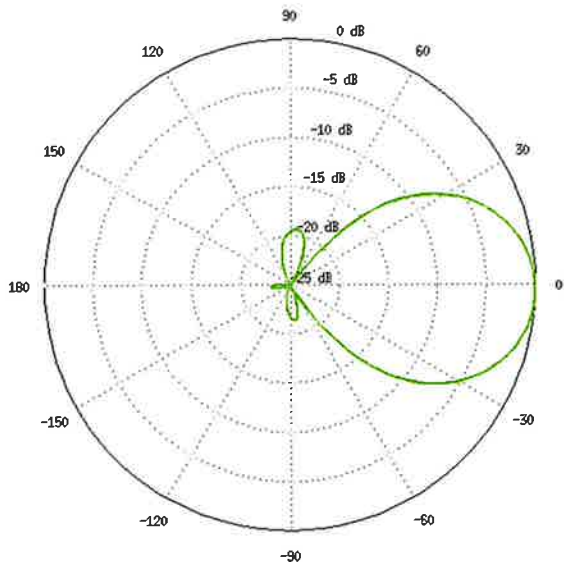
# Specifications

NSM5			
Dimensions	294 x 31 x 80 mm (11.57 x 1.22 x 3.15")		
Weight	400 g (14.11 oz)		
Power Supply (PoE)	24V, 0.5A		
Max. Power Consumption	8W		
Power Method	Passive PoE (Pairs 4, 5+; 7, 8 Return)		
Operating Frequency	Worldwide	USA	USA DFS
	5170-5875 MHz	5725-5850 MHz	5250-5850 MHz
Gain	14.6-16.1 dBi		
Networking Interface	(2) 10/100 Ethernet Ports		
Processor Specs	Atheros MIPS 74Kc, 560 MHz		
Memory	64 MB DDR2, 8 MB Flash		
Frequency	5 GHz		
Cross-pol Isolation	22 dB Minimum		
Max. VSWR	1.6:1		
Beamwidth	43° (H-pol) / 41° (V-pol) / 15° (Elevation)		
Polarization	Dual Linear		
Enclosure	Outdoor UV Stabilized Plastic		
Mounting	Pole-Mount (Kit Included)		
Operating Temperature	-30 to 75° C (-22 to 167° F)		
Operating Humidity	5 to 95% Noncondensing		
Wireless Approvals	FCC Part 15.247, IC RS210, CE		
RoHS Compliance	Yes		
Shock & Vibration	ETSI300-019-1.4		

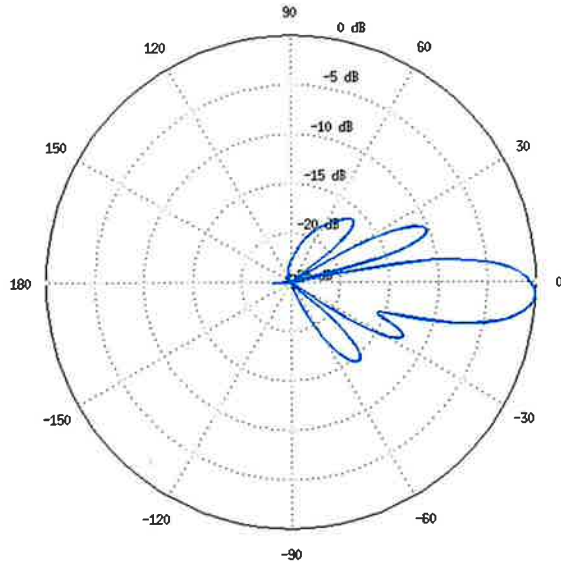
Output Power: 27 dBm							
5 GHz TX Power Specifications				5 GHz RX Power Specifications			
Modulation	Data Rate/MCS	Avg. TX	Tolerance	Modulation	Data Rate/MCS	Sensitivity	Tolerance
<b>11a</b>	6-24 Mbps	27 dBm	± 2 dB	<b>11a</b>	6-24 Mbps	-94 dBm	± 2 dB
	36 Mbps	25 dBm	± 2 dB		36 Mbps	-80 dBm	± 2 dB
	48 Mbps	23 dBm	± 2 dB		48 Mbps	-77 dBm	± 2 dB
	54 Mbps	22 dBm	± 2 dB		54 Mbps	-75 dBm	± 2 dB
<b>11n/airMAX</b>	MCS0	27 dBm	± 2 dB	<b>11n/airMAX</b>	MCS0	-96 dBm	± 2 dB
	MCS1	27 dBm	± 2 dB		MCS1	-95 dBm	± 2 dB
	MCS2	27 dBm	± 2 dB		MCS2	-92 dBm	± 2 dB
	MCS3	27 dBm	± 2 dB		MCS3	-90 dBm	± 2 dB
	MCS4	26 dBm	± 2 dB		MCS4	-86 dBm	± 2 dB
	MCS5	24 dBm	± 2 dB		MCS5	-83 dBm	± 2 dB
	MCS6	22 dBm	± 2 dB		MCS6	-77 dBm	± 2 dB
	MCS7	21 dBm	± 2 dB		MCS7	-74 dBm	± 2 dB
	MCS8	27 dBm	± 2 dB		MCS8	-95 dBm	± 2 dB
	MCS9	27 dBm	± 2 dB		MCS9	-93 dBm	± 2 dB
	MCS10	27 dBm	± 2 dB		MCS10	-90 dBm	± 2 dB
	MCS11	27 dBm	± 2 dB		MCS11	-87 dBm	± 2 dB
	MCS12	26 dBm	± 2 dB		MCS12	-84 dBm	± 2 dB
	MCS13	24 dBm	± 2 dB		MCS13	-79 dBm	± 2 dB
	MCS14	22 dBm	± 2 dB		MCS14	-78 dBm	± 2 dB
MCS15	21 dBm	± 2 dB	MCS15	-75 dBm	± 2 dB		



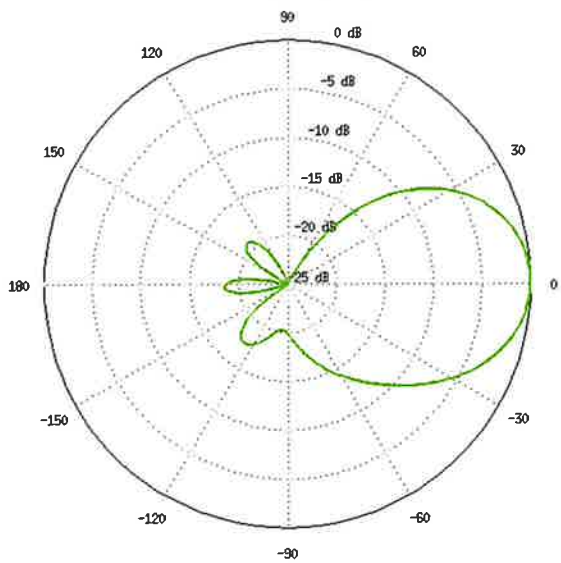
Vertical Azimuth



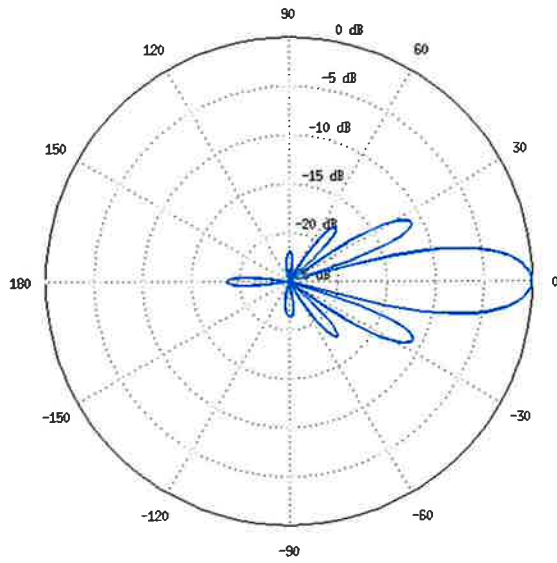
Vertical Elevation



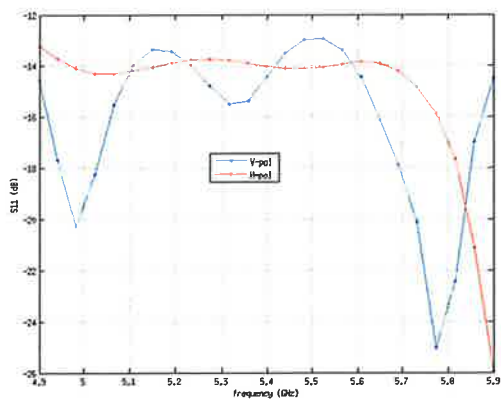
Horizontal Azimuth



Horizontal Elevation



Return Loss



Specifications are subject to change. Ubiquiti products are sold with a limited warranty described at: [www.ubnt.com/support/warranty](http://www.ubnt.com/support/warranty)  
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## DS-K1201AMF

### Fingerprint and Card Reader



- A group of messy code encrypted data for the security of fingerprint storage
- Supports RS-485 communication with 19200bps-N-8-1 transmission rate. There are CRC test for the protocol
- Supports M1 card reading
- Card induction distance is 30 mm to 100 mm
- Supports multiple authentication modes (card, fingerprint, and card + fingerprint)
- Optical CMOS fingerprint module. The characters of fingerprint can be export to the card reader
- Max. 5000 fingerprints storage
- Adopts the optical fingerprint module, supporting 1:N mode (fingerprint, card + fingerprint) and 1:1 mode (card + fingerprint)
- Fingerprint comparison time: 1:1  $\leq$  1 s, 1:1000  $\leq$  1 s; FRR  $\leq$  0.01%, FAR  $\leq$  0.001%
- Communication circuit is designed with optical coupling isolation and noise suppression function
- Built-in buzzer for status indication
- Accurate data and time display provided by built-in electronic clock and watchdog program to ensure the basic function of the terminal
- Tamper-proof function





## ▪ Specification

### Network

Communication protocol RS-485

### Interface

TAMPER 1

### Capacity

Fingerprint capacity 5000

### Authentication

Fingerprint module Optical fingerprint module

Fingerprint comparing mode 1:1/1:N

Card type Mifare 1 card

### General

Power supply 12 VDC  $\pm$  10%

Working temperature -40 °C to 70 °C (-40 °F to 158 °F)

Working humidity 10% to 90% (No condensing)

Protective level IP65

Dimensions 62 mm  $\times$  132 mm  $\times$  44 mm (2.44"  $\times$  5.20"  $\times$  1.73")

Installation Surface mounting

Buzzer Support

## ▪ Available Model

DS-K1201AMF



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**DS-K7F01****Side pedestal for Tripod Turnstile K3G501(Fence type)**

- Material: SUS304, Acrylic glass
- only one model available: Installs with the Base-Module with "-F" type



## ▪ Specification

### Others

Pedestal material	SUS304&Acrylic glass
Dimensions	1200mm x 115mm x 980mm ( L x W x H )
Application environment	Indoor and outdoor

## ▪ Accessory

### ▪ Optional

<b>DS-K3G501</b>	<b>DS-K3G501-BASE</b>
<b>Tripod Turnstile</b>	<b>DS-K3G501-BASE</b>



## ▪ Available Model

DS-K7F01-KIT-P1200(海外标配),

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## DS-K7C01 Stand Pole



- Support a variety of peripheral installations, such as card, QR code, exit button.
- In the case of pushing goods and cycling, swiping cards from a distance.



## ▪ Specification

Interface	
Exit button	1 for exit button pole
RS-485	1 for card reader and Qr code reader
General	
Pedestal material	SUS304 stainless steel
Built-in access controller	No
Indicator	Support
Power supply	DC 12 V 2A
Power consumption	6 W for card reader post 12 W for QR & card reader post
Working temperature	-20°C ~ 65°C (-4°F ~ 149°F)
Working humidity	0% to 95% (No Condensing)
Dimensions	Without Packaging: 900mm x $\phi$ 137mm (35.4' x $\phi$ 5.4') With Packaging: 1105mm x 215mm x 225mm (43.5' x 8.5' x 8.9')
Weight	card pole: (Net) Left: 3.75 kg (8.3 lb); (Rough) Left: 4.8 kg (10.6 lb); Qr & card or push button pole: (Net) Left: 3.53 kg (7.8 lb); (Rough) Left: 4.87 kg (10.7 lb);
Application environment	Indoor and outdoor

## ▪ Maintenance

The main element of the turnstile is stainless steel, which is rustless (antioxidant) and corrosion resistant (The anti corrosion ability in the medium of acid, alkali, and salt). In order to keep the stainless steel from being oxidized or corroded, you should clean and care the turnstile surface periodically .

The instructions and tips for maintaining the turnstile are as follows:

- Select different stainless steel types according to the variety of the environments. You can select 304 stainless steel for common circumstances and 316 stainless steel for the scenarios of seashores and chemical plants.
- Keep the device surface clean and dry.
- Use non-woven cloth and ethyl alcohol to clean the dirt on the device surface.
- Use sourcing pad (do not use mesh cleaning ball) to clean the rust on the device surface by following the wire drawing on the stainless steel. And then use non-woven cloth and stainless steel cleaner to wipe the device surface.
- Clean and maintain the device by using non-woven cloth and stainless steel cleaner periodically. It is suggest to clean the device every month in common circumstances and every week for severe environments (seaside and chemical plants for instance).

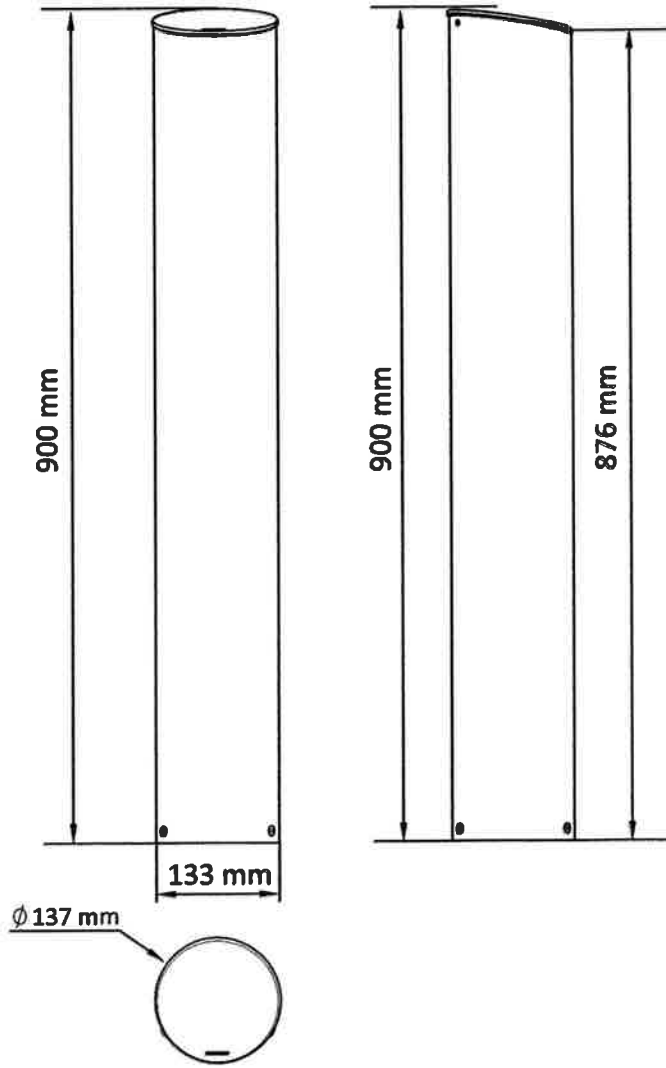
## ▪ Available Model

DS-K7C01/Q,DS-K7C01/D,DS-K7C01/ED,DS-K7C01/DQ,DS-K7C01/EQDS-K7C01/B,DS-K7C01/E



000107

▪ Dimension



A handwritten signature in blue ink is overlaid on a circular blue stamp. The stamp contains some illegible text around its perimeter.

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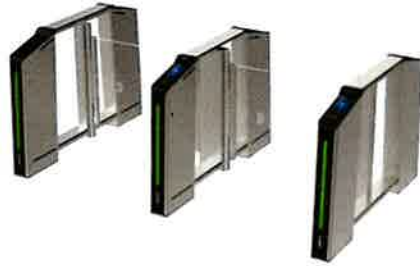
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## DS-K3B631TX

### Smart Swing Barrier



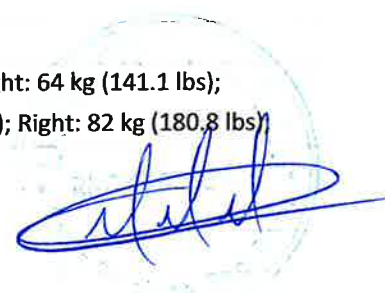
The DS-K3B631TX series swing barrier with 20 pairs of IR lights is designed to detect unauthorized entrance or exit. By adopting the swing barrier integratedly with the access control system, person should authenticate to pass through the lane via swiping IC or ID card, scanning QR code, etc. It is widely used in attractions, stadiums, construction sites, residences, etc.

- 20 pairs of IR light detectors: Permissions validation and anti-tailgating
- Arrow LED light indicates passing direction
- Audible and visual nipping alarm: The barrier will stop working for a period of time when detecting obstruction when open/close barrier
- Self-detection, Self-diagnostics, and automatic alarm
- Valid passing duration settings: System will cancel the passing permission if a person does not pass through the lane within the valid passing duration
- Door remaining open when fire alarm triggered: The barrier will open automatically when alarm is triggered.



## ▪ Specification

<b>System</b>	
MCBF	> 12 million times
Motor	Servo motor
<b>Display</b>	
Screen size	6.95 inch
Operation method	touch (only single side)
Resolution	600*1024
<b>Interface</b>	
Network interface	1
Exit button	2
Lock control	2
Alarm input	2
Alarm output	2
Wiegand	2
<b>Capacity</b>	
User capacity	50,000
Face capacity	50,000
Card capacity	250,000
Event capacity	1,000,000
<b>Authentication</b>	
Face recognition distance	2m
Face recognition accuracy rate	≥99%
Face recognition duration	0.3s
<b>General</b>	
Throughput	30 to 60 persons per minute The actual throughput is affected by the person passing rate and passing method.
Power supply method	100 to 240 VAC; 50 to 60 Hz
IR light detectors	20 pairs
Working temperature	-10 °C to 50 °C
Lane width	550 mm to 1100 mm (21.65" to 43.31")
Built-in access controller	Yes
Working humidity	10% to 95% (No Condensing)
Dimensions	Without Packaging: 1500 mm × 130 mm × 1000 mm (59.05"× 5.12"× 39.37") With Packaging: 1690 mm × 465 mm × 1105 mm (66.54"× 18.31"× 43.5")
Barrier material	Acrylic glass
Pedestal material	SUS304 stainless steel
Weight	(Net) Left: 62 kg (136.7 lbs); Middle: 105 kg (231.5 lbs); Right: 64 kg (141.1 lbs); (Rough) Left: 80 kg (176.4 lbs); Middle: 123.2 kg (271.6 lbs); Right: 82 kg (180.8 lbs)
Approval	CE/FCC/CB/RoHS/REACH/WEEE
Power consumption	70W (stand by)
Application environment	Indoor



## ▪ Maintenance

The main element of the turnstile is stainless steel, which is rustless (antioxidant) and corrosion resistant (The anti corrosion ability in the medium of acid, alkali, and salt). In order to keep the stainless steel from being oxidized or corroded, you should clean and care the turnstile surface periodically .

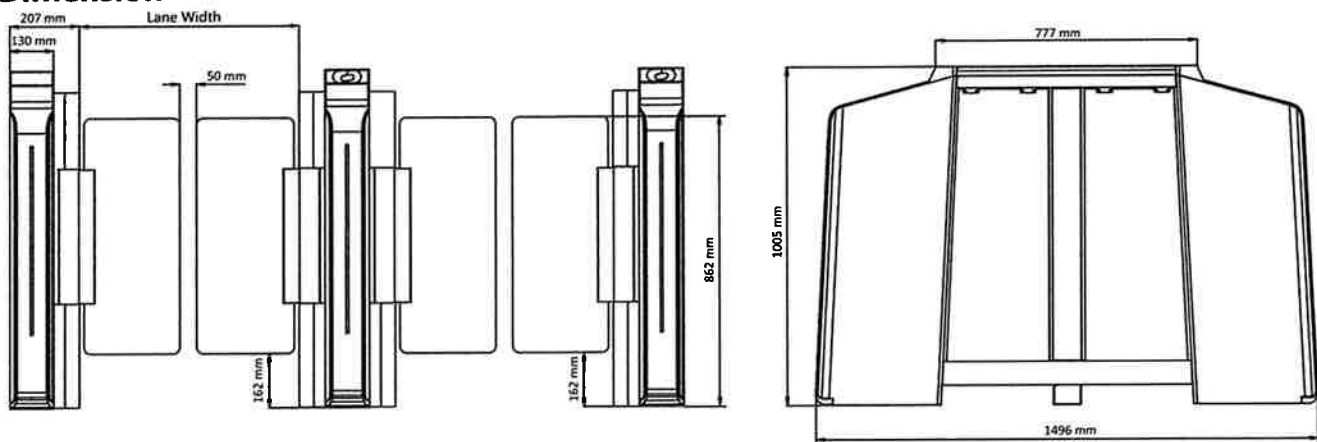
The instructions and tips for maintaining the turnstile are as follows:

- Select different stainless steel types according to the variety of the environments. You can select 304 stainless steel for common circumstances and 316 stainless steel for the scenarios of seashores and chemical plants.
- Keep the device surface clean and dry.
- Use non-woven cloth and ethyl alcohol to clean the dirt on the device surface.
- Use sourcing pad (do not use mesh cleaning ball) to clean the rust on the device surface by following the wire drawing on the stainless steel. And then use non-woven cloth and stainless steel cleaner to wipe the device surface.
- Clean and maintain the device by using non-woven cloth and stainless steel cleaner periodically. It is suggest to clean the device every month in common circumstances and every week for severe environments (seaside and chemical plants for instance).

## ▪ Available Model

DS-K3B631TX-L/EPiL-Dp110,DS-K3B631TX-R/EPiQL-Dp110,DS-K3B631TX-L/MPiQL-Dp65,DS-K3B631TX-M/MPiQL-Dp65, DS-K3B631TX-R/MPiQL-Dp65,DS-K3B631TX-L/EPiL-Dp65,DS-K3B631TX-L/PiL-Dp65,DS-K3B631TX-L/PiL-Dp110, DS-K3B631TX-L/MPiQL-Dp110,DS-K3B631TX-M/EPiL-Dp65,DS-K3B631TX-M/PiL-Dp65,DS-K3B631TX-M/PiL-Dp110, DS-K3B631TX-M/MPiQL-Dp110,DS-K3B631TX-R/EPiL-Dp65,DS-K3B631TX-R/PiL-Dp65,DS-K3B631TX-R/PiL-Dp110, DS-K3B631TX-R/MPiQL-Dp110,DS-K3B631TX-M/MPiQL-Dp65/868,DS-K3B631TX-R/MPiQL-Dp65/868

## ▪ Dimension



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## DS-2CD6825G0/C-IV(S)(B) 2 MP IR Network Camera



- High quality imaging with 2 MP resolution
- Efficient H.265+ compression technology
- Clear imaging against strong back light due to 120 dB true WDR technology
- 3D DNR technology delivers clean and sharp images
- -S: audio and alarm interface available
- Water and dust resistant (IP67)



## ▪ Specification

### Camera

Image Sensor	1/2.7" Progressive Scan CMOS
Max. Resolution	2560 × 1440
Min. Illumination	Color: 0.0176 Lux @ (F2.25, AGC ON), B/W: 0.0035 Lux @ (F2.25, AGC ON), B/W: 0 Lux with IR
Shutter Time	1/25 s to 1/100,000 s
Day & Night	IR cut filter

### Lens

Lens Type	Fixed focal lens, 2 mm
Focal Length & FOV	2 mm, horizontal FOV 104.5°, vertical FOV 70.5°, diagonal FOV 112°
Lens Mount	M12
Aperture	F2.25

### Illuminator

Supplement Light Type	IR
Supplement Light Range	Up to 6 m
IR Wavelength	850 nm

### Video

Main Stream	50 Hz: 25 fps (2560 × 1440, 1920 × 1080, 1280 × 720)
	60 Hz: 30 fps (2560 × 1440, 1920 × 1080, 1280 × 720)
Sub-Stream	50 Hz: 25 fps (704 × 576, 640 × 480)
	60 Hz: 30 fps (704 × 480, 640 × 480)
Video Compression	Main stream: H.265+/H.265/H.264+/H.264, Sub-stream: H.265/H.264/MJPEG
Video Bit Rate	32 Kbps to 8 Mbps
H.264 Type	Baseline Profile, Main Profile, High Profile
H.265 Type	Main Profile
Scalable Video Coding (SVC)	H.264 and H.265 encoding
Region of Interest (ROI)	4 fixed region(s) for main stream and sub-stream

### Audio

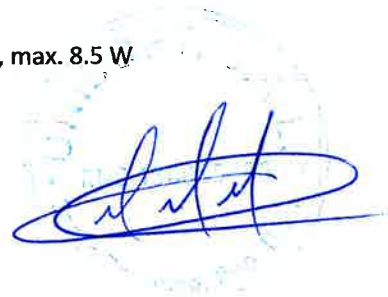
Audio Type	-S: Mono sound
Audio Compression	-S: G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC
Audio Bit Rate	-S: 64 Kbps (G.711ulaw/G.711alaw)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 to 192 Kbps (MP2L2)/8 to 320 Kbps (MP3)/16 to 64 Kbps (AAC-LC)
Audio Sampling Rate	-S: 8 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz
Environment Noise Filtering	-S: Yes

### Network

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, SSL/TLS
Simultaneous Live View	Up to 20 channels
API	Open Network Video Interface (Profile S, Profile G), ISAPI, SDK
User/Host	Up to 32 users 3 user levels: administrator, operator, and user



Security	<p>Password protection, complicated password, HTTPS encryption, 802.1X authentication (EAP-TLS, EAP-LEAP, EAP-MD5), watermark, IP address filter, basic and digest authentication for HTTP/HTTPS, WSSE and digest authentication for Open Network Video Interface, RTP/RTSP over HTTPS, control timeout settings, security audit log, TLS 1.3, host authentication (MAC address)</p>
Client	iVMS-4200, Hik-Connect
Web Browser	<p>Plug-in required live view: IE 10, IE 11,          Plug-in free live view: Chrome 57.0+, Firefox 52.0+,          Local service: Chrome 57.0+, Firefox 52.0+, Safari12+</p>
<b>Image</b>	
Image Settings	Saturation, brightness, contrast, sharpness, adjustable by client software or web browser
Day/Night Switch	Day, Night, Auto, Schedule, Alarm Trigger (-S)
Wide Dynamic Range (WDR)	120 dB
Image Enhancement	BLC, HLC, 3D DNR, defog
Picture Overlay	LOGO picture can be overlaid on video with 128 × 128 24 bit bmp format.
<b>Interface</b>	
Ethernet Interface	1 RJ45 10 M/100 M self-adaptive Ethernet port
On-Board Storage	Built-in eMMC storage, up to 8 GB for people counting data
Built-in Microphone	Yes
Audio	<p>-S: 1 input (line in), two-core terminal block, max. input amplitude: 3.3 Vpp, input impedance: 4.7 K<math>\Omega</math>, interface type: non-equilibrium,          -S: 1 output (line out), two-core terminal block, max. output amplitude: 3.3 Vpp, output impedance: 100 <math>\Omega</math>, interface type: non-equilibrium</p>
Alarm	-S: 1 input(s), 1 output(s) (max. 24 VDC/24 VAC, 1 A)
RS-485	-S: 1 RS-485 (Half duplex, HIKVISION, Pelco-P, Pelco-D, self-adaptive)
<b>Event</b>	
Basic Event	Motion detection, video tampering alarm, network disconnected, IP address conflict, illegal login, HDD full, HDD error
Linkage	Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger recording, trigger capture
<b>Deep Learning Function</b>	
People Counting	<p>Counts people entering and exiting separately          Supports real-time uploading and uploading by statistic cycle          Sends email reports on daily, weekly, monthly or annually basis          Supports target filtering by height</p>
<b>General</b>	
Power	<p>12 VDC <math>\pm</math> 20%, 0.58 A, max. 7.0 W, <math>\varnothing</math>5.5 mm coaxial power plug, reverse polarity protection,          PoE: 802.3af, Type 1, Class 3, 36 V to 57 V, 0.24 A to 0.15 A, max. 8.5 W</p>
Material	Front cover: plastic, camera body: metal
Dimension	168 mm × 61 mm × 41 mm (6.6" × 2.4" × 1.6")
Package Dimension	235 mm × 120 mm × 125 mm (9.2" × 4.7" × 4.9")
Weight	Approx. 435 g (1 lb.)
With Package Weight	Approx. 835 g (1.6 lb.)



Storage Conditions	-30 °C to 60 °C (-22 °F to 144 °F). Humidity 95% or less (non-condensing)
Startup and Operating Conditions	-30 °C to 60 °C (-22 °F to 140 °F). Humidity 95% or less (non-condensing)
Language	32 languages: English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian, Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian, Danish, Swedish, Norwegian, Finnish, Croatian, Slovenian, Serbian, Turkish, Korean, Traditional Chinese, Thai, Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazil)
General Function	Heartbeat, anti-flicker, mirror, password protection

**Approval**

EMC	FCC: 47 CFR Part 15, Subpart B, IC: ICES-003: Issue 7, KC: KN32: 2015, KN35: 2015, CE-EMC: EN 55032: 2015, EN 61000-3-2:2019, EN 61000-3-3: 2013+A1:2019, EN 50130-4: 2011 +A1: 2014, RCM: AS/NZS 60950.1:2003 + Am1, Am2 and Am3,AS/NZS CISPR 32:2015 UL: UL 62368-1, CB: IEC 62368-1: 2014+A11,
Safety	CE-LVD: EN 62368-1: 2014/A11: 2017, BIS: IS 13252 (Part 1): 2010/IEC 60950-1: 2005, LOA: IEC/EN 60950-1
Environment Protection	CE-RoHS: 2011/65/EU+2015/863 IP67: IEC 60529-2013

**▪ Available Model**

- DS-2CD6825G0/C-IVS(B) (2 mm)
- DS-2CD6825G0/C-IV(B) (2 mm)

**▪ Typical Application**

Hikvision products are classified into three levels according to their anti-corrosion performance. Refer to the following description to choose for your using environment.

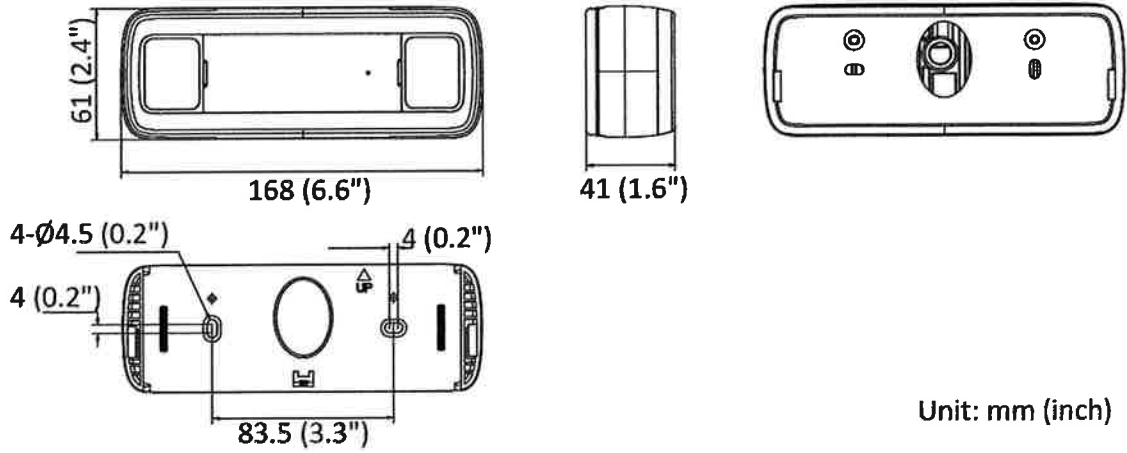
This model has NO SPECIFIC PROTECTION.

Level	Description
Top-level protection	Hikvision products at this level are equipped for use in areas where professional anti-corrosion protection is a must. Typical application scenarios include coastlines, docks, chemical plants, and more.
Moderate protection	Hikvision products at this level are equipped for use in areas with moderate anti-corrosion demands. Typical application scenarios include coastal areas about 2 kilometers (1.24 miles) away from coastlines, as well as areas affected by acid rain.
No specific protection	Hikvision products at this level are equipped for use in areas where no specific anti-corrosion protection is needed.

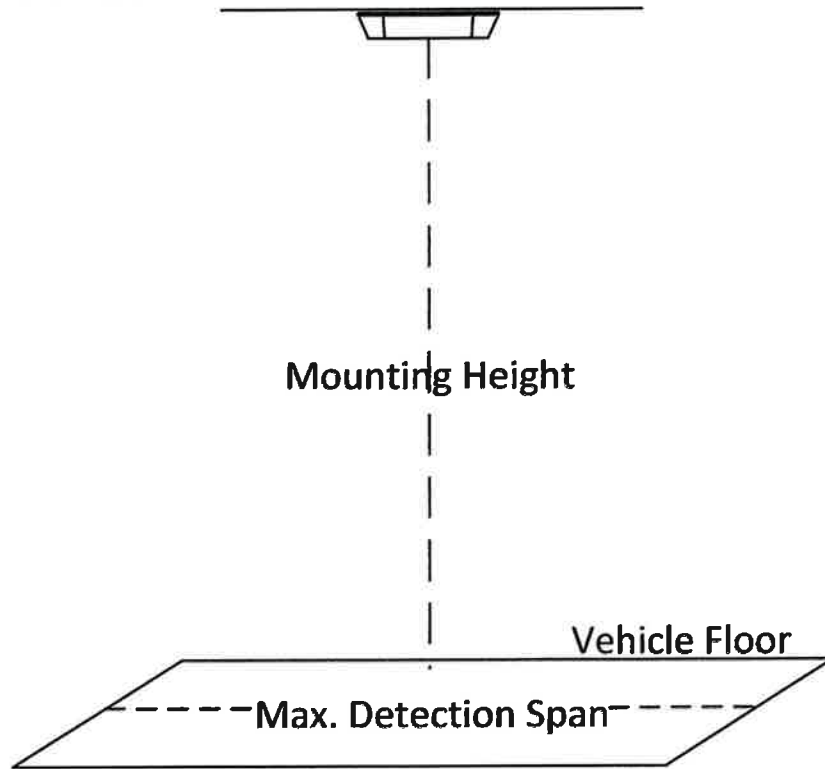




▪ **Dimension**



▪ **Installation Recommendation**



Focal Length (mm)	Mounting Height (m)	Max. Detection Span (m)
2	2.1	0.95
2	2.6	2.15
2	3.1	3.34
2	3.6	4.53
2	4.1	5.72
2	4.7	5.36
2	5.1	6.08
2	5.6	6.97
2	6	7.69

- Accessory
- Optional

DS-1297ZJ-ES  
Pendant Mount



DS-2272ZJ-KL  
Wall mount



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## DS-2CD6825G0/C-I(V)(S) 2 MP IR Network Camera



With -V Mode:



Without -V Mode:



- 1/2.7" Progressive Scan CMOS
- 1920 × 1080 @ 30fps
- 2 mm fixed lens
- Digital WDR
- 3D DNR
- ROI
- H.265, H.265+

A blue handwritten signature, likely of a company representative, is written over a faint circular watermark.



## Specifications

### Camera

Image Sensor	1/1.2.7" Progressive Scan CMOS
Min. Illumination	Color: 0.005 Lux @ (F1.2, AGC ON), 0.0176 Lux @ (F2.25, AGC ON) B/W: 0.001 Lux @ (F1.2, AGC ON), 0.0035 Lux @ (F2.2.5, AGC ON)
Shutter Speed	1/25 s to 1/100,000 s
Day & Night	IR Cut Filter
WDR	Digital WDR

### Lens

Focal Length	2 mm fixed lens
Aperture	F2.25
FOV	Horizontal FOV 104.5°, vertical FOV 70.5°, diagonal FOV 112°
Lens Mount	M12

### IR

IR Range	Up to 6 m IR range
Wavelength	850 nm

### Video

Max. Resolution	1920 × 1080
Main Stream	50Hz: 25fps (1920 × 1080, 1280 × 720); 60Hz: 30fps (1920 × 1080, 1280 × 720)
Sub Stream	50Hz: 25fps (704 × 576, 640 × 480) 60Hz: 30fps (704 × 480, 640 × 480)
Video Compression	Main stream: H.265+/H.265/H.264+/H.264 Sub stream: H.265/H.264/MJPEG
H.264 Type	BaseLine Profile/Main Profile/High Profile
H.264+	Main stream supports
H.265 Type	Main Profile
H.265+	Main stream supports
Video Bit Rate	32 Kbps to 16 Mbps
SVC	H.265 and H.264 support

### Audio

Audio Compression	G.711/G.722.1/G.726/MP2L2/PCM
Audio Bit Rate	64Kbps(G.711)/16Kbps(G.722.1)/16Kbps(G.726)/32-160Kbps(MP2L2)
Environment Noise Filtering	Yes
Audio Sampling Rate	8kHz/16kHz/32kHz/44.1kHz/48kHz

### Smart Feature-Set

Basic Event	Motion detection, video tampering alarm, exception (network disconnected, IP address conflict, illegal login, HDD full, HDD error)
People Counting	Counts people entering and exiting separately Supports real-time uploading and uploading by statistic cycle Sends email reports on daily, weekly, monthly or annually basis

	Supports target filtering by height
Linkage Method	Upload to FTP/NAS, notify surveillance center, send email, trigger alarm output, trigger recording, trigger capture
Region of Interest	4 fixed regions for main stream and sub-stream

### Image

Image Enhancement	HLC, BLC, 3D DNR, defog
Image Setting	Saturation, brightness, contrast, sharpness are adjustable by client software or web browser
Day/Night Switch	Day/Night/Auto/Schedule/Triggered by alarm input (-S)
Picture Overlay	LOGO picture can be overlaid on video with 128 × 128 24bit bmp format

### Network

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, SSL/TLS
API	ONVIF (PROFILE S, PROFILE G), ISAPI, SDK, Ehome (5.0)
Security	Password protection, complicated password, HTTPS encryption, 802.1X authentication (EAP-MD5), watermark, IP address filter, basic and digest authentication for HTTP/HTTPS, WSSE and digest authentication for ONVIF, RTP/RTSP over HTTPS, control timeout settings, security audit log
Simultaneous Live View	Up to 20 channels
User/Host	Up to 32 users. 3 user levels: administrator, operator and user
Client	iVMS-4200, Hik-Connect
Web Browser	IE8+, Chrome 41.0-44, Mozilla Firefox30.0-51, Safari8.0-11

### Interface

Communication Interface	1 RJ45 10M/100M Ethernet port, -S: 1 RS-485 interface (half duplex, HIKVISION, Pelco-P, Pelco-D, self-adaptive) 1 built-in mic
Audio	-S: 1 input (line in, two-core terminal block), 1 output (two-core terminal block), mono sound
Alarm (-S)	1 input, 1 output (max. 24 VDC, 1 A)
On-board storage	300 M eMMC storage for people counting data

### General

Firmware Version	5.5.90
Web Client Language	32 languages. English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian, Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian, Danish, Swedish, Norwegian, Finnish, Croatian, Slovenian, Serbian, Turkish, Korean, Traditional Chinese, Thai, Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazil)
General Function	Anti-flicker, heartbeat, mirror, password protection, watermark, IP address filter
Startup and Operating Conditions	-30 °C to +45 °C (-22 °F to +113 °F), Humidity 95% or less (non-condensing)
Storage Conditions	-30 °C to +60 °C (-22 °F to +140 °F), Humidity 95% or less (non-condensing)
Power Supply	12 VDC±20%, reverse polarity protection, Ø5.5mm coaxial power plug 12 VDC, PoE (36 to 57 VDC, 802.3af), Calss3

Power Consumption	12 VDC, 0.66 A, max. 8 W, PoE (802.3 af, 36 to 57 VDC), 0.23 A to 0.14 A, max. 8.3 W
Material	Front cover: plastic, camera body: metal
Dimensions	With -V: 168 mm × 61 mm × 41 mm (6.6" × 2.4" × 1.6" )
	Without -V: 168 mm × 61 mm × 36 mm (6.6" × 2.4" × 1.4") With Package: 235 mm × 120 mm × 125 mm (9.2" × 4.7" × 4.9")
Weight	Camera: Approx. 435 g (1 lb.)
	With package: 725 g (1.6 lb)

### Approval

EMC	47 CFR Part 15, Subpart B; EN 55032: 2015, EN 61000-3-2: 2014, EN 61000-3-3: 2013, EN 50130-4: 2011 +A1: 2014; AS/NZS CISPR 32: 2015; ICES-003: Issue 6, 2016; KN 32: 2015, KN 35: 2015
Safety	UL 60950-1, IEC 60950-1:2005 + Am 1:2009 + Am 2:2013, EN 60950-1:2005 + Am 1:2009 + Am 2:2013, IS 13252(Part 1):2010+A1:2013+A2:2015
Environment	2011/65/EU, 2012/19/EU, Regulation (EC) No 1907/2006
Protection	With -V model: IP67 (IEC 60529-2013)

### Available Model

DS-2CD6825G0/C-I (2 mm), DS-2CD6825G0/C-IS (2 mm), DS-2CD6825G0/C-IV (2 mm), DS-2CD6825G0/C-IVS (2 mm)

### ▪ Typical Application

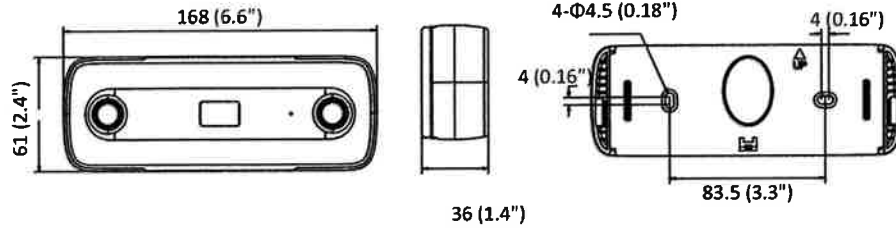
Hikvision products are classified into three levels according to their anti-corrosion performance. Refer to the following description to choose for your using environment.

This model has NO SPECIFIC PROTECTION.

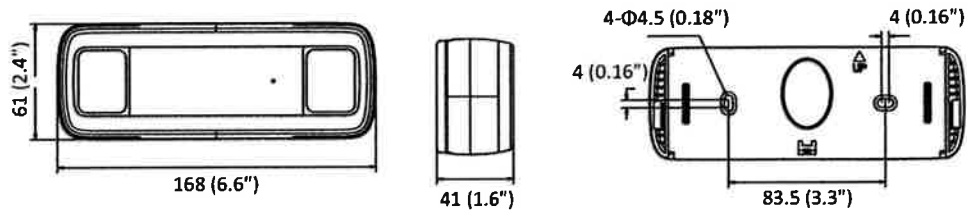
Level	Description
Top-level protection	Hikvision products at this level are equipped for use in areas where professional anti-corrosion protection is a must. Typical application scenarios include coastlines, docks, chemical plants, and more.
Moderate protection	Hikvision products at this level are equipped for use in areas with moderate anti-corrosion demands. Typical application scenarios include coastal areas about 2 kilometers (1.24 miles) away from coastlines, as well as areas affected by acid rain.
No specific protection	Hikvision products at this level are equipped for use in areas where no specific anti-corrosion protection is needed.

## Dimension

Without -V Model:



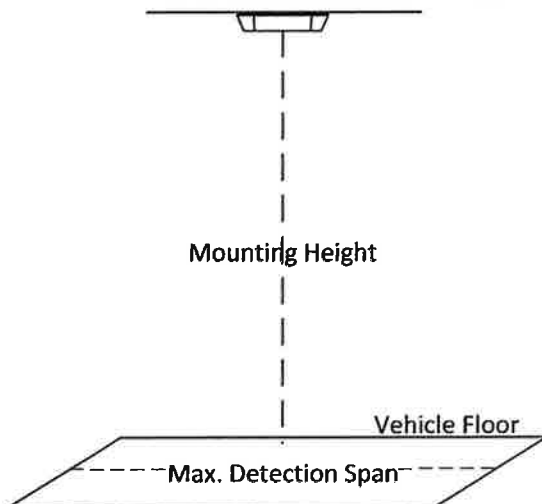
With -V Model:



## Installation Recommendation

Following table shows the relations among focal length, mounting height, and max. detection span of typical values. For detailed installation advice, please contact the technical support of HIKVISION.

Focal Length (mm)	Mounting Height (m)	Max. Detection Span (m)
2	2.1	0.95
2	2.6	2.15
2	3.1	3.34
2	3.6	4.53
2	4.1	5.72
2	4.7	5.36
2	5.1	6.08
2	5.6	6.97
2	6	7.69



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