

DS-K18FHD-DVLED Display & Control Solution

Date of Creation 2026/11/10

HIKVISION

Table of Contents

Chapter 1 Project Design 1

1.1 Video Wall Rendering 1

1.2 Vertical/Side View 2

1.3 Recommended Solution 3

1.4 System Topology 6

Chapter 2 Installation 7

2.1 Structural Dimension Diagram 7

2.2 Cable Connection 8

Chapter 1 Project Design

1.1 Video Wall Rendering



Figure 1.1.1 Video Wall Rendering

1.2 Vertical/Side View

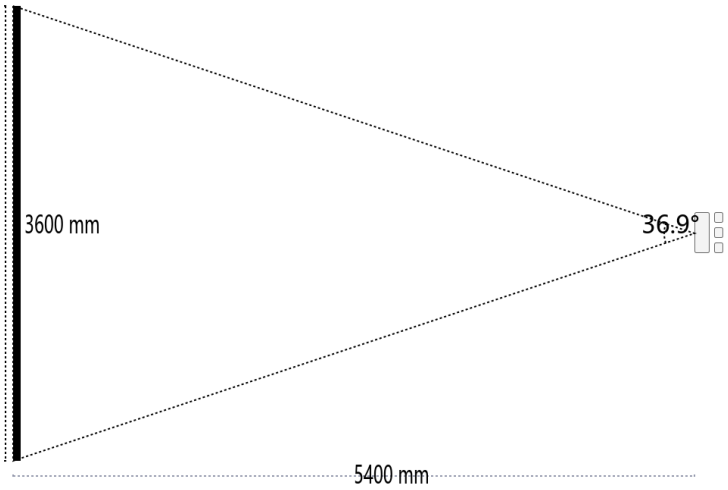


Figure 1.2.1 Side View

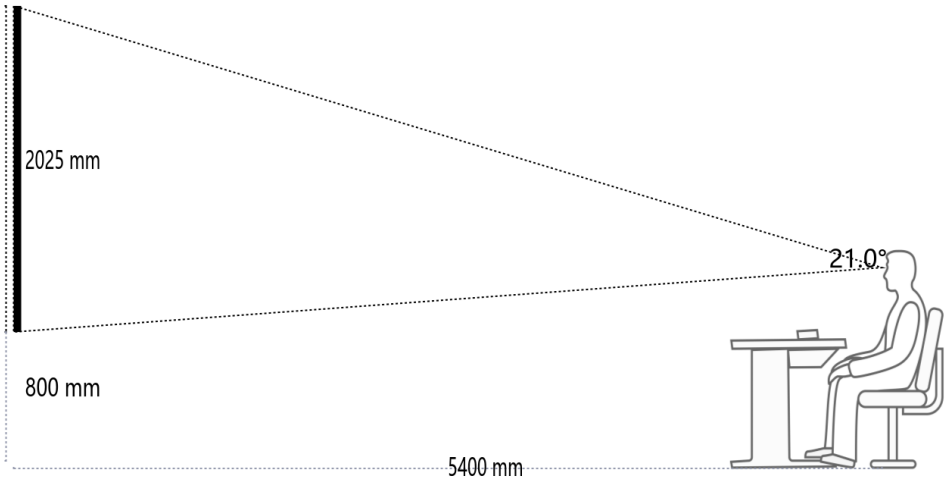


Figure 1.2.2 Vertical View

1.3 Recommended Solution

Table 1.3.1

Product Type	Model	Quantity	Unit	Technical Specs
Display				
LED Module	DS-D4018CW-2FQ/A 300*168.75mm Module 317007784	144	PCS	P1.8 GOB
Cabinet Frame	DS-D40W-2F 317006689	36	PCS	DS-D40W-2F 600*337.5mm Cabinet Structure
Video Processing System				
LED Controller	DS-DT60C-01HI04NO 336800077	1	PCS	4 Ports LED Controller
Accessory				
Front Maintenance Tool	DS-D42MF2B 317000435	1	PCS	Support the maintenance of indoor LED front maintenance products
Cross-Connecting Network Cable	DS-1NP6UEC0 307400627	5	PCS	CAT6，U/UTP，24AWG，CU
Main Power Cable	DS-D40W-2F/PC 317005385	4	PCS	DS-D40W-2F/PC(PowerCableParcel)
Main Network Cable	DS-1NP6UEC0 307400635	4	PCS	CAT6，U/UTP，24AWG，CU
Spare				
Spare LED Module	DS-D4018CW-2FQ/A 300*168.75mm Module 317007784	8	PCS	P1.8 GOB
Spare HUB Board	DS-D40W-2F/HUB 317006690	1	PCS	DS-D40W-2F/HUB 600*337.5mm Spare HUB

Table 1.3.2

Video Wall Parameters		
Video Wall Scale	Row × Column	6 × 6
	Display Quantity	144
Video Wall Dimension	Width × Height	3.6 m × 2.025 m
	Size	7.29 sq.m
	Diagonal Length	162.6"
	Resolution	1920 × 1080

Video Wall Parameters		
Load Bearing	Video Wall Weight	122.4 kg
	Bracket Weight	--
Power Consumption	Max. Power Consumption	2.916 kW
	Average Power Consumption	1.0206 kW

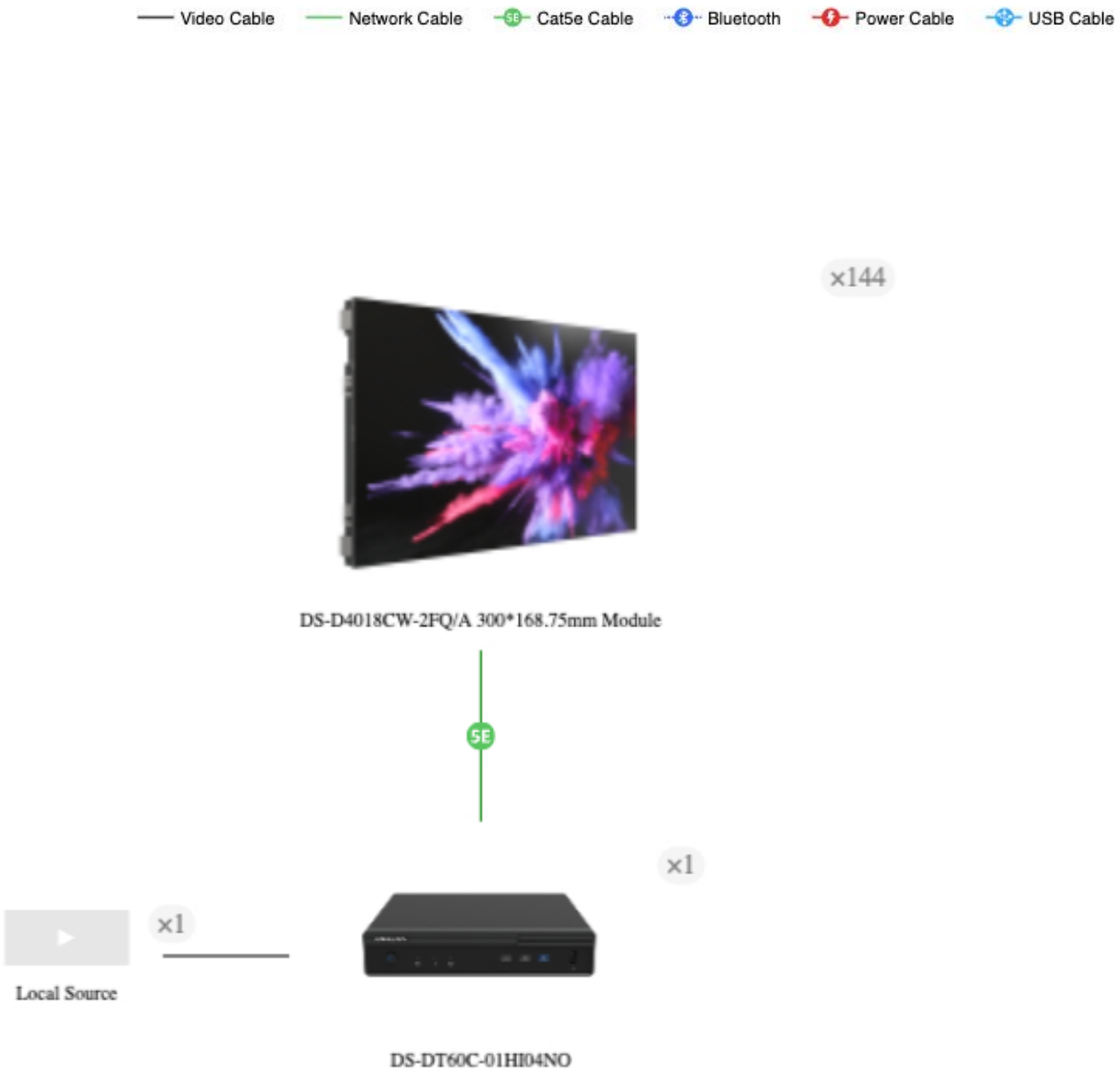
Table 1.3.3

DS-D4018CW-2FQ		
Product Model	Product Model	DS-D4018CW-2FQ
Product Type	Product Type	Small Pixel Pitch Indoor Full-color LED Display
Cabinet	Dimensions (W × H × D)	600 mm × 337.5 mm × 29.5 mm (23.622" × 13.287" × 1.161")
	Pixel Configuration	SMD Triad LED (with glue)
	Pixel Pitch Category	P1.8
	Pixel Pitch	1.875 mm
	Pixel Density	284444 dots/sq.m
	Modules Component	2 × 2
	Resolution	320 × 180
	Area	0.2025 sq.m
	Weight	3.4 kg (7.5 lb.)
	Cabinet Material	Aluminium die casting
	Maintenance Method	Front maintenance for all components
Module	Module Resolution	160 × 90

DS-D4018CW-2FQ		
Display	White Balance Brightness	600cd/sq.m
	Color Temperature	3000-10000 K adjustable
	Viewing Angle	160° (H)/160° (V)
	Contrast Ratio	5000:1
	Color Uniformity	⩽ ± 0.003Cx，Cy
	Brightness Uniformity	⩾ 97%
Processing Performance	Driving Method	Constant current driving
	Frame Frequency	60 Hz
	Refresh Rate	Up to 3840 Hz
	Grey Level	Up to 16 bit
Power	Max. Consumption	⩽ 400 W/sq.m
	Average Consumption	< 140 W/sq.m
	Input Voltage	100~240 VAC ± 10%
Working Environment	Working Temperature	10 ° C to 40 ° C (14 ° F to 104 ° F)
	Working Humidity	10% RH to60% RH (without condensation)
	Storage Temperature	-20 ℃ to 60 ℃ (-4 to 140)
	Storage Humidity	10% RH to85% RH (without condensation)
General	Product Dimension (W × H × D)	Module: 4-in-1(443X360X52 mm)，20-in-1 (471X378X266 mm)
	Packing List	Regulatory Compliance and Safety Information × 1 Connecting screws, light beads, driver IC, iron sheets
	Gross Weight	Module: 4-in-1 (1.744 kg), 20-in-1 (8.72 kg)； Structure: 1-in-1 (2.8 kg)，5-in-1 (14 kg)
	Net Weight	Module: 4-in-1 (1.224 kg), 20-in-1 (6.120 kg) Structure: 1-in-1 (2.6 kg)，5-in-1 (13 kg)
Bracket	Modular Bracket	standard bracket:DP-D40XXCB22-1X1-Q0.3-NW-Q0.3-HC 1*1;DP-D40XXCB22-2X2-Q0.8-NW-Q0.8-HC 2*2,ultra-thin bracket:DP-D40XXCB22-1X1-Q0.2-NW-Q0.2-ZF

1.4 System Topology

System Topology Picture



Chapter 2 Installation

2.1 Structural Dimension Diagram

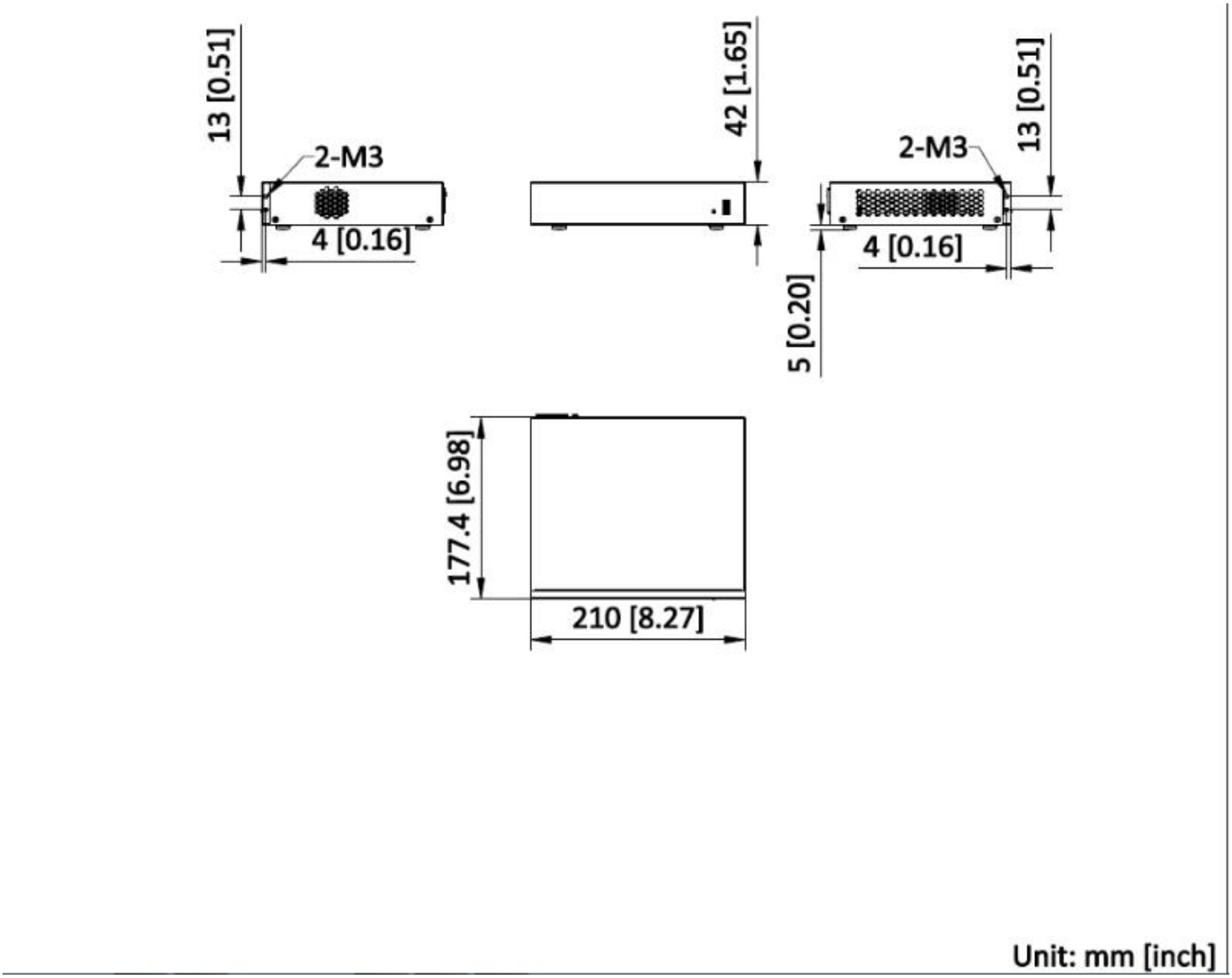
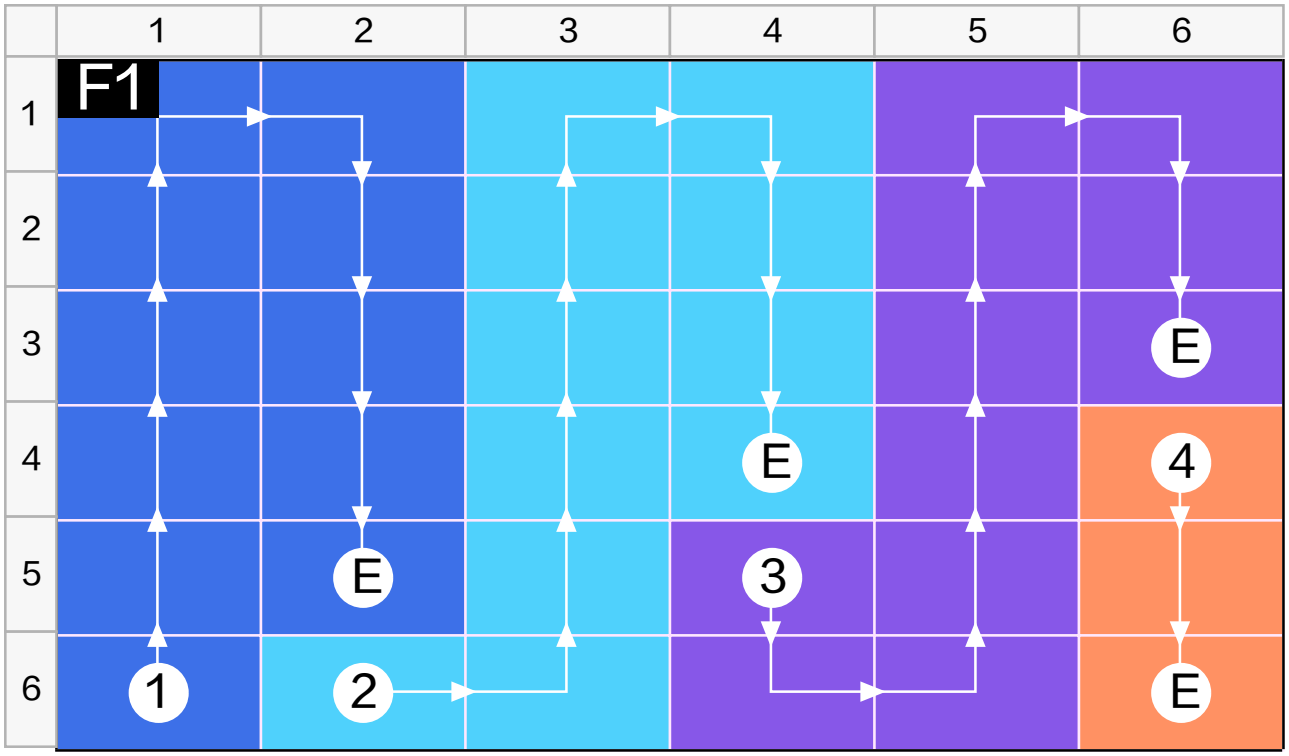


Figure 2.1.1 DS-DT60C-01HI04NO Structural Dimension Diagram

2.2 Cable Connection



DS-DT60C-01HI04NO

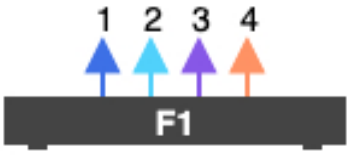


Figure 2.2.1 Display Load Capacity of Network Interface

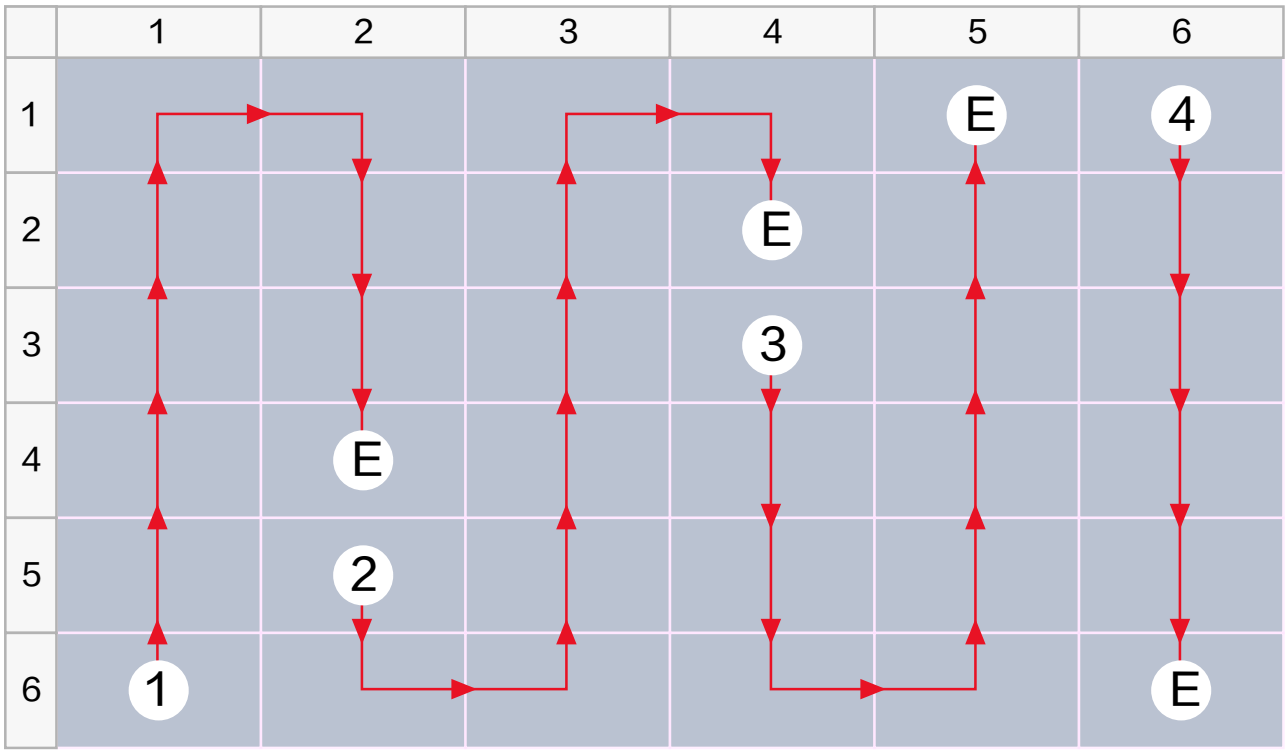


Figure 2.2.2 Display Power Cable Connection

Hikvision Headquarters
T +86-571-8807-5998
support@hikvision.com

Hikvision Australia
T +61-2-8599-4233
salesau@hikvision.com

Hikvision Azerbaijan
T +994 50 369 81 57
Azerbaijan.CATC@hikvision.com

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

Hikvision Canada
T +1-866-200-6690
sales.canada@hikvision.com

Hikvision Colombia
sales.colombia@hikvision.com

Hikvision Czech
T +420 29 6182640
info.cz@hikvision.com

Hikvision Egypt
T +20223066117
sales.eg@hikvision.com

Hikvision Europe
T +31 23 5542770
sales.eu@hikvision.com

Hikvision France
T +33(0)1 85 330 450
info.fr@hikvision.com

Hikvision Germany
sales.dach@hikvision.com

Hikvision Hong Kong , China
sales.hk@hikvision.com

Hikvision Hungary KFT
info.hu@hikvision.com

Hikvision India
T +91-22-6855 9944
sales@pramahikvision.com

Hikvision Indonesia
T +6221 2933 9366
Sales.Indonesia@hikvision.com

Hikvision Israel
T +972 79 5555590
sales.israel@hikvision.com

Hikvision Italy
T +39 0438 6902
info.it@hikvision.com

Hikvision Kazakhstan
T +7 (727) 291-75-88
support@hikvision.kz

Hikvision Kenya
wangchengbin@hikvision.com

Hikvision Korea
T +82-1661-8138
sales.korea@hikvision.com

Hikvision Malaysia
T +60327224000
sales.my@hikvision.com

Hikvision Mexico
T +52 55 2624 0110
sales.mexico@hikvision.com

Hikvision New Zealand
T 09 217 3127
salesnz@hikvision.com

Hikvision New Panama
Sales.centralamerica
@hikvision.com

Hikvision Pakistan
T +92-2135147526
support.pk@hikvision.com

Hikvision Philippines
support.ph@hikvision.com

Hikvision Poland
T +48 22 460 01 50
info.pl@hikvision.com

Hikvision Russia
T +7-495-669-67-99
saleru@hikvision.com

Hikvision Romania
marketing.ro@hikvision.com

Hikvision Singapore
T +65 6684 4718
sg@hikvision.com

Hikvision South Africa
T +27 877018113
sale.africa@hikvision.com

Hikvision Spain
T +34 91 737 16 55
info.es@hikvision.com

Hikvision Tashkent
T +99-87-1238-9438
uzb@hikvision.ru

Hikvision Thailand
sales.thailand@hikvision.com

Hikvision Turkey
T +90 216 521 70 70
support.tr@hikvision.com

Hikvision UAE
T +971-4-4432090
salesme@hikvision.com

Hikvision UK & Ireland
T +44(0)1628 902 140
info.uk@hikvision.com

Hikvision Uzbekistan
T +998-71-233-55-50
uzbekistan@hikvision.com

Hikvision USA
T +1-909-895-0400
sales.usa@hikvision.com

Hikvision Vietnam
T +84 24 7300 7586
sale.vn@hikvision.com

www.hikvision.com
support@hikvision.com