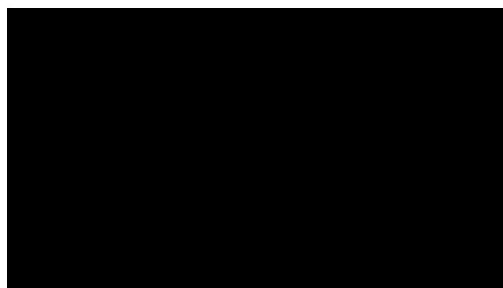


**Predmet zákazky: Modernizácia, rozširovanie a poskytovanie servisných služieb mestského
kamerového systému hlavného mesta SR Bratislavy**

OBSAH PONUKY

Číslo prílohy	Príloha
1.	Obsah
2.	Vyhlásenie o zápise do Zoznamu hospodárskych subjektov
3.	Zoznam dodávok tovaru alebo poskytnutých služieb za predchádzajúce 3 roky
4.	Referenčný list
5.	Návrh plnenia kritéria na vyhodnotenie ponúk
6.	Výkaz výmer
7.	Katalógové listy kamier
8.	Špecifikácia podmienok riešenia záručných servisných zásahov

V Bratislave, dňa 16.6.2021



Peter Novák
predseda predstavenstva NOPE a.s.

Obchodné meno uchádzača:	NOPE a.s.
Sídlo uchádzača:	Kazanská 48, 821 06 Bratislava
Štatutárny zástupca:	Peter Novák, predseda predstavenstva NOPE a.s.
IČO:	35758805
IČ DPH:	SK2020253774
Tel. číslo:	
Email:	

Návrh na plnenie kritéria

	Cena celkom za predmet zákazky v EUR bez DPH	Výška DPH	Cena celkom za predmet zákazky v EUR s DPH
návrh uchádzača	542 900,10 €	108 580,02 €	651 480,12 €

Som —Nie som platiteľom DPH (nehodiace sa preškrtnite)

V Bratislave, dňa 16.6.2021

podpis uchádzača

Peter Novák, predseda predstavenstva
NOPE a.s.

VÝKAZ KAMERY

Cenová tabuľka č. 1

P.č.	Názov	predpokladané množstvo	merná jednotka	jednotková cena bez DPH	cena bez DPH	DPH	Cena s DPH
1	Demontáž kamery	10	ks	95	950,00 €	190,00 €	1 140,00 €
2	Montáž a programovanie novej kamery s pripojením na server	50	ks	608	30 400,00 €	6 080,00 €	36 480,00 €
3	Inštalácia OR (plastová krabica s panelom do outdoor skrine)	50	ks	45	2 250,00 €	450,00 €	2 700,00 €
4	Zváranie v OR outdoor	30	ks	11	330,00 €	66,00 €	396,00 €
5	Inštalácia optického prevodníku	30	ks	55	1 650,00 €	330,00 €	1 980,00 €
6	Zatiahnutie optického kábla	3000	m	1,8	5 400,00 €	1 080,00 €	6 480,00 €
7	Inštalácia - Kruhový vodič 8 FeZn	1000	m	18	18 000,00 €	3 600,00 €	21 600,00 €
8	Inštalácia rozvodnice	30	ks	55	1 650,00 €	330,00 €	1 980,00 €
9	Inštalácia transformátora pre kameru	30	ks	75	2 250,00 €	450,00 €	2 700,00 €
10	Inštalácia PoE napájania s výstupom na optiku	30	ks	87	2 610,00 €	522,00 €	3 132,00 €
11	Zatiahnutie elektrického kábla	1000	m	1,35	1 350,00 €	270,00 €	1 620,00 €
12	Krimpovanie konektorov RJ45	30	ks	3,92	117,60 €	23,52 €	141,12 €
13	Zatiahnutie štruktúrovaného kábla	1000	m	0,88	880,00 €	176,00 €	1 056,00 €
14	Elektrická inštalácia a zapojenie	30	ks	230	6 900,00 €	1 380,00 €	8 280,00 €
15	Pripojovacie svorky jednostranné so svorkou KS	50	ks	8,2	410,00 €	82,00 €	492,00 €
16	Statický posudok na stĺp (verejného osvetlenia, trolejového vedenia)	50	ks	186	9 300,00 €	1 860,00 €	11 160,00 €
17	Východzia odborná skúška	30	ks	130	3 900,00 €	780,00 €	4 680,00 €
18	Projektová dokumentácia + inžinierska činnosť	30	ks	950	28 500,00 €	5 700,00 €	34 200,00 €
19	Ostatné poskytnuté práce pre inštaláciu kamery (paušál)	30	ks	120	3 600,00 €	720,00 €	4 320,00 €
20	Križovanie trolejového vedenia (spolupráca s DPB a.s, Vypnutie TV, práca v noci, prenájom izolovanej plošiny s osádkou)	5	h	350	1 750,00 €	350,00 €	2 100,00 €
21	Geodetické zameranie	30	súbor	450	13 500,00 €	2 700,00 €	16 200,00 €
Tabuľka č. 1 spolu					135 697,60 €	27 139,52 €	162 837,12 €

Cenová tabuľka č. 2

P.č.	Názov	množstvo	merná jednotka	jednotková cena bez DPH	cena bez DPH	DPH	Cena s DPH
1	2.1.1 IP PTZ kamera typ 1	10	ks	3531	35 310,00 €	7 062,00 €	42 372,00 €
2	2.1.2 IP PTZ kamera typ 2	10	ks	3137	31 370,00 €	6 274,00 €	37 644,00 €
3	2.1.3 IP PTZ kamera typ 3	5	ks	2794	13 970,00 €	2 794,00 €	16 764,00 €
4	2.1.4 IP pevná kamera typ 1	5	ks	1483	7 415,00 €	1 483,00 €	8 898,00 €
5	2.1.5 IP pevná kamera typ 2	5	ks	2099	10 495,00 €	2 099,00 €	12 594,00 €
6	2.1.6 IP pevná kamera typ 3	5	ks	603	3 015,00 €	603,00 €	3 618,00 €
7	2.1.7 IP pevná kamera typ 4	5	ks	735	3 675,00 €	735,00 €	4 410,00 €
8	2.1.8 IP pevná kamera typ 5	4	ks	603	2 412,00 €	482,40 €	2 894,40 €
9	2.1.9 IP pevná kamera typ 6	1	ks	603	603,00 €	120,60 €	723,60 €
10	Skriňa (napr. Schneider Sarel Thalassa PLM (530x430x200), IP66	50	ks	250	12 500,00 €	2 500,00 €	15 000,00 €
11	Optická dome spojka pre min 24 vlákien na stĺp	35	ks	210	7 350,00 €	1 470,00 €	8 820,00 €
12	Optická spojka - kazeta do zeme pre min 24 vlákien	20	ks	155	3 100,00 €	620,00 €	3 720,00 €
13	Optický rozvádzač, Outdoor prevedenie	50	ks	85	4 250,00 €	850,00 €	5 100,00 €
14	Vonkajší dome box -optická spojka pre 24 vlákien s ochranou spojov	65	ks	255	16 575,00 €	3 315,00 €	19 890,00 €
15	Ochrana zvaru, zmršťovacia	30	ks	1,9	57,00 €	11,40 €	68,40 €
16	Kazeta pre OR	30	ks	11,3	339,00 €	67,80 €	406,80 €
17	Držiak zvarov pre kazetu do OR	30	ks	5,2	156,00 €	31,20 €	187,20 €
18	Patchkabel SM SC/PC duplex 1m	30	ks	36,6	1 098,00 €	219,60 €	1 317,60 €
19	Adaptér SC/PC DUPLEX, pre OR	30	ks	6	180,00 €	36,00 €	216,00 €
20	Pigtail SC, SM, 1,5m SCPC901.5	30	ks	10,8	324,00 €	64,80 €	388,80 €

21	Optický modul LC konektorom pre single-mode komunikáciu o prenosovej rýchlosti 100 Mbps. Dosiahnutá vzdialenosť je 20 km	30	ks	38	1 140,00 €	228,00 €	1 368,00 €
22	Optický modul LC konektorom pre single-mode komunikáciu o prenosovej rýchlosti 100 Mbps. Dosiahnutá vzdialenosť je 20 km protikus	30	ks	38	1 140,00 €	228,00 €	1 368,00 €
23	Optický modul LC konektorom pre single-mode komunikáciu o prenosovej rýchlosti 1000 Mbps. Dosiahnutá vzdialenosť je 20 km	20	ks	68	1 360,00 €	272,00 €	1 632,00 €
24	Optický modul LC konektorom pre single-mode komunikáciu o prenosovej rýchlosti 1000 Mbps. Dosiahnutá vzdialenosť je 20 km -protikus	20	ks	68	1 360,00 €	272,00 €	1 632,00 €
25	Transformátor 230 VAC/24VAC	30	ks	45	1 350,00 €	270,00 €	1 620,00 €
26	PoE zdroj s výstupom na optiku SM	30	ks	125	3 750,00 €	750,00 €	4 500,00 €
27	nemenežovateľný 4portový PoE switch, 4x 10/100 Mbps Base-T + 2x 100 Mbps uplink, celkovo na všetky porty max. 60 W, ochrana pred prepätím 2 kV	10	ks	30	300,00 €	60,00 €	360,00 €
28	switch 3x 10/100 Mbps + 1x Gbit + 2x SFP Gbit, podpora PoE pre 4 porty, 4x PoE (IEEE802.3af/at), port 1-3 max. 30 W, port 4 max. 60 W, celkovo na všetky porty max. 120 W	5	ks	104	520,00 €	104,00 €	624,00 €
29	Prepätová ochrana	65	ks	18,4	1 196,00 €	239,20 €	1 435,20 €
30	Elektrický kábel CYKY 3x2,5	100	m	2,35	235,00 €	47,00 €	282,00 €
31	Elektrický kábel CMSM 3Jx1,5	100	m	2,25	225,00 €	45,00 €	270,00 €
32	Istič 6A char.B	30	ks	17	510,00 €	102,00 €	612,00 €
33	FTP cat5e indoor	50	m	1,45	72,50 €	14,50 €	87,00 €
34	FTP cat5e outdoor	100	m	2	200,00 €	40,00 €	240,00 €
35	Konektor RJ45	50	ks	0,8	40,00 €	8,00 €	48,00 €
36	Optický kábel , 24vl SM., zafukovací	500	m	1,45	725,00 €	145,00 €	870,00 €
37	Optický kábel , 16vl SM., zafukovací	500	m	1,35	675,00 €	135,00 €	810,00 €
38	Optický kábel závesný 24 vl SM samonosný	1000	m	1,45	1 450,00 €	290,00 €	1 740,00 €
39	Optický kábel závesný 16 vl SM samonosný	1000	m	1,55	1 550,00 €	310,00 €	1 860,00 €
40	Trubka ohybná PSM-E-MF	250	m	0,9	225,00 €	45,00 €	270,00 €
41	Trubka pancierová Ø 32	250	m	1,9	475,00 €	95,00 €	570,00 €
42	Držiak káblovej rezervy na stožiar	100	ks	90	9 000,00 €	1 800,00 €	10 800,00 €
43	Závesný hák samonosného kábla na stĺp	30	ks	30	900,00 €	180,00 €	1 080,00 €
44	Závesný hák samonosného kábla na budovu	30	ks	16	480,00 €	96,00 €	576,00 €
45	Podpera vedenia na ploché strechy dvojbodová - PV 21 beton/plast - 1,0kg	100	ks	50	5 000,00 €	1 000,00 €	6 000,00 €
46	Kruhový vodič 8 FeZn	1000	m	3,5	3 500,00 €	700,00 €	4 200,00 €
47	Pripojovacie svorky jednostranné so svorkou KS	50	ks	50	2 500,00 €	500,00 €	3 000,00 €
48	Trubka priem 20 UV stabilná	100	m	3,6	360,00 €	72,00 €	432,00 €
49	príchytka na stenu pre trubku UV stabilnú	100	ks	1,9	190,00 €	38,00 €	228,00 €
50	príchytka na stĺp pre trubku UV stabilnú	100	ks	2,5	250,00 €	50,00 €	300,00 €
Tabuľka č. 2 spolu					194 872,50 €	38 974,50 €	233 847,00 €

VÝKAZ VDG SENSE

Cenová tabuľka č. 3

PRÁCE							
P.č.	Názov	predpokladané množstvo	merná jednotka	jednotková cena bez DPH	cena bez DPH	DPH	cena spolu
1.	Konfigurácia Sense servera	1	ks	300,00 €	300,00 €	60,00 €	360,00 €
2.	Konfigurácia Sense pracovnej stanice	10	ks	150,00 €	1 500,00 €	300,00 €	1 800,00 €
3.	Ostatné práce	100	h	82,00 €	8 200,00 €	1 640,00 €	9 840,00 €
Tabuľka č. 3 spolu					10 000,00 €	2 000,00 €	12 000,00 €

Cenová tabuľka č. 4

VDG SENSE Hardware							
P.č.	Názov	predpokladané množstvo	merná jednotka	jednotková cena bez DPH	cena bez DPH	DPH	cena spolu
1.	Server - VDG Video server						
1.1	NVH-2608XR Video server 19", xeon, 2U, SSD, 8-port, HS RAID, RPSU (min. konfigurácii)	1	ks	5 125,00 €	5 125,00 €	1 025,00 €	6 150,00 €
1.2	NVH-2608XRD Video server 19", dual xeon, 2U, SSD, 8-port, HS RAID, RPSU	1	ks	7 026,00 €	7 026,00 €	1 405,20 €	8 431,20 €
1.5	Extra 100/1000Mbps LAN interface	4	ks	77,00 €	308,00 €	61,60 €	369,60 €
1.7	Pro video server storage 8TB Pevný disk 3,5" , 256 MB cache, 7200 ot., Interface SATA 6 GB/sInterface transfer rate 600 MB/s, prevádzka 24/7	16	ks	654,00 €	10 464,00 €	2 092,80 €	12 556,80 €
1.8	Pro video server storage 10TB Pevný disk 3,5" , 256 MB cache, 7200 ot., Interface SATA 6 GB/sInterface transfer rate 600 MB/s, prevádzka 24/7	16	ks	823,00 €	13 168,00 €	2 633,60 €	15 801,60 €
1.9	Pro video server storage 12TB Pevný disk 3,5" , 256 MB cache, 7200 ot., Interface SATA 6 GB/sInterface transfer rate 600 MB/s, prevádzka 24/7	8	ks	1 021,00 €	8 168,00 €	1 633,60 €	9 801,60 €
2.	Pracovná stanica - VDG Video client						
2.1	NVH-1001 Compact, i5, SSD, 1TB HDD (min. v konfigurácii)	2	ks	1 877,00 €	3 754,00 €	750,80 €	4 504,80 €
2.2	NVH-1101 Video client, i7, SSD (desktop/tower)	8	ks	2 235,00 €	17 880,00 €	3 576,00 €	21 456,00 €
2.5	NVH-QUAD Quad mini display port/DVI-D output	8	ks	642,00 €	5 136,00 €	1 027,20 €	6 163,20 €
3	Monitor 1 27" Full HD LED, 1920x1080, 24/7,VGA,DVI,HDMI,DP + kabel pre pripojenie k PC (min. 2 m)	16	ks	538,00 €	8 608,00 €	1 721,60 €	10 329,60 €
4	Monitor 2 55" Full HD LED, 1920x1080, 24/7,VGA,DVI,HDMI, kabel pre pripojenie k PC (min. 2 m)	6	ks	3 068,00 €	18 408,00 €	3 681,60 €	22 089,60 €
4	Monitor 3 60" Full HD LED, 1920x1080, 24/7,VGA,DVI,HDMI,DP kabel pre pripojenie k PC (min. 2 m)	6	ks	3 414,00 €	20 484,00 €	4 096,80 €	24 580,80 €
Tabuľka č. 4 spolu					118 529,00 €	23 705,80 €	142 234,80 €

VÝKAZ SERVIS

Cenová tabuľka č. 5

PRÁCE							
P.č.	Názov	predpokladané množstvo	merná jednotka	jednotková cena bez DPH	cena bez DPH	DPH	Spolu s DPH
1.	Cena za 1 hod. operatívneho servisu od 7:00 do 15:00	200	h	56,00 €	11 200,00 €	2 240,00 €	13 440,00 €
2.	Cena za 1 hod. operatívneho servisu od 15:00 do 7:00 a v sobotu	30	h	84,00 €	2 520,00 €	504,00 €	3 024,00 €
3.	Cena za 1 hod. operatívneho servisu vo sviatok a v nedeľu	30	h	126,00 €	3 780,00 €	756,00 €	4 536,00 €
4.	Servisná kontrola	100	kamera	188,00 €	18 800,00 €	3 760,00 €	22 560,00 €
5.	Odborná prehliadka a odborná skúška	50	kamera	300,00 €	15 000,00 €	3 000,00 €	18 000,00 €
6.	Prenájom montážnej plošiny výška do 12m	130	h	35,00 €	4 550,00 €	910,00 €	5 460,00 €
7.	Prenájom montážnej plošiny výška nad 12m	130	h	70,00 €	9 100,00 €	1 820,00 €	10 920,00 €
Tabuľka č. 5 spolu					64 950,00 €	12 990,00 €	77 940,00 €

VÝKAZ LOKÁLNY KAMEROVÝ SYSTÉM

Cenová tabuľka č. 6

PRÁCE							
P.č.	Názov	množstvo	merná jednotka	jednotková cena bez DPH	cena bez DPH	DPH	Spolu s DPH
1.	Pevná IP kamera s konzolou	10	ks	160,00 €	1 600,00 €	320,00 €	1 920,00 €
2.	NVR Systém	8	ks	374,00 €	2 992,00 €	598,40 €	3 590,40 €
3.	POE switch	10	ks	100,00 €	1 000,00 €	200,00 €	1 200,00 €
4.	Monitor k NVR	8	ks	538,00 €	4 304,00 €	860,80 €	5 164,80 €
5.	Kábel FTP	500	m	1,45 €	725,00 €	145,00 €	870,00 €
6.	Lišta na povrchové vedenie kabeláže 15x10mm	500	m	3,50 €	1 750,00 €	350,00 €	2 100,00 €
7.	Iný inštalačný materiál	8	súbor	50,00 €	400,00 €	80,00 €	480,00 €
8.	Práca (inštalácia, oživenie systému)	64	h	45,00 €	2 880,00 €	576,00 €	3 456,00 €
9.	Dokumentácia, zaškolenie obsluhy	8	prípad	400,00 €	3 200,00 €	640,00 €	3 840,00 €
Tabuľka č. 6 spolu					18 851,00 €	3 770,20 €	22 621,20 €

XNP-8300RW

6MP Network 30x IR PTZ with built-in wiper



Key Features

- Max. 6MP resolution
- 5~150mm(30x) optical zoom (digital 32x, total 960x zoom)
- Max. IR viewable length 200m
- Day & Night(ICR), extreme WDR, DIS(Built-in gyro sensor)
- Intelligent Analytics, Object auto tracking(Person/Vehicle), Target lock tracking
- H.264, H.265, MJPEG codec, WiseStreamII
- IP66, IK10, NEMA4X, NEMA-TS 2(2.2.8, 2.2.9)
- PTZ PLUS Design applied(Compact, Lighter, Simple cabling)

Compatible Accessories (Optional)



SBP-300WMW



SBP-156HMW



SBP-156KMW



SBP-156WMW



SBP-156CMW



SBP-156LMW



SBP-300WMW1



SBP-300PMW



SBP-300KMW



SBP-300LMW



SBP-300BW



SBP-300CMW

Video

Imaging Device	1/2.8" CMOS
Resolution	3328x1872, 3072x1728, 2592x1944, 2688x1520, 1920x1080, 1600x1200, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240
Max. Framerate	H.265/H.264: Max. 30fps/25fps(60Hz/50Hz) MJPEG: Max. 30fps/25fps(60Hz/50Hz)
Min. Illumination	Color: 0.1Lux(F1.6, 1/30sec) BW: 0Lux(IR LED On)

Lens

Focal Length (Zoom Ratio)	5~150mm(30x) zoom (digital 32x, total 960x zoom)
Max. Aperture Ratio	F1.6(Wide) - F4.56(Tele)
Angular Field of View	H: 57.42°(Wide)~2.19°(Tele) / V: 33.54°(Wide)~1.25°(Tele)
Min. Object Distance	3m(9.84ft)
Focus Control	Oneshot AF, Focus save
Lens Type	DC auto iris

Pan / Tilt / Rotate

Pan Range	360° Endless
Pan Speed	Max. 500°/sec, Manual: 0.024°/sec~250°/sec
Tilt Range	110°(-20°~90°)
Tilt Speed	Max. 350°/sec, Manual: 0.024°/sec~250°/sec
Sequence	Preset(300ea), Swing, Group(6ea), Trace, Tour, Auto Run, Schedule
Preset Accuracy	±0.1°, Pan/Tilt correction

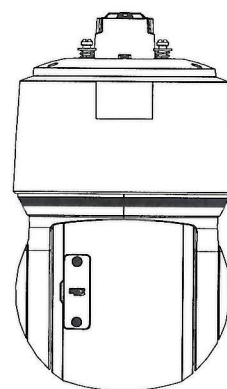
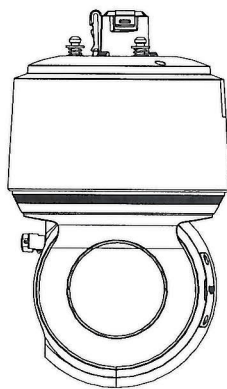
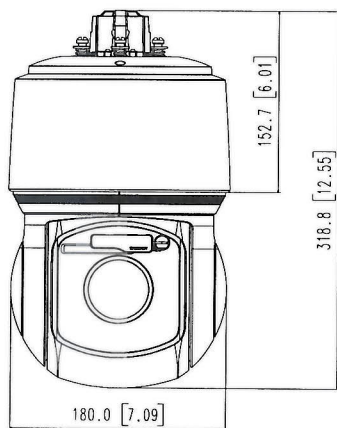
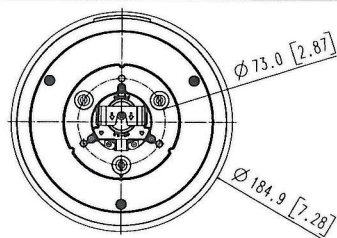
Operational

Camera Title	Displayed up to 85 characters
Direction Indicator	Support
Day & Night	Auto(ICR)/Color/BW/Schedule
Backlight Compensation	BLC, HLC, WDR, SSDR
Wide Dynamic Range	Extreme WDR(120dB)
Digital Noise Reduction	SSNR V
Digital Image Stabilization	Support(built-in gyro sensor)
Defog	Support
Motion Detection	8ea, 8point polygonal zones
Privacy Masking	32ea, rectangular Support - Color: Grey/Green/Red/Blue/Black/White - Mosaic
Gain Control	Low / Middle / High
White Balance	ATW / AWC / Manual / Indoor / Outdoor
Electronic Shutter Speed	Minimum / Maximum / Anti flicker (2~1/12,000sec)
Video Rotation	Flip, Mirror

Analytics	Directional detection, Fog detection, Face detection, Motion detection, Appear/Disappear, Enter/Exit, Loitering, Tampering, Virtual line, Shock detection * Audio detection, Sound classification(with NW I/O Box)
Alarm Triggers	Analytics, Network disconnect * Alarm input(with NW I/O Box)
Alarm Events	File upload via FTP and e-mail Notification via e-mail SD/SDHC/SDXC or NAS recording at event triggers PTZ Preset Handover * Alarm output(with NW I/O Box)
IR Viewable Length	200m(656.17ft), Wise IR
Water Removal	Support(with wiper)
Auto Tracking	Object auto tracking(Person/Vehicle), Target lock tracking
Network	
Ethernet	Metal shielded RJ-45(10/100BASE-T)
Video Compression	H.265/H.264: Main/Baseline/High, MJPEG
Smart Codec	Manual(5ea area), WiseStream II
Bitrate Control	H.264/H.265: CBR or VBR MJPEG: VBR
Streaming	Unicast(20 users) / Multicast (128 user) Multiple streaming(Up to 10 profiles)
Protocol	IPv4, IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, PIM-SM, UPnP, Bonjour, LLDP, SRTP
Security	HTTPS(SSL) Login Authentication Digest Login Authentication IP Address Filtering User access log 802.1X Authentication(EAP-TLS, EAP-LEAP) Device certificate(Hanwha Techwin Root CA) Cyber security assurance program UL CAP(UL 2900-1)
Application Programming Interface	ONVIF Profile S/G/T SUNAPI(HTTP API) Wisenet open platform
General	
Webpage Language	English, Korean, Chinese, French, Italian, Spanish, German, Japanese, Russian, Swedish, Portuguese, Czech, Polish, Turkish, Dutch, Hungarian, Greek
Edge Storage	Micro SD/SDHC/SDXC 2slot 1TB
Memory	4GB RAM, 512MB Flash
Environmental & Electrical	
Operating Temperature / Humidity	-40°C~+60°C(-40°F ~ +140°F) / Less than 95% RH(Non-condensing) Maximum Temperature based on NEMA-TS 2(2.2.7) : +74°C(+165°F)
Storage Temperature / Humidity	-50°C~+60°C (-58°F~+140°F) / Less than 95% RH(Non-condensing)
Certification	IP66, IK10, NEMA4X, NEMA-TS 2(2.2.8, 2.2.9)
Input Voltage	HPoE(IEEE802.3bt, Class6, Type3, Injector included)

Power Consumption	Typical 20W, Max 42W
Mechanical	
Color / Material	White, Black / Aluminum+Polycarbonate
RAL Code	White: RAL9003 / Black: RAL9005
Product Dimensions / Weight	Ø184.9x318.8mm(7.28x12.55") / 5.4Kg(11.90lb)
DORI (EN62676-4 standard)	
Detect (25PPM/ 8PPF)	Wide: 121.5m(398.7ft) / Tele: 3482.3m(11424.9ft)
Observe (63PPM/ 19PPF)	Wide: 48.6m(159.5ft)/ Tele: 1392.9m(4570.0ft)
Recognize (125PPM/ 38PPF)	Wide: 24.3m(79.7ft)/ Tele: 696.5m(2285.0ft)
Identify (250PPM/ 76PPF)	Wide: 12.2m(39.9ft) / Tele: 348.2m(1142.5ft)

- The latest product information / specification can be found at hanwha-security.com
- Design and specifications are subject to change without notice.
- Wisenet is the proprietary brand of Hanwha Techwin, formerly known as Samsung Techwin.



3	XNP-6400RW	
2	XNP-8300RW	
1	XNP-9300RW	'20.05.20
No.	MODEL NAME	DATE
Unit:mm[inch] SCALE:1/1		Hanwha Techwin

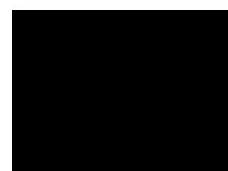
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AXIS Q6135-LE PTZ Network Camera

High-speed PTZ with long-range optimizedIR

AXIS Q6135-LE offers HDTV 1080p with 32x optical zoom. It features OptimizedIR up to 250 m (820 ft) or more depending on the scene and Lightfinder 2.0 for clear, sharp images even in challenging light. Sharpdome technology allows you to see 20° above the horizon with the same sharp image quality as below. It includes orientation aid and autotracking 2 with click and track functionality. Privacy masking with mosaic lets you pixelate whole areas of the scene. It includes enhanced security features such as signed firmware, secure boot and TPM module. Plus, Axis Zipstream with support for H.264 and H.265.

- > **HDTV 1080p with 32x optical zoom**
- > **OptimizedIR (250 m/820 ft range)**
- > **Lightfinder 2.0**
- > **Autotracking 2 and orientation aid**
- > **TPM, FIPS 140-2 level 2 certified**



AXIS Q6135-LE PTZ Network Camera

Models	AXIS Q6135-LE 50 Hz AXIS Q6135-LE 60 Hz	Video: live stream open, day/night mode
Camera		Event actions
Image sensor	1/2.8" Progressive scan CMOS	Record video: SD card and network share Pre- and post-alarm video or image buffering for recording or upload Upload of images or video clips: FTP, SFTP, HTTP, HTTPS, network share, and email Notification: email, HTTP, HTTPS, TCP, and SNMP trap PTZ: PTZ preset, guard tour Overlay text, day/night mode WDR mode IR illumination
Lens	Varifocal, 4.3–137.6 mm, F1.4 – 4.0 Horizontal field of view: 58.3°–2.4° Vertical field of view: 34.9°–1.3° Autofocus, auto-iris	Data streaming
Day and night	Automatically removable infrared-cut filter	Event data
Minimum illumination	Color: 0.06 lux at 30 IRE F1.4 B/W: 0.008 lux at 30 IRE F1.4, 0 lux with IR illumination on Color: 0.09 lux at 50 IRE F1.4 B/W: 0.01 lux at 50 IRE F1.4, 0 lux with IR illumination on	Built-in installation aids
Shutter speed	1/66500 s to 2s	Pixel counter, leveling guide
Pan/Tilt/Zoom	Pan: 360° endless, 0.05°–700°/s Tilt: +20 to –90°, 0.05°–500°/s Zoom: 32x optical, 12x digital, total 384x zoom Nadir flip, 256 preset positions, tour recording (max 10, max duration 16 minutes each), guard tour (max 100), control queue, on-screen directional indicator, orientation aid PTZ, set new pan 0°, adjustable zoom speed, speed dry	Analytics
Video		Compute capabilities
Video compression	H.264 (MPEG-4 Part 10/AVC) Baseline, Main and High Profiles H.265 (MPEG-H Part 2/HEVC) Main Profile Motion JPEG	Machine learning processing unit (MLPU)
Resolution	1920x1080p (HDTV 1080p) to 320x180	AXIS Object Analytics
Frame rate	Up to 50/60 fps (50/60 Hz) in 1080p	Object classes: humans, vehicles Trigger conditions: line crossing, object in area Up to 10 scenarios Metadata visualized with color-coded bounding boxes Polygon include/exclude areas Perspective configuration ONVIF Motion Alarm event
Video streaming	Multiple, individually configurable streams in H.264, H.265 and Motion JPEG Axis Zipstream technology in H.264 and H.265 Controllable frame rate and bandwidth VBR/ABR/MBR H.264/H.265	Applications
Image settings	Compression, saturation, brightness, sharpness, contrast, local contrast, white balance, exposure control, exposure zones, Forensic WDR: Up to 120 dB depending on scene, defogging, day/night shift level, tone mapping, fine tuning of low-light behavior, rotation: 0°, 180°, text and image overlay, image freeze on PTZ, electronic image stabilization (EIS), scene profiles, 32 individual polygon privacy masks	Included AXIS Object Analytics AXIS Fence Guard, AXIS Motion Guard, AXIS Loitering Guard AXIS Video Motion Detection, Autotracking 2, Active Gatekeeper Support for AXIS Camera Application Platform enabling installation of third-party applications, see axis.com/acap
Audio		General
Audio input/output	Two-way audio connectivity via optional AXIS T61 Audio and I/O Interfaces with portcast technology	Casing
Network		IK08, IK10 housing and mounting ^b , IP66- and NEMA 4X-rated Repaintable metal casing (aluminum), hard coated Polycarbonate (PC) clear dome with Sharpdome technology
Security	Password protection, IP address filtering, HTTPS ^a encryption, IEEE 802.1x (EAP-TLS) ^a network access control, Digest authentication, User access log, Centralized Certificate Management, Brute force delay protection, signed firmware, secure boot, protection of cryptographic keys with FIPS 140-2 certified TPM 2.0 module	Sustainability
Supported protocols	IPv4, IPv6 USGv6, HTTP, HTTPS ^a , HTTP/2, SSL/TLS ^a , QoS Layer 3 DiffServ, FTP, CIFS/SMB, SMTP, Bonjour, UPnP TM , SNMP v1/v2c/v3 (MIB-II), DNS, DynDNS, NTP, RTSP, RTP, SRTP, SFTP, TCP, UDP, IGMP, RTCP, ICMP, DHCPv4/v6, ARP, SOCKS, SSH, NTCIP, LLDP, MQTT v3.1.1, Syslog	Memory
System integration		1024 MB RAM, 512 MB Flash
Application Programming Interface	Open API for software integration, including VAPIX [®] and AXIS Camera Application Platform; specifications at axis.com One-Click Cloud Connection ONVIF [®] Profile G, ONVIF [®] Profile S, and ONVIF [®] Profile T, specification at onvif.org	Power
Event conditions	Analytics Device status: above operating temperature, above or below operating temperature, below operating temperature, fan failure, IP address removed, network lost, new IP address, shock detected, storage failure, system ready, within operating temperature Edge storage: recording ongoing, storage disruption I/O: manual trigger, virtual input PTZ: PTZ malfunctioning, PTZ movement, PTZ preset position reached, PTZ ready, PTZ autotracking Scheduled and recurring: scheduled event	Axis High PoE midspan 1-port: 100–240 V AC, max 74 W Camera consumption: typical 13.5 W (no IR), max 51 W Axis PoE+ midspan 1-port: 100–240 V AC, max 37 W IEEE 802.3at Type 2 Class 4 Camera consumption: typical 13.5 W, max 25 W
		Connectors
		RJ45 10BASE-T/100BASE-TX PoE RJ45 Push-pull Connector (IP66) Audio and I/O connectivity via AXIS T61 Audio and I/O Interfaces with portcast technology
		IR illumination
		Optimized IR with power-efficient, long life 850 nm IR LEDs With 30 W midspan: Range of reach 190 m (623 ft) or more depending on the scene With 60 W midspan: Range of reach 250 m (820 ft) or more depending on the scene
		Storage
		Support for microSD/microSDHC/microSDXC card Support for SD card encryption Support for recording to network-attached storage (NAS) For SD card and NAS recommendations see axis.com
		Operating conditions
		With 30 W midspan: –30 °C to 50 °C (–22 °F to 122 °F) With 60 W midspan: –50 °C to 50 °C (–58 °F to 122 °F) Maximum temperature according to NEMA TS 2 (2.2.7): 74 °C (165 °F) Arctic Temperature Control: Start-up as low as –40 °C (–40 °F) Humidity 10–100% RH (condensing)
		Storage conditions
		–40 °C to 70 °C (–40 °F to 158 °F) Humidity 5–95% RH (non-condensing)
		Approvals
		EMC EN 55032 Class A, EN 55035, EN 55024, EN 50121-4, IEC 62236-4, EN 61000-3-2, EN 61000-3-3, EN 61000-6-1, EN 61000-6-2, FCC Part 15 Subpart B Class A, ICES-3(A)/NMB-3(A), VCCI Class A, RCM AS/NZSCISPR32 Class A KC KN32 Class A, KN35 Safety IEC/EN/UL 62368-1, IEC/EN/UL 60950-22, IEC/EN 62471 risk group 2, IS13252

Environment
 IEC/EN 62262 IK08, IEC/EN 60529 IP66, NEMA 250, Type 4X,
 NEMA TS 2 (2.2.7–2.2.9), IEC 60068-2-1, IEC 60068-2-2,
 IEC 60068-2-6, IEC 60068-2-14, IEC 60068-2-27,
 IEC 60068-2-30, IEC 60068-2-78, ISO4892-2

Network
 NIST SP500-267
 For midspan approvals, see:
axis.com/products/axis-t8154-60-w-sfp-midspan

Dimensions	Height: 241 mm (9.5 in) ø 165 mm (6.4 in)
Weight	3 kg (6.6 lb)
Included accessories	IP66-rated RJ45 connector kit, AXIS High PoE 60 W SFP Midspan, installation guide, Windows decoder 1-user licence
Optional accessories	AXIS T91/T94 Mounting Accessories, Axis High PoE midspans For more accessories, see axis.com

Video management software	AXIS Companion, AXIS Camera Station, video management software from Axis' Application Development Partners available on www.axis.com/vms
Languages	English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Traditional Chinese
Warranty	5-year warranty, see axis.com/warranty

- a. *This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (openssl.org), and cryptographic software written by Eric Young (eay@cryptsoft.com).*
 b. *Mounting not included*

Environmental responsibility:
axis.com/environmental-responsibility

AXIS Q6075-E PTZ Network Camera

Outdoor-ready PTZ with HDTV 1080p and 40x optical zoom

AXIS Q6075-E PTZ Network Camera offers HDTV 1080p and 40x optical zoom for great overviews and excellent details. This high-performance outdoor PTZ camera comes with autotracking 2 with click and track functionality, as well as an orientation aid for active object tracking and quick orientation. With Axis Lightfinder 2.0 the camera delivers low-light images with more saturated colors and sharper images of moving objects. Plus, enhanced security features such as signed firmware and secure boot ensures the integrity and authenticity of the firmware. Furthermore, Axis Zipstream with H.264/ H.265 significantly lowers bandwidth and storage requirements.

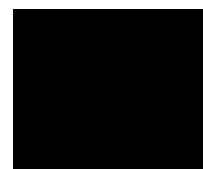
> **HDTV 1080p with 40x optical zoom**

> **Axis Lightfinder 2.0**

> **Autotracking 2 and orientation aid**

> **Built-in analytics**

> **TPM, FIPS 140-2 level 2 certified**



AXIS Q6075-E PTZ Network Camera

Models	AXIS Q6075-E 50 Hz AXIS Q6075-E 60 Hz	File upload via FTP, SFTP, HTTP, HTTPS network share and email Notification via email, HTTP, HTTPS and TCP
Camera		
Image sensor	1/2.8" progressive scan CMOS	
Lens	4.25–170 mm, F1.6–4.95 Horizontal field of view: 65.1°–2.00° (1080p) Vertical field of view: 39.1°–1.18° (1080p) Autofocus, auto-iris	
Day and night	Automatically removable infrared-cut filter	
Minimum illumination	Color: 0.1 lux at 30 IRE, F1.6 B/W: 0.002 lux at 30 IRE, F1.6 Color: 0.15 lux at 50 IRE, F1.6 B/W: 0.003 lux at 50 IRE, F1.6	
Shutter speed	1/11000 s to 1/3 s with 50 Hz 1/11000 s to 1/3 s with 60 Hz	
Pan/Tilt/Zoom	Pan: 360° endless, 0.05°–450°/s Tilt: 220°, 0.05°–450°/s Zoom: 40x optical, 12x digital, total 480x zoom E-flip, 256 preset positions, tour recording (max 10, max duration 16 minutes each), guard tour (max 100), control queue, on-screen directional indicator, orientation aid PTZ, set new pan 0°, adjustable zoom speed, focus recall	
Video		
Video compression	H.264 (MPEG-4 Part 10/AVC) Baseline, Main and High Profiles H.265 (MPEG-H Part 2/HEVC) Main Profile Motion JPEG	
Resolution	HDTV 1080p 1920x1080 to 320x180	
Frame rate	Up to 50/60 fps (50/60 Hz) in HDTV 1080p	
Video streaming	Multiple, individually configurable streams in H.264, H.265 and Motion JPEG Axis Zipstream technology in H.264 and H.265 Controllable frame rate and bandwidth VBR/ABR/MBR H.264/H.265	
Image settings	Manual shutter time, compression, color, brightness, sharpness, white balance, exposure control, exposure zones, fine tuning of behavior at low light, rotation: 0°, 180°, text and image overlay, polygon privacy masks, electronic image stabilization (EIS), freeze on PTZ, automatic defog, backlight compensation, scene profiles Wide Dynamic Range (WDR): Up to 120 dB depending on scene, highlight compensation	
Network		
Security	Password protection, IP address filtering, HTTPS ^a encryption, IEEE 802.1x (EAP-TLS) ^a network access control, digest authentication, user access log, centralized certificate management, brute force delay protection, signed firmware, secure boot, protection of cryptographic keys with FIPS 140-2 certified TPM 2.0 module	
Supported protocols	IPv4, IPv6 USGv6, HTTP, HTTP/2, HTTPS ^a , SSL/TLS ^a , QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, Bonjour, UPnP [®] , SNMP v1/v2c/v3 (MIB-II), DNS, DynDNS, NTP, RTSP, RTP, SRTP, TCP, UDP, IGMPv1/v2/v3, RTCP, ICMP, DHCPv4/v6, ARP, SOCKS, SSH, NTCIP, LLDP, MQTT v3.1.1, Syslog	
System integration		
Application Programming Interface	Open API for software integration, including VAPIX [®] and AXIS Camera Application Platform; specifications at axis.com One-click cloud connection ONVIF [®] Profile G, ONVIF [®] Profile S and ONVIF [®] Profile T, specification at onvif.org	
Event conditions	Device status: above operating temperature, above or below operating temperature, below operating temperature, fan failure, IP address removed, network lost, new IP address, shock detected, storage failure, system ready, within operating temperature Edge storage: recording ongoing, storage disruption I/O: manual trigger, virtual input PTZ: PTZ malfunctioning, PTZ movement, PTZ preset position reached, PTZ ready Scheduled and recurring: scheduled event Video: live stream open	
Event actions	Day/night mode, overlay text, video recording to edge storage, pre- and post-alarm video buffering, send SNMP trap PTZ: PTZ preset, start/stop guard tour	
Data streaming	Event data	
Built-in installation aids	Pixel counter, leveling guide	
Analytics		
Compute capabilities	Machine learning processing unit (MLPU)	
AXIS Object Analytics	Object classes: humans, vehicles Trigger conditions: line crossing, object in area Up to 10 scenarios Metadata visualized with color-coded bounding boxes Polygon include/exclude areas Perspective configuration ONVIF Motion Alarm event	
Applications	Included AXIS Object Analytics AXIS Motion Guard, AXIS Fence Guard, AXIS Loitering Guard AXIS Video Motion Detection, autotracking 2, active gatekeeper Basic analytics (not to be compared with third-party analytics): object removed, enter/exit detector, object counter Support for AXIS Camera Application Platform enabling installation of third-party applications, see axis.com/acap	
General		
Casing	IP66-, IP67-, NEMA 4X- and IK10-rated Metal casing (aluminum), polycarbonate (PC) clear dome, sunshield (ASA)	
Sustainability	PVC free	
Memory	1024 MB RAM, 512 MB Flash	
Power	Axis High PoE 60 W SFP midspan: 100–240 V AC, max 66.1 W Camera consumption: typical 14 W, max 51 W	
Connectors	RJ45 10BASE-T/100BASE-TX PoE, RJ45 Push-pull Connector (IP66/IP67) included	
Storage	Support for SD/SDHC/SDXC card Support for SD card encryption (AES-XTS-Plain64 256bit) Support for recording to network-attached storage (NAS) For SD card and NAS recommendations see axis.com	
Operating conditions	With 30 W: -20 °C to 50 °C (-4 °F to 122 °F) With 60 W: -50 °C to 50 °C (-58 °F to 122 °F) Maximum temperature according to NEMA TS 2 (2.2.7): 74 °C (165 °F) Arctic Temperature Control: Start-up as low as -40 °C (-40 °F) Humidity 10–100% RH (condensing)	
Storage conditions	-40 °C to 65 °C (-40 °F to 149 °F)	
Approvals	EMC EN 55032 Class A, EN 55035, EN 61000-3-2, EN 61000-3-3, EN 61000-6-1, EN 61000-6-2, EN 55024, FCC Part 15 Subpart B Class A, ICES-003 Class A, VCCI Class A, RCM AS/NZS CISPR 32 Class A, KCC KN32 Class A, KN35 EN 50121-4, IEC 62236-4 Safety IEC/EN/UL 60950-1, IS 13252 IEC/EN/UL 60950-22, IEC/EN/UL 62368-1 Environment IEC/EN 60529 IP66/IP67, NEMA TS 2 (2.2.7-2.2.9), IEC 62262 IK10, ISO 4892-2, EN 50121-4, IEC 62236-4, IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-6, IEC 60068-2-14, IEC 60068-2-27, IEC 60068-2-60, IEC 60068-2-78, NEMA 250 Type 4X Network NIST SP500-267 Midspan: EN 60950-1, GS, UL, cUL, CE, FCC, VCCI, CB, KCC, UL-AR	
Weight	3.75 kg (8.3 lb)	
Dimensions	Ø232 x 269 mm (Ø9 1/8 x 10.6 in)	
Included accessories	Axis High PoE 60 W SFP midspan 1-port, RJ45 Push-pull Connector (IP66), Sunshield Installation Guide, Windows decoder 1-user license	

Optional accessories	Smoked dome cover AXIS T91 Mounting Accessories, AXIS T8415 Wireless Installation Tool, AXIS T90 Illuminators, AXIS T8310 Video Surveillance Control Board, multi-user decoder license pack
Video management software	AXIS Companion, AXIS Camera Station, Video management software from Axis' Application Development Partners available on www.axis.com/vms
Languages	English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Traditional Chinese
Warranty	5-year warranty, see axis.com/warranty

- a. *This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (openssl.org), and cryptographic software written by Eric Young (eay@cryptsoft.com).*

Environmental responsibility:

axis.com/environmental-responsibility

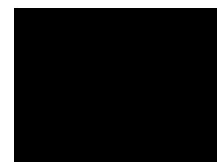
2.1.4 IP perra kamera typ 1
2.1.6 IP perra kamera typ 3
2.1.8 IP perra kamera typ 5
2.1.9 IP perra kamera typ 6

AXIS P1455-LE Network Camera

Versatile, feature-rich 2 MP surveillance

AXIS P1455-LE offers excellent image quality in HDTV 1080p at up to 60 fps. Featuring Axis Lightfinder 2.0 and Axis Forensic WDR it delivers true colors and great detail in challenging light or near darkness. AXIS Object Analytics lets you detect and classify humans and vehicles. And, with edge-to-edge technology, it offers smart pairing functionality including two-way audio with Axis Network Speakers. Motion-adaptive exposure significantly reduces the motion blur from approaching or nearby objects, and OptimizedIR enables surveillance in pitch darkness. Furthermore, Axis Edge Vault protects your Axis device ID and simplifies authorization of Axis products on your network.

- > **Lightfinder 2.0 and Forensic WDR**
- > **OptimizedIR up to 40 m (131 ft)**
- > **AXIS Object Analytics**
- > **Enhanced security features**
- > **Zipstream with support for H.264/H.265**



AXIS P1455-LE Network Camera

Camera

Image sensor	1/2.8" progressive scan RGB CMOS
Lens	Varifocal, 3–9 mm, F1.6 Horizontal field of view 114°–37° Vertical field of view 58°–21° Varifocal, Remote focus and zoom, P-Iris control, IR corrected
Day and night	Automatically removable infrared-cut filter
Minimum illumination	Color: 0.07 lux, at 50 IRE F1.6 B/W: 0.01 lux, at 50 IRE F1.6 0 lux with IR illumination on
Shutter speed	1/66500 s to 2 s

Video

Video compression	H.264 (MPEG-4 Part 10/AVC) Baseline, Main and High Profiles H.265 (MPEG-H Part 2/HEVC) Main Profile Motion JPEG
Resolution	1920x1080 to 160x90
Frame rate	With Forensic WDR: Up to 25/30 fps (50/60 Hz) in all resolutions No WDR: Up to 50/60 fps (50/60 Hz) in all resolutions
Video streaming	Multiple, individually configurable streams in H.264, H.265 and Motion JPEG Axis Zipstream technology in H.264 and H.265 Controllable frame rate and bandwidth VBR/ABR/MBR H.264/H.265 Video streaming indicator
Multi-view streaming	Up to 8 individually cropped out view areas
Image settings	Saturation, contrast, brightness, sharpness, Forensic WDR: Up to 120 dB depending on scene, white balance, day/night threshold, exposure mode, exposure zones, defogging, compression, orientation: auto, 0°, 90°, 180°, 270° including Corridor Format, mirroring of images, dynamic text and image overlay, privacy masks, motion-adaptive exposure Scene profiles: forensic, traffic overview
Pan/Tilt/Zoom	Digital PTZ, digital zoom

Audio

Audio streaming	Audio in, simplex, two-way audio via edge-to-edge technology
Audio encoding	24bit LPCM, AAC-LC 8/16/32/48 kHz, G.711 PCM 8 kHz, G.726 ADPCM 8 kHz, Opus 8/16/48 kHz Configurable bit rate
Audio input/output	External microphone input or line input, network speaker pairing

Network

Security	Password protection, IP address filtering, HTTPS ^a encryption, IEEE 802.1X (EAP-TLS) ^a network access control, digest authentication, user access log, centralized certificate management, brute force delay protection, signed firmware, secure boot, Axis Edge Vault with Axis device ID
Supported protocols	IPv4, IPv6, USGv6, HTTP, HTTPS ^a , HTTP/2, SSL/TLS ^a , QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, Bonjour, UPnP [®] , SNMP v1/v2c/v3 (MIB-II), DNS, DynDNS, NTP, RTSP, RTP, SRTP, TCP, UDP, IGMPv1/v2/v3, RTPC, ICMP, DHCPv4/v6, ARP, SOCKS, SSH, LLDP, MQTT v3.1.1, Syslog

System integration

Application Programming Interface	Open API for software integration, including VAPIX [®] and AXIS Camera Application Platform; specifications at axis.com One-click cloud connection ONVIF [®] Profile G, ONVIF [®] Profile S and ONVIF [®] Profile T, specification at onvif.org
Onscreen controls	Day/night shift Defogging Wide dynamic range Video streaming indicator IR illumination
Event conditions	Analytics Detectors: live stream accessed, video motion detection, audio detection, day/night mode, shock detection, tampering Hardware: network, temperature Input Signal: digital input port, manual trigger, virtual inputs

Storage: disruption, recording

System: system ready

Time: recurrence, use schedule

Event actions	Record video: SD card and network share Upload of images or video clips: FTP, SFTP, HTTP, HTTPS, network share and email Pre- and post-alarm video or image buffering for recording or upload Notification: email, HTTP, HTTPS, TCP and SNMP trap PTZ: PTZ preset, start/stop guard tour Overlay text, external output activation, day/night mode
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Data streaming	Event data
Built-in installation aids	Pixel counter, remote zoom (3x optical), remote focus, auto rotation

Analytics

Compute capabilities	Machine learning processing unit (MLPU)
AXIS Object Analytics	Object classes: humans, vehicles Trigger conditions: line crossing, object in area Up to 10 scenarios Metadata visualized with color-coded bounding boxes Polygon include/exclude areas Perspective configuration ONVIF Motion Alarm event

Applications	Included AXIS Object Analytics AXIS Motion Guard, AXIS Fence Guard, AXIS Loitering Guard AXIS Video Motion Detection, active tampering, shock detection Supported AXIS Perimeter Defender Support for AXIS Camera Application Platform enabling installation of third-party applications, see axis.com/acap
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General

Casing	IP66/IP67-, NEMA 4X-, and IK10-rated casing Polycarbonate blend and aluminium Color: white NCS S 1002-B
Sustainability	PVC free
Memory	1024 MB RAM, 512 MB Flash
Power	Power over Ethernet IEEE 802.3af/802.3at Type 1 Class 3 Typical: 7.7 W, max 12.95 W
Connectors	Shielded RJ45 10BASE-T/100BASE-TX/1000BASE-T 3.5 mm mic/line in Terminal block for 1 alarm input and 1 output (12 V DC output, max. load 25 mA)
IR illumination	Optimized IR with power-efficient, long-life 850 nm IR LEDs Range of reach 40 m (131 ft) or more depending on the scene
Storage	Support for microSD/microSDHC/microSDXC card Support for SD card encryption (AES-XTS-Plain64 256bit) Recording to network-attached storage (NAS) For SD card and NAS recommendations see axis.com
Operating conditions	–40 °C to 60 °C (–40 °F to 140 °F) Maximum temperature according to NEMA TS2 (2.2.7): 74 °C (165 °F) Start-up temperature: –30 °C Humidity 10–100% RH (condensing)
Storage conditions	–40 °C to 65 °C (–40 °F to 149 °F) Humidity 5–95% RH (non-condensing)
Approvals	EMC EN 55032 Class A, EN 50121-4, IEC 62236-4, EN 55035, EN 61000-3-3, EN 61000-6-1, EN 61000-6-2, FCC Part 15 Subpart B Class A, ICES-3(A)/NMB-3(A), VCCI Class A, RCM AS/NZS CISPR 32 Class A Safety IEC/EN/UL 62368-1, IEC/EN/UL 60950-22, IS 13252, IEC 62471 Environment IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-6, IEC 60068-2-14, IEC 60068-2-27, IEC 60068-2-78, IEC/EN 60529 IP66/IP67, IEC/EN 62262 IK10, NEMA 250 Type 4X, NEMA TS 2 (2.2.7–2.2.9) Network

	NIST SP500-267
Weight	With weather shield: 1 kg (2.2 lb)
Dimensions	Ø132 x 260 mm (Ø5 3/16 x 10 1/4 in)
Included accessories	Installation guide, Windows® decoder 1-user license, drill hole template, connector kit, mounting bracket, Torx® L-keys AXIS Weather Shield L
Optional accessories	AXIS T94F01M J-Box/Gang Box Plate, AXIS T91A47 Pole Mount, AXIS T94P01B Corner Bracket, AXIS T94F01P Conduit Back Box, AXIS Weather Shield K, Axis PoE Midspans For more accessories, see axis.com

Video management software	AXIS Companion, AXIS Camera Station, video management software from Axis' Application Development Partners available at axis.com/vms
Languages	English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Traditional Chinese
Warranty	5-year warranty, see axis.com/warranty

- a. This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (openssl.org), and cryptographic software written by Eric Young (ey@cryptsoft.com).

Environmental responsibility:

axis.com/environmental-responsibility

AXIS Q1700-LE License Plate Camera

Dedicated camera for sharp images at high speeds

AXIS Q1700-LE License Plate Camera delivers clear and sharp license plate images from vehicles moving at speeds of up to 130 km/h (81 mph) day and night. Thanks to a built-in license plate capture assistant, the camera is easy to setup and image settings are automatically adjusted to fit speed, installation height and vehicle distance in a specific traffic scene. A robust design ensures reliable operation in extreme weather conditions and in wind forces up to hurricane level. The camera is designed for usage with third-party edge or server-based software to perform license plate recognition and trigger actions.

- > Sharp license plates in HDTV 1080p / 2 MP
- > Optimized IR range up to 50 m (164 ft)
- > 8x optical zoom
- > Horizontal field of view of 16° - 2.3°
- > Designed for third-party software



AXIS Q1700-LE License Plate Camera

Camera

Image sensor	1/2.8" progressive scan RGB CMOS
Lens	18–137 mm, F2.9–4.0 Horizontal field of view: 16°–2.3° Vertical field of view: 9.6°–1.3° Installation focus, auto-iris, automatic day/night Thread for 62 mm filters, max filter thickness: 5 mm
Day and night	Automatically removable infrared-cut filter in day mode and infrared-pass filter 720 nm in night mode
Minimum illumination	Color: 0.16 lux at 50 IRE F1.4 B/W: 0.03 lux at 50 IRE F1.4, 0 lux with IR illumination on
Shutter speed	1/66500 s to 1 s

License Plate Capture

Detection range	Day: 20–100 m (66–328 ft) Night: 20–50 m (66–164 ft) Night detection range up to 100 m (328 ft) with optional accessory AXIS T90D20 IR-LED Illuminator
IR illumination	Optimized IR with power-efficient, long-life 850 nm IR LED's with adjustable angle of illumination and intensity. Range of reach 40 m (131 ft) in wide field of view and 50 m (164 ft) in full tele view, or more depending on the scene
Vehicle speed	Up to 130 km/h (81 mph) with optional edge analytics Up to 250 km/h (155 mph) with server based analytics
Coverage	Single lane with optional edge analytics Two lanes with server based analytics
Installation	Mounting height: Up to 10 m (33 ft) Distance from road: Up to 10 m (33 ft) Camera detects tilt and roll angle automatically Built-in licence plate capture assistant optimizes video settings based on mounting height, distance to vehicle, and expected vehicle speed

Video

Video compression	H.264 (MPEG-4 Part 10/AVC) Baseline, Main and High Profiles Motion JPEG
Resolution	1920x1080 HDTV 1080p to 160x120 Maximum pixel density with 8x optical zoom: 25 m (82 ft): 1912 px/m 50 m (164 ft): 956 px/m 250 m (820 ft): 191 px/m
Frame rate	With WDR: Up to 25/30 fps (50/60 Hz) in all resolutions Without WDR: Up to 50/60 fps (50/60 Hz) in all resolutions
Video streaming	Multiple, individually configurable streams in H.264 and Motion JPEG Axis Zipstream technology in H.264 Controllable frame rate and bandwidth VBR/ABR/MBR H.264
Image settings	Saturation, contrast, brightness, sharpness, Forensic WDR: Up to 120 dB depending on scene, defogging, white balance, day/night threshold, exposure mode, exposure zones, compression, mirroring of images, electronic image stabilization, barrel distortion correction, text and image overlay, dynamic text and image overlay, privacy masks Rotation: auto, 0°, 180° Scene profiles: license plate, forensic, vivid, traffic overview
Pan/Tilt/Zoom	8x optical zoom, preset positions

Audio

Audio streaming	Audio in, simplex
Audio encoding	AAC-LC 8/16/32/48 kHz, G.711 PCM 8 kHz, G.726 ADPCM 8 kHz, Opus 8/16/48 kHz, LPCM Configurable bit rate
Audio input/output	Automatic gain control External microphone input, line input, digital input with ring power, balanced microphone, balanced input

Network

Security	Password protection, IP address filtering, HTTPS ^a encryption, IEEE 802.1x (EAP-TLS) ^a network access control, digest
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authentication, user access log, centralized certificate management, signed firmware, brute force delay protection

Supported protocols	IPv4, IPv6 USGv6, HTTP, HTTP/2, HTTPS ^a , SSL/TLS ^a , QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, Bonjour, UPnP [®] , SNMP v1/v2c/v3 (MIB-II), DNS, DynDNS, NTP, RTSP, RTP, SRTP, TCP, UDP, IGMPv1/v2/v3, RTCP, ICMP, DHCPv4/v6, ARP, SOCKS, SSH, LLDP, MQTT v3.1.1, Syslog
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System integration

Application Programming Interface	Open API for software integration, including VAPIX [®] and AXIS Camera Application Platform; specifications at axis.com One-click cloud connection ONVIF [®] Profile S and ONVIF [®] Profile G, specification at onvif.org
Event conditions	Analytics, edge storage events Supervised external input, virtual inputs through API, shock detection, video motion detection, audio detection, active tampering
Event actions	Pre- and post-alarm video buffering File upload: FTP, SFTP, HTTP, HTTPS, network share and email Notification: email, HTTP, HTTPS, TCP and SNMP trap
Data streaming	Event data
Built-in installation aids	License plate capture assistant, remote zoom, pixel counter, leveling assistant, autorotation

Analytics

Applications	Included Gatekeeper Support for AXIS Camera Application Platform enabling installation of third-party applications, see axis.com/acap
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General

Casing	IP66- and NEMA 4X-rated, IK10 impact-resistant aluminum enclosure with integrated dehumidifying membrane, IK08 impact-resistant glass front window, weathershield with black anti-glare coating Wind survivability 60 m/s (134 mph) Color: Dark Gray NCS S 5502-B (Weathershield: Black)
Sustainability	PVC free, 5% recycled plastic
Memory	1024 MB RAM, 512 MB Flash
Power	Power over Ethernet (PoE) IEEE 802.3af/802.3at Type 1 Class 3 Typical 7.7 W, max 12.95 W 20–28 V DC, typical 7.8 W, max 13.5 W 20–24 V AC, typical 12.4 V A, max 20 V A
Connectors	Shielded RJ45 10BASE-T/100BASE-TX PoE IDC punchdown connector DC Power connector Terminal block for two configurable supervised inputs / digital outputs (12 V DC output, max. load 50 mA) 3.5 mm mic/line in
IR illumination	Optimized IR with power-efficient, long-life 850 nm IR LED's with adjustable angle of illumination and intensity. Range of reach 40 m (131 ft) in wide field of view and 50 m (164 ft) in full tele view, or more depending on the scene
Storage	Support for microSD/microSDHC/microSDXC card Support for SD card encryption (AES-XTS-Plain64 256bit) Recording to network-attached storage (NAS) For SD card and NAS recommendations see axis.com
Operating conditions	–40 °C to 60 °C (–40 °F to 140 °F) Maximum temperature according to NEMA TS 2 (2.2.7): 74 °C (165 °F) Humidity 10–100% RH (condensing)
Storage conditions	–40 °C to 65 °C (–40 °F to 149 °F) Humidity 5–95% RH (non-condensing)
Approvals	EMC EN 55032 Class A, EN 50121–4, IEC 62236–4, EN 55024, EN 61000–6–1, EN 61000–6–2, FCC Part 15 Subpart B Class A, ICES–003 Class A, VCCI Class A, RCM AS/NZS CISPR 32 Class A, KCC KN32 Class A, KN35, EAC Safety IEC/EN/UL 62368–1, IEC/EN/UL 60950–22, EN/IEC 62471, IS 13252 Environment

EN 50581, IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-6,
IEC 60068-2-14, IEC 60068-2-27, IEC 60068-2-78,
IEC/EN 60529 IP66, IEC/EN 62262 IK10 body, IK08 glass,
NEMA 250 Type 4X, NEMA TS 2 (2.2.7-2.2.9)
Network
NIST SP500-267

Dimensions	Length: 439 mm (17.3 in) ø 147 mm (5.8 in)
Weight	2.4 kg (5.3 lb)
Included accessories	Installation Guide, Windows® decoder 1-user license, connector kit, Resistorx® L-key RJ45 patch cable
Optional accessories	AXIS T90D20 IR-LED Illuminator – for night time capture range at up to 100 m (328 ft) AXIS T8604 Media Converter Switch

AXIS T91A47 Pole Mount, AXIS T94P01B Corner Bracket
For more accessories, see axis.com

Video management software	AXIS Companion, AXIS Camera Station, video management software from Axis' Application Development Partners available at axis.com/vms
Languages	English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Traditional Chinese
Warranty	5-year warranty, see axis.com/warranty

a. *This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (openssl.org), and cryptographic software written by Eric Young (eay@cryptsoft.com).*

Environmental responsibility:

axis.com/environmental-responsibility

AXIS P1447-LE Network Camera

Fully-featured, all-around 5 MP surveillance

AXIS P1447-LE Network Camera is a cost-effective, all-around camera providing excellent image quality at full frame rate in 5 megapixel resolution and in 16:9 format. Fully-featured with Lightfinder, OptimizedIR and Forensic WDR, forensic details are captured even in challenging light conditions including low light and strong backlight. Outdoor-ready with a wide temperature range, this sturdy and impact resistant camera has shock detection and is ready for extreme temperatures. AXIS P1447-LE offers easy installation with remote zoom and focus for fine tuning of the picture. With Axis Zipstream, I/O and audio support, AXIS P1447-LE got you covered.

- > 5 megapixel resolution in full frame rate
- > Ease of installation
- > Forensic WDR, Lightfinder, and OptimizedIR
- > I/O and audio support
- > Axis Zipstream technology



AXIS P1447-LE Network Camera

Camera

Image sensor	1/2.9" progressive scan RGB CMOS
Lens	2.8–8.5 mm, F1.2 Horizontal field of view 104°–36° Vertical field of view 55°–20° Varifocal, Remote focus and zoom, P-Iris control, IR corrected
Day and night	Automatically removable infrared-cut filter
Minimum illumination	Color: 0.15 lux, at 50 IRE F1.2 B/W: 0.03 lux, at 50 IRE F1.2 0 lux with IR illumination on
Shutter speed	1/62500 s to 2 s

Video

Video compression	H.264 (MPEG-4 Part 10/AVC) Baseline, Main and High Profiles Motion JPEG
Resolution	3072x1728 to 160x90
Frame rate	Up to 25/30 fps (50/60 Hz) in all resolutions
Video streaming	Multiple, individually configurable streams in H.264 and Motion JPEG Axis Zipstream technology in H.264 Controllable frame rate and bandwidth VBR/ABR/MBR H.264
Multi-view streaming	Up to 8 individually cropped out view areas

Image settings	Saturation, contrast, brightness, sharpness, Forensic WDR: Up to 120 dB depending on scene, white balance, day/night threshold, exposure mode, exposure zones, compression, orientation: auto, 0°, 90°, 180°, 270° including Corridor Format, mirroring of images, dynamic text and image overlay, privacy masks
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Pan/Tilt/Zoom	Digital PTZ
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Audio

Audio streaming	Audio in, simplex
Audio encoding	24bit LPCM, AAC-LC 8/16/32/48 kHz, G.711 PCM 8 kHz, G.726 ADPCM 8 kHz, Opus 8/16/48 kHz Configurable bit rate
Audio input/output	External microphone input or line input

Network

Security	Password protection, IP address filtering, HTTPS ^a encryption, IEEE 802.1X (EAP-TLS) ^a network access control, digest authentication, user access log, centralized certificate management, brute force delay protection, signed firmware
Supported protocols	IPv4, IPv6, USGv6, HTTP, HTTPS ^a , HTTP/2, SSL/TLS ^a , QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, Bonjour, UPnP [®] , SNMP v1/v2c/v3 (MIB-II), DNS, DynDNS, NTP, RTSP, RTP, SRTP, TCP, UDP, IGMPv1/v2/v3, RTCP, ICMP, DHCPv4/v6, ARP, SOCKS, SSH, LLDP, MQTT v3.1.1, Syslog

System integration

Application Programming Interface	Open API for software integration, including VAPIX [®] and AXIS Camera Application Platform; specifications at axis.com AXIS Video Hosting System (AVHS) with One-Click Connection One-click cloud connection ONVIF [®] Profile G, ONVIF [®] Profile S and ONVIF [®] Profile T, specification at onvif.org
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Event conditions	Analytics Detectors: live stream accessed, video motion detection, audio detection, day/night mode, shock detection, tampering Hardware: network, temperature Input Signal: digital input port, manual trigger, virtual inputs Storage: disruption, recording System: system ready Time: recurrence, use schedule
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Event actions	Record video: SD card and network share Upload of images or video clips: FTP, SFTP, HTTP, HTTPS, network share and email Pre- and post-alarm video or image buffering for recording or upload Notification: email, HTTP, HTTPS, TCP and SNMP trap PTZ: PTZ preset, start/stop guard tour
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Overlay text, external output activation, day/night mode

Data streaming	Event data
Built-in installation aids	Pixel counter, remote zoom (3x optical), remote focus, auto rotation

Analytics

Applications	Included AXIS Motion Guard, AXIS Fence Guard, AXIS Loitering Guard Supported AXIS Digital Autotracking, AXIS Perimeter Defender, AXIS Cross Line Detection Support for AXIS Camera Application Platform enabling installation of third-party applications, see axis.com/acap
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General

Casing	IP66/IP67-, NEMA 4X-, and IK10-rated casing Polycarbonate blend and aluminium Color: white NCS S 1002-B
Sustainability	PVC free
Memory	1024 MB RAM, 512 MB Flash
Power	Power over Ethernet IEEE 802.3af/802.3at Type 1 Class 3 Typical: 6.7 W, max 12.95 W
Connectors	Shielded RJ45 10BASE-T/100BASE-TX PoE 3.5 mm mic/line in I/O: 4-pin terminal block for 1 alarm input and 1 output
IR illumination	Optimized IR with power-efficient, long-life 850 nm IR LEDs Range of reach 30 m (98 FT) or more depending on the scene
Storage	Support for microSD/microSDHC/microSDXC card Support for SD card encryption (AES-XTS-Plain64 256bit) Recording to network-attached storage (NAS) For SD card and NAS recommendations see axis.com
Operating conditions	–40 °C to 60 °C (–40 °F to 140 °F) Maximum temperature according to NEMA TS2 (2.2.7): 74 °C (165 °F) Humidity 10–100% RH (condensing)
Storage conditions	–40 °C to 65 °C (–40 °F to 149 °F) Humidity 5–95% RH (non-condensing)
Approvals	EMC EN 55032 Class A, EN 50121-4, IEC 62236-4, EN 55024, EN 61000-6-1, EN 61000-6-2, FCC Part 15 Subpart B Class A, ICES-003 Class A, VCCI Class A, RCM AS/NZS CISPR 32 Class A, KCC KN32 Class A, KN35 Safety IEC/EN/UL 62368-1, IEC/EN/UL 60950-22, IS 13252, IEC 62471 Environment IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-6, IEC 60068-2-14, IEC 60068-2-27, IEC 60068-2-78, IEC/EN 60529 IP66/IP67, IEC/EN 62262 IK10, NEMA 250 Type 4X, NEMA TS 2 (2.2.7–2.2.9) Network NIST SP500-267
Weight	With weather shield: 1 kg (2.2 lb)
Dimensions	Ø132 x 260 mm (Ø5 3/16 x 10 1/4 in)
Included accessories	Installation guide, Windows [®] decoder 1-user license, drill hole template, connector kit, mounting bracket AXIS Weather Shield L
Optional accessories	AXIS T94F01M J-Box/Gang Box Plate, AXIS T91A47 Pole Mount, AXIS T94P01B Corner Bracket, AXIS T94F01P Conduit Back Box, AXIS Weather Shield K, Axis PoE Midspans For more accessories, see axis.com
Video management software	AXIS Companion, AXIS Camera Station, video management software from Axis' Application Development Partners available at axis.com/vms
Languages	English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Traditional Chinese
Warranty	5-year warranty, see axis.com/warranty

a. This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (openSSL.org), and cryptographic software written by Eric Young (eyay@cryptsoft.com).

Environmental responsibility:

axis.com/environmental-responsibility

Špecifikácia podmienok riešenia záručných servisných zásahov

Špecifikácia časových dojazdov a spôsobu po nahlásení závady

Požiadavky na výkon servisu (opravy, nedostatky) sa budú realizovať telefonicky a zaslaním e-mailu spoločnosti NOPE a.s., ktorá ich potvrdí.

Na odstránenie poruchy NOPE a.s. nastúpi do 6 hodín od nahlásenia v termíne do 14.00 hod. Ak bola závada nahlásená po 14.00 hod., požadovaný čas sa začína počítať od 6.00 hod.

Doba opravy:

a) Do 48 hodín pre centrálné komponenty MKS (PC, switch, server, pracovné stanice, zobrazovacie jednotky)

b) Do 96 hodín pre obslužné časti MKS – napájanie, záložné zdroje

c) Do 10 dní pre periférne časti systému – kamery a k nim prislúchajúce vybavenie.

Operatívny servis bude poskytovaný na základe požiadavky nepretržite a je rozdelený na:

a) operatívny servis od 7:00 do 15:00 hod.

b) operatívny servis od 15:00 do 7:00 hod. a v sobotu

c) operatívny servis vo sviatok a v nedeľu

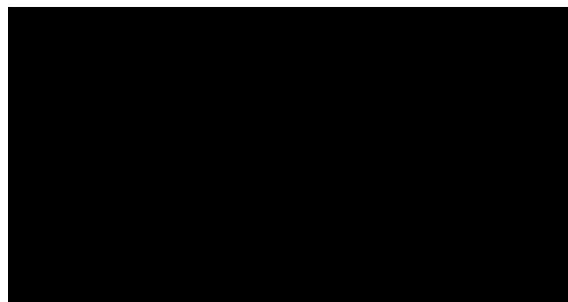
Závalu je potrebné nahlásiť na servisné číslo: 02/4020 6868

Na uvedené číslo je možné telefonovať nonstop - reaguje servisný technik, ktorý má pohotovostnú službu.

Zodpovedný zamestnanec:

Mgr. Miroslav Matejovie, manažér prevádzky servisu a montáže technológií

V Bratislave, dňa 16.6.2021



Peter Novák
predseda predstavenstva NOPE a.s.