



for IP cameras:

TR-D1120WD TR-D1140 TR-D1250WD TR-D1250WDv2 TR-D2121CL3 TR-D2121CL3W TR-D2121IR3W TR-D2121IR3Wv2 TR-D2121IR3WV2 TR-D2121IR3WV3 TR-D2121IR3v2 TR-D2121IR3v3 TR-D2121IR3v4 TR-D2121IR3v6 TR-D2121WDIR3v2 TR-D2121WDIR3v2 TR-D2122WDZIR3 TR-D2122ZIR3v6 TR-D2122ZIR3v6 (C) TR-D2123IR3v2 TR-D2123IR3v2 TR-D2123IR6v3 TR-D2123IR6v4 TR-D2123IR6v6 TR-D2123WDIR6 TR-D2123WDIk TR-D2123ZCL6 TR-D2141IR3 TR-D2142ZIR3 TR-D2143IR3 TR-D2143IR6 TR-D2151CL3v7 TR-D2151IR3 TR-D21511R3 TR-D21511R3v2 TR-D2152ZIR3 TR-D2152ZIR3v2 TR-D2152ZIR3v2 (C) TR-D2153IR6 TR-D2153IR6v2 TR-D21537CL6v7 TR-D21532CL607 TR-D2161IR3 (rev.2) TR-D2163IR6 TR-D2183IR6 TR-D2183IR6 TR-D2221WDC TR-D2221WDCL4 TR-D2221WDIR4 TR-D2221WDIR4 TR-D2221WDIR4Wv2 TR-D2221WDIR4Wv2 TR-D2221WDIR4v2 TR-D2222WDZIR4

TR-D2222WDZIR4v2 TR-D2222WD2IR4V2 TR-D2222WD2IR4V2 (C) TR-D2223WDIR7v2 TR-D2223WDIR7v2 TR-D2223WDZIR7 TR-D2223WDZIR7v2 TR-D2224WD7IR7 TR-D2224WDZIR7 TR-D2224WDZIR7v2 TR-D2251WDC TR-D2251WDCL4 TR-D2251WDIR4 TR-D2251WDIR4Wv2 TR-D2251WDIR4v2 TR-D2252WDZIR4 IR-D2252WDZIR4 TR-D2252WDZIR4v2 TR-D2252WDZIR4v2 (C) TR-D2253WDIR7 TR-D2253WDIR7v2 TR-D2253WDZCL7 TR-D2253WDZIR7 TR-D2253WDZIR7v2 TR-D2253WDZIR/ TR-D2321WDIR4 TR-D2323WDZIR7 TR-D2324WDZIR9 TR-D2351WDIR4 TR-D2353WDZIR7 TR-D2354WDZIR9 TR-D2B5 TR-D285-noPoE TR-D2B5-noPoEv2 TR-D2B5-noPoEv2 TR-D2B5-noPoEv3 TR-D2B5L TR-D2B5L-noPoE TR-D2B5v2 TR-D2B5v3 TR-D286 TR-D286 TR-D286v2 TR-D286v3 TR-D2D1v3 (P) TR-D2D2 TR-D2D2v2 TR-D2D2v3 TR-D2D5 TR-D2D5v2 TR-D2D5v3 TR-D2S1 TR-D2S1-noPoE

TR-D2S1-noPoEv2 TR-D2S1-noPoEv2 TR-D2S1-noPoEv3 TR-D2S1v2 TR-D2S1v3 TR-D2S5 TR-D2S5-noPoE TR-D2S5-noPoEv2 TR-D2S5-noPoEv2 TR-D2S5-noPoEv3 TR-D2S5v2 TR-D2S5v3 TR-D3121IR1v2 TR-D3121IR1v3 TR-D3121IR1v4 TR-D3121IR2Wv3 TR-D3121IR2Wv3 TR-D3121IR2v6 TR-D3122WDZIR2 TR-D3122ZIR2v6 TR-D3122ZIR2v6 (C) TR-D3122IR2v3 TR-D3123IR2v4 TR-D3123IR2v6 TR-D3123VIR2v2 TR-D3123VIR2V2 TR-D3123WDIR2 TR-D3141IR1 TR-D3142ZIR2 TR-D3143IR2 TR-D3143VIR2 TR-D3151CL3v7 IR-D3151CL3v/ TR-D3151IR2 TR-D3151IR2v2 TR-D3152ZIR2 TR-D3152ZIR2v2 TR-D3152ZIR2v2 (C) TR-D3153IR2 TR-D3153IR2v2 TR-D3221WDIR3 TR-D3221WDIR3 TR-D3221WDIR3W TR-D3221WDIR3Wv2 TR-D3221WDIR3v2 TR-D3223WDZIR3 TR-D3223WDZIR3v2 TR-D3251WDIR3Wv2 TR-D3251WDIR3v2 TR-D3253WDIR3V2 TR-D3253WDZIR3 TR-D3253WDZIR3v2 TR-D3321WDIR4 TR-D3323WDZIR4

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USER MANUAL

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CHAPTER 1. INTRODUCTION

1.1 TRASSIR IP camera exterior

1.1.1 TRASSIR TR-D1120WD / TR-D1140









Connector	Description
DC12V	12V power supply connector.
RJ-45	LAN connector.
Audio IN	Microphone Connector.
Audio OUT	Speaker connector.
Alarm inputs/outputs	Alarm inputs and outputs.
MicroSD Slot	Slot for microSD memory card.
RESET Button	Reset to factory defaults.



1.1.2 TRASSIR TR-D1250WD / TR-D1250WDv2









Connector	Description
DC12V	12V power supply connector.
RJ-45	LAN connector.
Audio IN	Microphone Connector.
Audio OUT	Speaker connector.
Alarm inputs/outputs	Alarm inputs and outputs.
MicroSD Slot	Slot for microSD memory card.
RESET Button	Reset to factory defaults.



1.1.3 TRASSIR TR-D2121IR3v2 / TR-D2121IR3v3 / TR-D2121IR3v4 / TR-D2121WDIR3v2 / TR-D2141IR3 / TR-D2142ZIR3 / TR-D2161IR3 / TR-D2181IR3







Connector	Description
DC12V	12V power supply connector.
LAN	LAN connector.
USB	USB connector for USBHDD



1.1.4 TRASSIR TR-D2121CL3





Connector	Description
DC12V	12V power supply connector.
LAN	LAN connector.



1.1.5 TRASSIR TR-D2121IR3v6 / TR-D2122ZIR3v6 / TR-D2122ZIR3v6 (C)





Connector	Description
DC12V	12V power supply connector.
LAN	LAN connector.



1.1.6 TRASSIR TR-D2121IR3W





Connector	Description
DC12V	12V power supply connector.
LAN	LAN connector.



1.1.7 TRASSIR TR-D2121IR3Wv2 / TR-D2121IR3Wv3





Connector	Description
DC12V	12V power supply connector.
LAN	LAN connector.



1.1.8 TRASSIR TR-D2121CL3W





Connector	Description
DC12V	12V power supply connector.
LAN	LAN connector.





1.1.9 TRASSIR TR-D2123ZCL6





Connector	Description
DC12V	12V power supply connector.
LAN	LAN connector.



1.1.10 TRASSIR TR-D2123IR3v2 / TR-D2143IR3







Connector	Description
DC12V	12V power supply connector.
LAN	LAN connector.
Audio OUT	Speaker connector.
AUDIO IN	Active microphone connector.
Alarm I/O	Alarm inputs and outputs.



1.1.11 TRASSIR TR-D2122WDZIR3 / TR-D2151IR3 / TR-D2151IR3v2 / TR-D2152ZIR3 / TR-D2152ZIR3v2 / TR-D2152ZIR3v2 (C) / TR-D2221WDIR4 / TR-D2221WDIR4v2 / TR-D2251WDIR4 / TR-D2251WDIR4v2





TR-D2221WDIR4 / TR-D2251WDIR4

TR-D2122WDZIR3 / TR-D2151IR3 / TR-D2151IR3v2 / TR-D2151IR3v2 (C) / TR-D2152ZIR3 / TR-D2152ZIR3v2







Connector	Description
DC12V	12V power supply connector.
LAN	LAN connector.
Audio OUT	Speaker connector.
AUDIO IN	Active microphone connector.
Alarm I/O	Alarm inputs and outputs.



1.1.12 TRASSIR TR-D2123IR6v3 / TR-D2123IR6v4 / TR-D2123IR6v6 / TR-D2143IR6 /TR-D2123WDIR6 / TR-D2163IR6 / TR-D2183IR6









Connector	Description
DC12V	12V power supply connector.
LAN	LAN connector.
Audio OUT	Speaker connector.
AUDIO IN	Active microphone connector.
Alarm I/O	Alarm inputs and outputs.
USB	USB connector for USBHDD



1.1.13 TRASSIR TR-D2153ZCL6v7







Connector	Description
DC12V	12V power supply connector.
LAN	LAN connector.
Audio OUT	Speaker connector.
AUDIO IN	Active microphone connector.



1.1.14 TRASSIR TR-D2321WDIR4 / TR-D2351WDIR4







ALARM Alarm inputs and outputs.



1.1.15 TRASSIR TR-D2B6 / TR-D4B6 / TR-D2B6v2





Connector	Description
DC12V	12V power supply connector.
LAN	LAN connector.



1.1.16 TRASSIR TR-D2B5-noPoE / TR-D2B5-noPoEv2 / TR-D2B5 / TR-D2B5v2 / TR-D2B5v2 (B) / TR-D4B5-noPoE / TR-D4B5



CHAPTER 1. INTRODUCTION



External connectors:

TR-D2B5v2 (B)



TR-D2B5-noPoE / TR-D2B5-noPoEv2 / TR-D2B5 / TR-D2B5v2 / TR-D4B5-noPoE / TR-D4B5



Connector	Description
DC12V	12V power supply connector.
LAN	LAN connector.
Audio OUT	Speaker connector.
AUDIO IN	Active microphone connector.
Alarm I/O	Alarm inputs and outputs.



1.1.17 TRASSIR TR-D2B5L / TR-D2B5L-noPoE / TR-D4B5L / TR-D4B5L-noPoE





Connector	Description
DC12V	12V power supply connector.
LAN	LAN connector.



1.1.18 TRASSIR TR-D2B5v3 / TR-D2B5v3 (B) / TR-D2B5-noPoEv3 / TR-D4B5v3







TR-D2B5v3 (B)



Connector	Description
DC12V	12V power supply connector.
LAN	LAN connector.
Audio OUT	Speaker connector.
AUDIO IN	Active microphone connector.
Alarm I/O	Alarm inputs and outputs.



1.1.19 TR-D2B6v3 / TR-D4B6v3





Connector	Description
DC12V	12V power supply connector.
LAN	LAN connector.



1.1.20 TRASSIR TR-D2221WDIR4W / TR-D2221WDIR4Wv2 / TR-D2251WDIR4Wv2




TR-D2221WDIR4W

TR-D2221WDIR4Wv2 / TR-D2251WDIR4Wv2



Connector	Description
DC12V	12V power supply connector.
LAN	LAN connector.
Audio OUT	Speaker connector.
AUDIO IN	Active microphone connector.
Alarm I/O	Alarm inputs and outputs.



1.1.21 TRASSIR TR-D2222WDZIR4 / TR-D2222WDZIR4v2 / TR-D2222WDZIR4v2 (C) / TR-D2252WDZIR4 / TR-D2252WDZIR4v2 / TR-D2252WDZIR4v2 (C)





TR-D2222WDZIR4 / TR-D2252WDZIR4

TR-D2222WDZIR4v2 / TR-D2222WDZIR4v2 (C) / TR-D2252WDZIR4v2 / TR-D2252WDZIR4v2 (C)





Connector	Description
DC12V	12V power supply connector.
LAN	LAN connector.
Audio OUT	Speaker connector.
AUDIO IN	Active microphone connector.
Alarm I/O	Alarm inputs and outputs.



1.1.22 TRASSIR TR-D2153IR6/ TR-D2153IR6v2 / TR-D2223WDIR7/ TR-D2223WDIR7v2 / TR-D2223WDZIR7 / TR-D2223WDZIR7v2 / TR-D2253WDIR7 / TR-D2253WDIR7v2 / TR-D2253WDZIR7 /



TR-D2253WDZIR7v2

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External connectors:

TR-D2153IR6/ TR-D2153IR6v2 / TR-D2223WDIR7 / TR-D2223WDZIR7 / TR-D2253WDIR7 / TR-D2253WDZIR7

TR-D2223WDZIR7v2 / TR-D2223WDIR7v2 / TR-D2253WDIR7v2 / TR-D2253WDZIR7v2



Connector	Description
DC12V	12V power supply connector.
LAN	LAN connector.
AUDIO OUT	Speaker connector.
AUDIO IN	Active microphone connector.
ALARM	Alarm inputs and outputs.



1.1.23 TRASSIR TR-D2323WDZIR7 / TR-D2353WDZIR7







Connector	Description
DC12V	12V power supply connector.
LAN	LAN connector.
AUDIO OUT	Speaker connector.
AUDIO IN	Active microphone connector.
ALARM	Alarm inputs and outputs.



1.1.24 TRASSIR TR-D2224WDZIR7 / TR-D2224WDZIR7v2







Connector	Description
DC12V	12V power supply connector.
LAN	LAN connector.
AUDIO OUT	Speaker connector.
AUDIO IN	Active microphone connector.
ALARM	Alarm inputs and outputs.



1.1.25 TRASSIR TR-D2324WDZIR9 / TR-D2354WDZIR9







Connector	Description
DC12V	12V power supply connector.
LAN	LAN connector.
AUDIO OUT	Speaker connector.
AUDIO IN	Active microphone connector.
ALARM	Alarm inputs and outputs.





1.1.26 TRASSIR TR-D2221WDC



CHAPTER 1. INTRODUCTION





Connector	Description
DC12V	12V power supply connector.
LAN	LAN connector.
Audio OUT	Speaker connector.
Alarm I/O	Alarm inputs and outputs.





1.1.27 TRASSIR TR-D2251WDC







Connector	Description
DC12V	12V power supply connector.
LAN	LAN connector.
AUDIO OUT	Speaker connector.
AUDIO IN	Active microphone connector.
Alarm I/O	Alarm inputs and outputs.



1.1.28 TRASSIR TR-D2221WDCL4 TR / TR-D2151CL3v7 / TR-D2251WDCL4



CHAPTER 1. INTRODUCTION



External connectors:

TR-D2221WDCL4

TR-D2151CL3v7







Connector	Description
DC12V	12V power supply connector.
LAN	LAN connector.
Audio OUT	Speaker connector.
Alarm I/O	Alarm inputs and outputs.





1.1.29 TRASSIR TR-D2253WDZCL7







Connector	Description
DC12V	12V power supply connector.
LAN	LAN connector.
AUDIO OUT	Speaker connector.
AUDIO IN	Active microphone connector.
Alarm I/O	Alarm inputs and outputs.



1.1.30 TRASSIR TR-D2D2 / TR-D2D2v2 / TR-D2D2v3 / TR-D4D2v3





Connector	Description
LAN	LAN connector.
DC12V	12V power supply connector.



1.1.31 TRASSIR TR-D2D5 / TR-D2D5v2 / TR-D2D1v3 (P) / TR-D2D5v3 / TR-D3121IR1v2 / TR-D3121IR1v3 / TR-D3121IR1v4 / TR-D3141IR1 / TR-D4D5 / TR-D4D5v3







Connector	Description
LAN	LAN connector.
DC12V	12V power supply connector.





1.1.32 TRASSIR TR-D3121IR2v6





Connector	Description
LAN	LAN connector.
DC12V	12V power supply connector.



1.1.33 TRASSIR TR-D2S1 / TR-D2S1v2 / TR-D2S1v3 / TR-D2S1-noPoE / TR-D2S1-noPoEv2 / TR-D2S1-noPoEv3 / TR-D4S1 / TR-D4S1v3





Connector	Description
LAN	LAN connector.
DC12V	12V power supply connector.



1.1.34 TRASSIR TR-D2S5-noPoEv2 / TR-D2S5 / TR-D2S5v2 / TR-D2S5v3 / TR-D2S5-noPoEv3 / TR-D8121IR2v2 / TR-D8121IR2v3 / TR-D8121WDIR2v2 / TR-D8141IR2 / TR-D8121IR2v4





TR-D8121IR2v3 / TR-D8121IR2v4 / TR-D8141IR2

TR-D2S5-noPoEv2 / TR-D2S5 / TR-D2S5v3 / TR-D2S5-noPoEv3 / TR-D8121IR2v2





Connector	Description
LAN	LAN connector.
USB	USB connector for USBHDD
DC12V	12V power supply connector.



1.1.35 TRASSIR TR-D3122WDZIR2 / TR-D3142ZIR2







Connector	Description
LAN	LAN connector.
USB	USB connector for USBHDD
DC12V	12V power supply connector.



1.1.36 TRASSIR TR-D3122ZIR2v6 / TR-D3122ZIR2v6 (C) / TR-D3123IR2v6





TR-D3122ZIR2v6 / TR-D3122ZIR2v6 (C)

TR-D3123IR2v6



Connector	Description
DC12V	12V power supply connector.
LAN	LAN connector.
AUDIO OUT	Speaker connector.
AUDIO IN	Active microphone connector.





1.1.37 TRASSIR TR-D3123VIR2v2







Connector	Description
DC12V	12V power supply connector.
LAN	LAN connector.
AUDIO OUT	Speaker connector.
AUDIO IN	Active microphone connector.
ALARM	Alarm inputs and outputs.





1.1.38 TRASSIR TR-D3121IR2Wv3





Connector	Description
LAN	LAN connector.
DC12V	12V power supply connector.



1.1.39 TRASSIR TR-D3123IR2v3 / TR-D3123IR2v4 / TR-D3123WDIR2 / TR-D3143IR2 / TR-D4D2



CHAPTER 1. INTRODUCTION





Connector	Description
DC12V	12V power supply connector.
LAN	LAN connector.
USB	USB connectors for USBHDD.





1.1.40 TRASSIR TR-D3143VIR2






Description
12V power supply connector.
LAN connector.
Speaker connector.
Active microphone connector.
Alarm inputs and outputs.





1.1.41 TRASSIR TR-D3151IR2





Connector	Description
LAN	LAN connector.
DC12V	12V power supply connector.





1.1.42 TRASSIR TR-D3151CL3v7







Connector	Description
DC12V	12V power supply connector.
LAN	LAN connector.
AUDIO OUT	Speaker connector.
AUDIO IN	Active microphone connector.



1.1.43 TRASSIR TR-D3152ZIR2





Connector	Description
LAN	LAN connector.
DC12V	12V power supply connector.



1.1.44 TRASSIR TR-D3221WDIR3/ TR-D3221WDIR3v2 / TR-D3151IR2v2 / TR-D3152ZIR2v2 / TR-D3152ZIR2v2 (C) / TR-D3251WDIR3v2







TR-D3221WDIR3 / TR-D3151IR2v2

TR-D3221WDIR3v2 / TR-D3251WDIR3v2



TR-D3152ZIR2v2 / TR-D3152ZIR2v2 (C)



Connector	Description
DC12V	12V power supply connector.
LAN	LAN connector.
Hardware reset	Hardware settings reset (see 2.6).
AUDIO OUT	Speaker connector.
AUDIO IN	Active microphone connector.
ALARM	Alarm inputs and outputs.



1.1.45 TRASSIR TR-D3221WDIR3W/ TR-D3221WDIR3Wv2 / TR-D3251WDIR3Wv2







Connector	Description
DC12V	12V power supply connector.
LAN	LAN connector.
AUDIO OUT	Speaker connector.
AUDIO IN	Active microphone connector.
ALARM	Alarm inputs and outputs.



1.1.46 TRASSIR TR-D3223WDZIR3 / TR-D3223WDZIR3v2 / TR-D3253WDZIR3 / TR-D3253WDZIR3v2 / TR-D3153IR2 / TR-D3153IR2v2



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External connectors:

TR-D3223WDZIR3 / TR-D3253WDZIR3v2 / TR-D3253WDZIR3

TR-D3153IR2 / TR-D3153IR2v2



TR-D3223WDZIR3v2 / TR-D3253WDZIR3v2



Connector	Description
DC12V	12V power supply connector.
LAN	LAN connector.
AUDIO OUT	Speaker connector.
AUDIO IN	Active microphone connector.
ALARM	Alarm inputs and outputs.



1.1.47 TRASSIR TR-D3321WDIR4 / TR-D3351WDIR4







Connector	Description
DC12V	12V power supply connector.
LAN	LAN connector.
AUDIO OUT	Speaker connector.
AUDIO IN	Active microphone connector.
ALARM	Alarm inputs and outputs.



1.1.48 TRASSIR TR-D3323WDZIR4 / TR-D3353WDZIR4







Connector	Description
DC12V	12V power supply connector.
LAN	LAN connector.
AUDIO OUT	Speaker connector.
AUDIO IN	Active microphone connector.
ALARM	Alarm inputs and outputs.



1.1.49 TRASSIR TR-D4121IR1v2 / TR-D4121IR1v4 / TR-D4141IR1 / TR-D4161IR1 / TR-D4181IR1



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Connector	Description
DC12V	12V power supply connector.
LAN	LAN connector.
AUDIO OUT	Speaker connector.
AUDIO IN	Active microphone connector. Not supported in TR-D4121IR1v4.





1.1.50 TRASSIR TR-D4B5v2 / TR-D4B5-noPoEv2





Connector	Description
LAN	LAN connector.
DC12V	12V power supply connector.



1.1.51 TRASSIR TR-D4B6v2





Connector	Description
LAN	LAN connector.
DC12V	12V power supply connector.





1.1.52 TRASSIR TR-D4D2v2







1.1.53 TRASSIR TR-D2D5v3 / TR-D4D5v2





Connector	Description
LAN	LAN connector.
DC12V	12V power supply connector.



1.1.54 TRASSIR TR-D4S1v2 / TR-D4S1-noPoEv2





Connector	Description
LAN	LAN connector.
DC12V	12V power supply connector.



1.1.55 TRASSIR TR-D4S5v2 / TR-D4S5-noPoEv2 / TR-D4S5-noPoE / TR-D4S5





Connector	Description
LAN	LAN connector.
DC12V	12V power supply connector.





1.1.56 TRASSIR TR-D4S5v3





Connector	Description
LAN	LAN connector.
DC12V	12V power supply connector



1.1.57 TRASSIR TR-D4121IR1v6 / TR-D4221WDIR2 / TR-D4221WDIR2v2 / TR-D4151IR1 / TR-D4151IR1v2 /









1.1.58 TRASSIR TR-D4251WDIR2 / TR-D4251WDIR2v2 / TR-D4321WDIR2 / TR-D4351WDIR2





TR-D4251WDIR2 / TR-D4251WDIR2v2

TR-D4321WDIR2 / TR-D4351WDIR2





Connector	Description
DC12V	12V power supply connector.
LAN	LAN connector.
AUDIO OUT	Speaker connector.
AUDIO IN	Active microphone connector.
ALARM	Alarm inputs and outputs.



1.1.59 TRASSIR TR-D7121IR1Wv3









Connector	Description
LAN	LAN connector.
DC 12V	12V DC power connector.
RESET button	Button to reset camera settings to factory defaults.
MicroSD Slot	Slot for microSD memory card.



1.1.60 TRASSIR TR-D7121IR1W / TR-D7121IR1Wv2 / TR-D7121IR1v3 / TR-D7121IR1v4 / TR-D7121IR1v5 / TR-D7121IR1v6 / TR-D7141IR1 / TR-D7151IR1 / TR-D7251WDIR2Wv2 / TR-D7221WDIR2Wv2









Connector	Description
LAN	LAN connector.
DC 12V	12V DC power connector.
RESET button	Button to reset camera settings to factory defaults.
MicroSD Slot	Slot for microSD memory card.



1.1.61 TRASSIR TR-D8121IR2W





Connector	Description
RJ-45	LAN connector.
DC12V	12V power supply connector.



1.1.62 TRASSIR TR-D8121IR2Wv2 / TR-D8121IR2Wv3







1.1.63 TRASSIR TR-D8121IR2v6 / TR-D8221WDIR3/ TR-D8221WDIR3v2 / TR-D8122ZIR2v6 / TR-D8122ZIR2v6 (C) / TR-D8251WDIR3 / TR-D8251WDIR3v2 / TR-D8151IR2/ TR-D8151IR2v2 / TR-D8152ZIR2 / TR-D8152ZIR2v2 / TR-D8152ZIR2v2 (C)





TR-D8221WDIR3 / TR-D8251WDIR3

TR-D8122ZIR2v6 / TR-D8122ZIR2v6 (C) / TR-D8151IR2/ TR-D8151IR2v2 / TR-D8152ZIR2 / TR-D8152ZIR2v2 / TR-D8152ZIR2v2 (C)



TR-D8221WDIR3v2 / TR-D8251WDIR3v2



Connector	Description
RJ-45	LAN connector
AUDIO OUT	Speaker connector.
AUDIO IN	Active microphone connector.
DC12V	12V power supply connector.
Alarm I/O	Alarm inputs and outputs.


1.1.64 TRASSIR TR-D8121CL2





Connector	Description
RJ-45	LAN connector.
DC12V	12V power supply connector.





1.1.65 TRASSIR TR-D8151CL3v7



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Connector	Description	
DC12V	12V power supply connector.	
LAN	LAN connector.	
AUDIO OUT	Speaker connector.	
AUDIO IN	Active microphone connector.	





1.1.66 TRASSIR TR-D8221WDC



CHAPTER 1. INTRODUCTION





Connector	Description
DC12V	12V power supply connector.
LAN	LAN connector.
Audio OUT	Speaker connector.
Alarm I/O	Alarm inputs and outputs.





1.1.67 TRASSIR TR-D8123ZIR3



CHAPTER 1. INTRODUCTION





Connector	Description
DC12V	12V power supply connector.
LAN	LAN connector.
USB	USB connector for USBHDD.





1.1.68 TRASSIR TR-D8251WDC







Connector	Description
DC12V	12V power supply connector.
LAN	LAN connector.
AUDIO OUT	Speaker connector.
AUDIO IN	Active microphone connector.
Alarm I/O	Alarm inputs and outputs.





1.1.69 TRASSIR TR-D8221WDCL3







Connector	Description	
DC12V	12V power supply connector.	
LAN	LAN connector.	
Audio OUT	Speaker connector.	
Alarm I/O	Alarm inputs and outputs.	





1.1.70 TRASSIR TR-D8251WDCL3







Connector	Description
DC12V	12V power supply connector.
LAN	LAN connector.
AUDIO OUT	Speaker connector.
AUDIO IN	Active microphone connector.
Alarm I/O	Alarm inputs and outputs.



1.1.71 TRASSIR TR-D8321WDIR4 / TR-D8351WDIR4







Connector	Description
DC12V	12V power supply connector.
LAN	LAN connector.
AUDIO OUT	Speaker connector.
AUDIO IN	Active microphone connector.
ALARM	Alarm inputs and outputs.



1.1.72 TRASSIR TR-D9141IR2 / TR-D9161IR2 TR-D9151IR2 / TR-D9151IR2v2 / TR-D9251WDIR3 / TR-D9251WDIR3v2



CHAPTER 1. INTRODUCTION



External connectors:

TR-D91511R2 / TR-D91511R2v2 / TR-D9251WDIR3 / TR-D91411R2 / TR-D91611R2

TR-D9251WDIR3v2





Connector	Description
DC12V	12V power supply connector.
LAN	LAN connector.
AUDIO OUT	Speaker connector.
AUDIO IN	Active microphone connector.
ALARM	Alarm inputs and outputs.



1.2 Safety instructions

Please, read this manual before connecting and setting up your IP camera.

Check the conformity of the input voltage with the passport details and make sure that the power source is operatig properly.

Use network filters or UPS to increase the reliability of the IP-camera, protect against voltage drops, and ensure uninterrupted power supply.

Do not expose the IP camera to high pressure, shaking, mechanical shock, or strong electromagnetic radiation. Avoid installing the equipment on surfaces subject to vibrations, as this may damage it. When transporting, the IP camera must be placed in its original packaging or packaging the device safety.

Do not touch the sensor module. If necessary, use a clean cloth with a small amount of ethanol. The operation of the sensor may be disrupted by the laser ray, so when using any laser equipment, make sure that the rays do not hit the surface of the matrix. Do not aim the camera at the sun or very bright areas. This can lead to loss of image clarity, and can significantly shorten the life of the sensor module.

Do not expose the camera to extremely high or low temperatures (you can see the specification in the device datasheet).

Do not use the device in dirty rooms with high humidity, as this may result in a fire or an electrical short circuit. Free air exchange is required for proper camera operation.

Do not expose the equipment to direct sunlight. Do not place it near heat sources such as a stove, heater or radiator (it may result in fire).

The IP camera mounted on a wall or ceiling must be securely fixed.

If case of IP camera malfunction, contact your supplier or the nearest service center. Do not attempt to repair the camera by yourself. (The manufacturer declines the warranty obligations for damages resulting from unauthorized repairs or maintenance.).

CHAPTER 1. INTRODUCTION



1.3 Warranty obligations

The warranty period for cameras is 5 years.

The warranty obligations are valid from the date of sale of the IP camera to the final consumer and throughout the entire warranty period

If the IP camera malfunctions during the warranty period, you are entitled to request a free repair, except for non-warranty cases, in DSSL Service Center.

The warranty is void if the cause of the malfunction of the IP camera is:

- intentional corruption;
- fire, flood, or any other natural disaster;
- power outages;
- violation of technical requirements for placement, connection and operation;
- mechanical damages.



CHAPTER 2. CONNECTING TRASSIR IP CAMERA

2.1 System requirements

To start working with the TRASSIR IP camera, you need a PC connected to the local network:

- on Windows, Mac OS, Linux etc.;
- having Google Chrome, Mozilla Firefox, Safari or any other web browser installed.

2.2 Local network connection

Depending on the model, you can choose one of the following options to connect the IP camera to the local network:

- using a network cable (you can check the description on the connectors in section 1.1);
- using a network cable to any network equipment with the support of PoE technology;
- to WiFi wireless network.

NOTE.

It is not recommended to use switches, injectors and other PoE power supplies that use the Passive PoE standard to power up the cameras.



2.3 IP address configuration

NOTE.

In order to connect to IP camera, you PC should be in the same local network with the camera. You can read a detailed description of the PC settings sequence in Supplement A.

The following network settings should be configured on the IP camera by default:

- IP address: 192.168.1.188;
- Subnet mask: 255.255.0.0;
- Gateway: 192.168.1.1;
- ♦ HTTP port: 80;
- user name: admin;
- password: admin.

The example of the network settings:

- IP address: 192.168.1.10;
- Subnet mask: 255.255.0.0.

Start the web browser and try to connect to the IP camera. To do this, type in http://192.168.1.188 into the address bar and press Enter.

Enter user name and password to access web interface (see section. 3.1), after that change the IP camera network settings (see section 3.4.3.1).

NOTE.

If you failed to get access to the IP camera, check you firewall settings and try again.

If the IP address of the camera differs from the default settings, then use the IPCManager utility (see section Searching for IP-camera using TRASSIR IPCManager app).



2.4 Connecting to the IP camera via the Internet

There are several options to access IP camera via the Internet:

• The Internet service provider provides an actual **static** IP address.

In this case, the provider grants the subscribe a list of network settings: IP address, subnet mask, gateway and DNS server IP address, or PPPoE connection details, which should be specified in the camera settings. Using such a network organization, it is impossible to use an external IP address to connect to several network devices at once, that is, it will be possible to connect to only one IP camera at a time

NOTE.

A static camera IP address and other required parameters are specified in the network settings (see 3.4.3.1).

See PPPoE settings description in 3.4.3.4.

• The Internet service provider allocates an actual external **static** IP address, which is used to connect to an office or home network.

In this case, to organize the local network, a special device is used - a router (or a NAT server). To access the IP camera from the Internet, you should configure forwarding of the incoming connections from the router (NAT server) to the internal local addresses of IP cameras

NOTE.

See detailed router settings description in «SUPPLEMENT C. Router settings».

The Internet service provider allocates an actual external dynamic IP address. That is upon connection to the Internet the IP address will be different each time. This variant is very common when working through 3G, GPRS or ADSL connection. In thi case you should use DDNS server options.

NOTE.

See description of DDNS server in IP camera in 3.4.3.1.



2.5 Confguring ActiveX for Internet Explorer

If you use the Internet Explorer browser to get image from the IP camera, check ActiveX settings before gaining access to the IP camera web interface (see section 3.1).

Open the General tab of the Internet Explorer options. Press Settings in the Browsing History settings group. Select Everytime I visit the webpage in Check for newer versions of the stored page parameters group in Website data settings window.

Iternet Options	? X	Internet Options	?)
Seneral Security Privacy Content Connections Progr	ams Advanced	General Security Privacy Content Connections Programs	Advance
Home page		Home page	
To create home page tabs, type each address of	n its own line.	Website Data Settings	? >
Use gurrent Use default Startup OStart with tabs from the last session Start with home page Tabs Change how webpages are displayed in tabs. Browsing history Delate temperatur files history, caption gauge descented	Lise new tab	Temporary Internet Files History Caches and databases Internet Explorer stores copies of webpages, images, and media for faster viewing later. Check for newer versions of stored pages: Every time I visit the webpage Every time I gtart Internet Explorer Automatically Never Disk space to use (8-1024MB) (Recommended: 50-250MB) 330 \$ Current location: \$	
Delete temporary files, history, cookies, saved passwords form information.	s, and web	C:\Users\User\AppData\Local\Microsoft\Windows\UNetCache\	
Delete browsing history on exit	Settings	Move folder View gbjects View files	
Colors Languages Fonts	Accessibility	Ск	Cancel
OK Cancel	Apply	OK Cancel	Apply



Open the Security tab, select the Internet area and press the Custom level... button. Select Prompt in Download unsigned ActiveX components.

ernet Options	? X	Internet Options ?	>
eneral Security Privacy Content Connections Programs	Advanced	Security Settings - Internet Zone	
Select a zone to view or change security settings. Network Cocal intranet Trusted sites Cocal intranet Cocal intranet intranet sites Cocal intranet Cocal intranet intranet sites Cocal intranet Cocal intranet intranet sites Cocal intranet Cocal intranet sites Cocal intranet Cocal intranet sites Cocal intranet Sites Cocal intranet Cocal intranet sites Cocal intranet Si	es ed Norer) level	Settings	^

Press OK in all opened windows to save the changes.

WARNING!

In case the image is absent in the preview window (see section 3.2) of the web interface (see section 3.1) it means ActiveX plugin is not installed. Internet Explorer will offer to download and install ActiveX plugin.

You should run the browser as Administrator to save some settings of the IP camera web interface.



2.6 Reset IP camera settings

There are three ways to reset IP camera settings:

- 1. Software reset to default values (see section 3.4.2.3).
- 2. Software reset to factory settings (see section 3.4.2.3).
- 3. Hardware reset using RESET button.

WARNING!

Software reset to the factory settings and hardware reset set factory default settings on the camera, including IP camera, login and password.

It is recommended to use these methods in case of emergency, if the software reset does not help.

You can perform the hardware reset using RESET button the following:

- 1. Power the camera on.
- 2. Press the RESET button (see 1.1) and hold for 10 sec.
- 3. Release the button. The camera will restart.
- 4. Try to connect to the IP camera (see 2.3).





CHAPTER 3. TRASSIR IP CAMERA CONFIGURATION

3.1 Gaining access to IP camera web interface.

In case you know IP camera IP address and port, then start Internet Explorer and enter http://<ip>:<port> into the address bar (where <ip> is a camera IP address and <port> is a value of http port). After that press Enter.

NOTE.

If the <port> is 80, you can omit it. Just enter http://<ip> into the address bar. E.g., http://192.168.1.188.

NOTE.

You can see the description of the IP camera network settings in 3.4.3.1. Default values: IP address: 192.168.1.188 Port: 80

T	RASS	R
	User name Password]
	English]
	Login	
		Forgot Password?

In case of successful connection you will see a user authorization window:



Enter user name and password. You can also change the interface language. After that press Login.

NOTE.

The default setting is described in 3.4.7.1. Default values: User name: admin Password: admin

NOTE.

In order to reset your password press Reset password in the authorization menu. You will see the random device code in the opened window. The Random device code will be valid for 24 hours, it is not allowed to reboot or turn the device off within this time period.

Random device code	4B151A835F25BB1A652BAA4806543A34	
Effective time	23 : 59 : 55	Refresh
Authorization code		
New password	۲	
Confirm password		Reset passwor

After that contact our technical support via reset@trassir.com and provide the following data in your request:

- 1. Full name.
- 2. Contact telephone number.
- 3. You company name.
- 4. Random device code.
- 5. The photo of the sticker on camera.

As a reply you will receive the authorization code. Enter this code into the corresponding field in the authorization window and create a new password.



WARNING!

We recommend to change the administrator password (see 3.4.7.1) and IP address (see 3.4.3.1) upon the first connection to the IP camera web interface.

WARNING!

If there is no image from camera check your ActiveX settings in Internet Explorer (see 2.5)

In case of successful authorization in Internet Explorer you will see the settings menu.



The menu consists of the following areas:

Setting	Description
Basic settings	IP camera main settings buttons.
Current user	Current authorized user. Read more about user settings in section 3.4.7.1.
Main menu	IP camera main menu.
Settings area	Click the tab to open. This area lets you perform basic actions to configure your camera.
QR code	QR code for TRASSIR Cloud connection via TRASSIR Client mobile app. Read more about TRASSIR Cloud connection in section 3.4.3.13 and in TRASSIR User guide.



3.2 Preview menu

This menu lets you check and configure parameters of the camera video.

Press **Preview** to open the menu.



Setting	Desription
Menu menu	Main IP camera menu
Image settings menu	Context menu to manage image and video settings (see 3.2.1).
Current video settings	Parameters of the video displayed in current window (see 3.4.4.2).
Current video	Real-time video image transmitted by the camera.
Alarm signal	Alarm signal. Flashes in case of alarm event or motion detection (see sections 3.4.6.1 and 3.4.6.2).



CHAPTER 3. TRASSIR IP CAMERA CONFIGURATION

Setting	Desription	
Controls	IP camera video	controls:
	-	Sound on/off
	2	Enable two-way communication
	O	Save snapshot
		Record start/stop
	\odot	Zoom in
		Fullscreen

NOTE.

Image settings and controls menu are available only in Internet Explorer. Use Image settings to customize the image in any other browser (see section 3.4.4.5).



3.2.1 Image settings menu

Press in the right part of the Preview menu.

Image	
Output Mode	
Output Mode Custom Display settings 64	
Display settings	
·	64
*	50
A	50
÷	50

It lets you select and set up the following image settings modes:

- Standard;
- Bright;
- Vivid;
- Gentle;
- Custom.

You can configure the following settings manually when selecting the **Custom** mode:

- Saturation Saturation of the image. The higher the value is, the more saturated is the transmitted image.
- Brightness Brightness of the image. The higher the value is, the brighter is the image.
- Sharpness Image sharpness. The higher the value is, the sharper is the transmitted image.
- Contrast Image contrast. The higher the value is, the sharper is the transmitted image.

Read more about image settings in section 3.4.4.5.



3.3 Archive menu

This menu lets you recorded video archive.

Press Playback to open the menu.



Setting	Description
Preview window	Lets you view your video.
Calendar	The highlighted dates in the calendar indicate that these days the video was recorded to the archive. Select the required date and press Search . The fragments with the recorded videos will be displayed on the timescale.
Timeline	The red color on a timeline indicates the alarm events record (see 3.4.6), the blue color indicates permanent record to the archive. Read more about archive recording setting in section 3.4.5. Hold down the left mouse button to move the timeline. Press to zoom in and out the timeline.



CHAPTER 3. TRASSIR IP CAMERA CONFIGURATION

Setting	Description	
Controls	Video playback c	controls:
		Start playback
	Θ	Pause playback
		Stop playback
	•	Proceed to the next recorded fragment
	*	Back to the previous fragment
		Frame by frame playback
		Fullscreen
	•	Sound on/off



3.4 Configuration menu

3.4.1 Base settings menu



Press Configuration to open the menu. You will see the Base Settings section. This menu contains shortcuts to the main IP camera parameters and features:

- Time —date and time settings on IP camera (see 3.4.2.2);
- Users —configure IP camera access parameters (see 3.4.7.1);
- TCP/IP configure IP camera network interface parameters (see 3.4.3.1);
- Port —select IP camera network ports (see 3.4.3.2);
- Audio —configure audio stream (see 3.4.4.1);
- Video Stream —configure video stream (see 3.4.4.2);
- System check IP camera system status (see 3.4.2.4);
- Maintenance —perform IP camera system maintenance (see 3.4.2.5).



3.4.2 "System" menu

Click System to open the menu.

The menu consists of sections which allow to:

- General —change the device name (see section 3.4.2.5);
- Date & Time configure date and time on IP camera (see section 3.4.2.2);
- Auto Maintain configure automatic task management on IP camera (see section 3.4.2.3);
- Upgrade –upgrade IP camera hardware (see section 3.4.2.4);
- Information —check system information (see section 3.4.2.5);
- Log —check and save system log (see section 3.4.2.6).



3.4.2.1 "General" menu

Open General section in the System menu.

3	se settings
s Sj	ystem
G	eneral
D	ate & Time
A	uto maintain
U	pgrade
In	nformation
Ŀ	og
n 🔁	etwork
🗎 Vi	ideo & Audio
🔚 St	torage
🛕 Ev	vent
Se se	ecurity

You can specify the name of the device which will be displayed when it is detected in local network in the Device name field.

Press Refresh to return to the current settings.

Press Save to save the changes.


3.4.2.2 "Date & time" menu

Open the Date & Time tab in the System settings menu to set up date and time on IP camera.

TRASSIR	Live view	Playback	Configuration	👤 admin	ሳ
Base settings	Date & Time				
O _O System	Status				
General	Date	2000-01-08			
Date & Time	Time	06:24:10			
Auto maintain	Date & Time format				
Upgrade	Date format	YYYY-MM-DD	~		
Information	Time format	24H	~		
Log	Device time settings				
C Network	Time zone	GMT+03(Moscow, Riyadh)	V		
🚞 Video & Audio	Enable DST				
Storage	DST bias	60Minutes	\checkmark		
Event	Start time	January 🗸 1st	✓ Monday ✓ 02 : 00 : 00		
	End time	January 🗸 1st	✓ Monday ✓ 02 : 00 : 00		
Security	Sync with NTP server				
	NTP server	pool.ntp.org			
	Port	123			
	Update period	1	(1~5)Hours		
	Manually set	2000-01-08 06	: 18 : 20 Sync with PC time		
	Restore Default	Refresh S	ave		

The **Status** block displays date and time set on IP camera.

The Date & Time format block lets you configure IP camera date and time format.

Configure values in the Time zone setting in Device Time Settings block to set up the time zone of the IP camera.

The IP camera also features daylight saving time. In order to activate it, set Enable DST flag.

NOTE.

Daylight saving time is not used in Russian Federation.





There are three ways to set up date and time on IP camera:

• Sync with NTP Server Time

Specify data to connect to NTP server in NTP Server and Port fields. Select the time period, in hours, after which the time will synchronize on IP camera in the Update period field.

- Manual Set
 Enter current date and time into the Date and Time fields.
- Sync with PC Time

The data from the PC on which the IP camera is configured will be downloaded into the Date and Time fields.

Press **Restore default** to restore the default settings.



3.4.2.3 "Auto maintain" menu

Open the Auto maintain section in the System settings menu.

TRASSIR	Live view Playback Configuration	👤 admin 🕧 Es
Base settings	Auto maintain	
🗘 System		
General	Auto reboot	
Date & Time	Auto reboot Everyday V 02 : 00 : 00	
Auto maintain	Restore Default Refresh Save	
Upgrade	Device maintain	
Information	Reboot Reboot the device.	
Log	Restore Default Restore all of the parameters except IP to default settin	ngs.
Network	Restore Factory Settings Restore all of the parameters to factory settings.	
🔛 Video & Audio	Import / Export	_
Storage	Export your current configuration or import previously saved configuration	
🔦 Event	Import Export	
O Security		

The Auto reboot you can configure and schedule the device reboot. To do this, check the corresponding flag and select the day in the drop down list and the time in the adjacent field when the device will be rebooted.

Press Restore default to restore the default settings.

Press Save to save the changes.

Press the corresponding button in the Device maintain block to:

- Reboot reboot IP camera;
- Restore Default —reset all IP camera settings, except for network to default values (see 3.4.3.1);
- Restore Factory Settings —reset all IP camera settings to factory default, including network settings.

Use corresponding buttons in Import / Export block to save current settings configuration to a file or upload a previously saved configuration.



3.4.2.4 "Upgrade" menu

In order to update the IP camera firmware open the Upgrade section in the System settings menu.

TRASSI <mark>R</mark>	Live view	Playback	Configuration		👤 admin	し Exit
Dase settings	Upgrade					
O _O System						
General	The current model is TR-	D8123ZIR3 Please be sure that	t you select the right firmware file	ŧ.		
Date & Time	Select firmware		Browse	Upgrade		
Auto maintain						
Upgrade	(i)					
Information	1. If the upgrade failed, ple	ease inspect camera connection	and check if the correct upgrad	e file has been selected.		
Log	2. Do not POWER OFF th minutes	e unit while upgrading. The uni	will reboot during the upgrade p	rocess, the process will take ro	oughly 1 - 10	
Network						
🚞 Video & Audio						
Storage						
🔦 Event						
Security						

Press the Browse button in Upgrade block and locate the firmware file. Press Upgrade to start uploading the file.

WARNING!

Using unofficial software to update the camera may result in a denial of warranty service.

WARNING!

Update the camera software only if absolutely necessary.

WARNING!

The update may take several minutes.

Do not turn off the power or reboot the device during the update process.



3.4.2.5 "Information" menu

Open IP camera maintenance menu on Information tab in the System settings menu.

TRASSIR	Live view	Playback Con	figuration		👤 admin	() Exit
Base settings	System information					
O _o System		_				
General	System overview		System status			
Date & Time	Firmware version:	IPCAM_V4.02.09.191108	Video:	Enabled		
Auto maintain	Hardware version:	600109004-IPC-H0904	Audio:	Disabled		
Upgrade	ONVIF version:	V2.6	FTP:	Enabled		
Information	MAC address:	f0:23:b9:44:e6:7b	UPnP:	Enabled		
Log	Serial number:	D8123ZIR3M05Z0A1860155	RTSP:	Enabled		
Network	IP address:	10.13.6.46	Recording:	Enabled		
Video & Audio	Date & Time:	2000-01-08 T 06:39:34	Snapshot:	Enabled		
Storage	Uptime:	171:39:40	TCP:	Enabled		
🔦 Event	Time mode:	Sync with NTP server time	DDNS:	Disabled		
Security	CPU load:	18%	ONVIF:	Enabled		
	Copyright © TRASSIR 2018-2019 All rights reserved.					

The **System overview** block provides the following information:

Setting	Description
Firmware version	IP camera firmware version
Hardware version	IP camera hardware version
Onvif version	ONVIF protocol version
MAC address	IP camera mac address
Serial Number	IP camera serial number
IP address	Device IP address
Date & Time	Date and time set on device
Uptime	Duration of the last continuous authorization of the current user
Time mode	The time synchronization method selected on the IP camera (see 3.4.2.2)
CPU load	CPU load level

The System status block contains info on the current status of some IP camera functions.



3.4.2.6 "Log" menu

The Log section of the System settings menu contains the system log.

	Live view	Playback	Configuration	👤 admin 🕧 E
Dase settings	System log			
O _O System	2000-01-08 04:29:49 /	Access 0 webaction alarm query retval:0)	
General	2000-01-08 04:29:49 A 2000-01-08 04:29:50 A 2000-01-08 04:29:50 A	Access 0 webaction alarm query retval:0 Access 0 webaction alarm query retval:0 Access 0 webaction alarm query retval:0))	î
Date & Time	2000-01-08 04:29:50 / 2000-01-08 04:29:50 / 2000-01-08 04:29:50 /	Access 0 webaction alarm query retval: Access 0 webaction alarm query retval: Access 0 webaction alarm query retval:		
Auto maintain	2000-01-08 04:29:51 A 2000-01-08 04:29:51 A	Access 0 webaction alarm query retval: Access 0 webaction alarm query retval: Access 0 webaction alarm query retval:		
Upgrade	2000-01-08 04:29:51 A 2000-01-08 04:29:51 A 2000-01-08 04:29:51 A	Access o webaction alarm query retval: Access 0 webaction alarm query retval: Access 0 webaction alarm query retval:		
Information	2000-01-08 04:29:52 A 2000-01-08 04:29:52 A 2000-01-08 04:29:52 A	Access 0 webaction alarm query retval:0 Access 0 webaction alarm query retval:0 Access 0 webaction alarm query retval:0		
Log	2000-01-08 04:29:52 / 2000-01-08 04:29:52 / 2000-01-08 04:29:53 /	Access 0 webaction alarm query retval: (Access 0 webaction alarm query retval: (Access 0 webaction alarm query retval: (
Network	2000-01-08 04:29:53 A 2000-01-08 04:29:53 A 2000-01-08 04:29:53 A	Access 0 webaction alarm query retval: Access 0 webaction alarm query retval: Access 0 webaction alarm query retval:		
🚞 Video & Audio	2000-01-08 04:29:53 A 2000-01-08 04:29:53 A 2000-01-08 04:29:54 A	Access 0 webaction alarm query retval t Access 0 webaction alarm query retval t Access 0 webaction alarm query retval t)	
Storage	2000-01-08 04:29:54 # 2000-01-08 04:29:54 # 2000-01-08 04:29:54 #	Access 0 webaction alarm query retval:0 Access 0 webaction alarm query retval:0 Access 0 webaction alarm query retval:0)	
🔦 Event	2000-01-08 04:29:54 / 2000-01-08 04:29:55 / 2000-01-08 04:29:55 / 2000-01-08 04:29:55 /	Access 0 webaction alarm query retval: Access 0 webaction alarm query retval: Access 0 webaction alarm query retval:		
Security	$\begin{array}{c} 20000 + 1 & 60 & 64 & 22 & 55 \\ 20000 + 1 & 60 & 64 & 25 & 55 \\ 20000 + 1 & 60 & 64 & 25 & 55 \\ 20000 + 1 & 60 & 64 & 25 & 55 \\ 20000 + 1 & 60 & 64 & 25 & 55 \\ 20000 + 1 & 60 & 64 & 25 & 55 \\ 20000 + 1 & 60 & 64 & 25 & 55 \\ 20000 + 1 & 60 & 64 & 25 & 55 \\ 20000 + 1 & 60 & 64 & 55 & 55 \\ 20000 + 1 & 60 & 64 & 55 & 55 \\ 20000 + 1 & 60 & 64 & 55 & 55 \\ 20000 + 1 & 60 & 64 & 55 & 55 \\ 20000 + 1 & 60 & 64 & 55 & 55 \\ 20000 + 1 & 60 & 64 & 55 & 55 \\ 20000 + 1 & 60 & 64 & 55 & 55 \\ 20000 + 1 & 60 & 64 & 55 & 55 \\ 20000 + 1 & 60 & 64 & 55 & 55 \\ 20000 + 1 & 60 & 64 & 55 & 55 \\ 20000 + 1 & 60 & 64 & 55 & 55 \\ 20000 + 1 & 60 & 64 & 55 & 55 \\ 20000 + 1 & 60 & 64 & 55 & 55 \\ 20000 + 1 & 60 & 64 & 55 & 55 \\ 20000 + 1 & 60 & 65 & 65 \\ 2000 + 1 & 60 & 65 & 65 \\ 2000 + 1 & 60 & 65 & 65 \\ 2000 + 1$	Access of webschon allum query interval Access of webschon allum query retreat Access of webschon allum query retreat		Ļ

You can download the system log in .txt or .html formats, if necessary. To do this, press Download, specify the name and the required file format and press Save.



3.4.3 "Network" menu

Press Network to open the menu.

The menu consists of the following sections which allow to:

- TCP/IP check and configure camera network interface parameters (see section 3.4.3.1);
- Port —select network ports used by IP camera (see section 3.4.3.2);
- WIFI configure IP camera wireless network connection parameters (see section 3.4.3.3);
- PPPoE configure connection with IP camera on PPPoE protocol (see section 3.4.3.4);
- SMTP —configure parameters for sending IP messages by email (see section 3.4.3.5);
- UPnP —configure UpnP service parameters and IP camera network port forwarding (see section 3.4.3.6);
- DDNS -- configure connection to DDNS server (see section 3.4.3.7);
- **RTSP** —configure RTSP data transfer (see section 3.4.3.8);
- RTMP configure RTMP parameters (see section 3.4.3.9);
- VolP configure VolP data transfer settings (see section 3.4.3.10);
- SNMP configure camera management via SNMP(see section 3.4.3.11);
- ◆ IEEE 802.1x (see section 3.4.3.12);
- Trassir Cloud configure camera connection to <u>TRASSIR Cloud</u> cloud service (see section 3.4.3.13).



3.4.3.1 "TCP/IP" menu

The menu consists of the additional tabs which allow to:

- Network Status check statuses of IP camera current network interfaces (see 3.4.3.1.1);
- TCP/IP configure parameters of the network interfaces (see 3.4.3.1.2).

3.4.3.1.1 "Network status" tab

Open the Network status tab to check current status of the IP camera network interfaces.

דהאבביה	Live view	Playback	Configuration	
Base settings	Network status	TCP/IP		
o System	Mined actuals status			
Network	IPV4 IP address:	10 13 6 46		
тсрлр	IPV4 subnet mask:	255.255.0.0		
Port	IPV4 gateway:	10.13.0.1		
PPPoE	IPV6 IP address:			
SMTP	IPV6 gateway:			
UPnP	Domain:			
DDNS	Primary DNS:	172.16.13.43		
RTSP	Secondary DNS:			
VoIP	NTP repar	nool nto ora		
SNMP	THE AND YES.	potentpolg		
EEE 802.1x	WIFI network status			
Frassir Cloud	Connection status:	Not connected		
Video & Audio	Current IP address:			
Storage				
Event				
Security				



3.4.3.1.2 "TCP/IP" tab

Open TCP/IP tab in the Network settings menu to change current network settings.

TRASSIR	Live view 🔻	Playback	Configuration	👤 admin
Base settings	Network status	TCP/IP		
System				
Network	IPV4 network settings		IPV6 network settings	
тсрлр	Mode	ODHCP	Mode O DHCP	
Port		 Static 	Static	
WIFI	IP address:	10 . 13 . 6 . 46	IP address:	
PPPoE	Subnet mask:	255 . 255 . 0 . 0	Subnet mask: 64	1
SMTP	Gateway:	10 13 0 1	Gateway:	
UPnP	B	10 . 13 . 0 . 1		
DDNS	Primary DNS:	172 . 16 . 13 . 43		
RTSP	Secondary DNS:			
RTMP	MTU:	1500 [1280-	1500]	
VolP	Network type:	Auto		
SNMP	Restore Default	Refresh Save		
IEEE 802.1x				
Trassir Cloud				
🝟 Video & Audio				
T Storage				
🔦 Event				
Security				

Before starting the configuration, select which version of the protocol will be configured.: IPv4 or IPv6.

Setting	Description			
Mode	 Select network interface configuration type: DHCP —Configure network interface using DHCP server; Use Static IP — Configure network interface manually. Other parameters are specified for the selected configuration type. 			
IP address	he IP address that will be used when accessing the IP camera.			
Subnet mask	Mask of the subnet to which the IP camera is connected.			
Gateway	The IP address of the proxy server if a gateway is used to connect to another network (for example, the Internet).			
Primary DNS	Main DNS server address.			
Secondary DNS	Alternate DNS server IP address.			
MTU	Network card value. The default value is 1500.			
Network type	Network card speed value.			

WARNING!

We strongly recommend to change the camera IP address on the first connection to the IP camera web interface.





WARNING!

Be cautious when using a DHCP server to configure IP camera network settings. Since the DHCP server assigns the camera the first free IP address.

If there is no DHCP server in the local network, the camera will be assigned an IP address of the following type:169.254.x.x.

Press Restore default to restore the default settings.



3.4.3.2 "Port" menu

In order to configure networks ports used to access IP cameras features open the Port section.

TRASSIR	Live view Playback Configuration	👤 admin 🖞 Exit
 Baak exetings Spatian Grands Data & Time Auto maintain Uptas Information Log Water & Audio Water & Audio Water & Audio Strange Event Security Security Strangt video 	Port Port strings HTTP port 66 HTTP port 66 String port 56.4 String port 56.4 RTMP port 600 RTMP port 600 RTMP port 600 Postore strings 11.5533, Dubus 6001 RTMP post 15.553, Dubus 7001 Postore strings 11.5533, Dubus 7001 Postore Dubus 1 is dubus 11.5533, Dubus 7001	
{	Description	
Port	The number of the port used to connect browser. Default value: <mark>80</mark> Available values range: from 1 to 65535	t to IP camera web interface
Port	The number of port on which the data f RTSP protocol. Default value: 554 Available values range: from 1 to 65535	rom IP camera will be trans 5 or 554.
Port	The number of port used for IP camera i Default value: 6000 Available values range: from 1 to 65535	management. 5 or 6000.
ce port	The number of port used for IP camera i Default value: 6000 Available values range: from 1 to 65535	management. 5 or <mark>6000</mark> .
' Port	The number of port used for IP camera i Default value: 1935 Available values range: from 1 to 65535	management. 5 or 1935.

WARNING!

Network port numbers should not match.

To use ONVIF connection set the flag in the **Protocol settings** block.



NOTE.

Use the following requests to connect an IP camera and transmit video on RTSP: Main stream: rtsp://[login]:[password]@[IP address]:[rtsp port]/live/main Sub stream: rtsp://[login]:[password]@[IP address]:[rtsp port]/live/sub Third stream: rtsp://[login]:[password]@[IP address]:[rtsp port]/live/mobile Example rtsp://admin:12345@192.168.25.32:554/live/main Read more about connecting an IP camera on RTSP in "SUPPLEMENT D. Operation on RTSP and ONVIF".

Press Restore default to restore the default settings.



3.4.3.3 "WIFI" menu

WARNING!

Not supported on these device models.

3.4.3.4 "PPPoE" menu

Go to the **PPPoE** section of the **Network** settings menu to open the menu.

דדאבבאד	Live view	Playback	c c	onfiguration
Dase settings	PPPoE			
System				
i Network	Enable PPPoE			1
тсрлр	Password]
Port	Connection status	Not connected]
WIFI	IP address			
PPPoE	Pestore Default	Defresh	Save	
SMTP				
UPnP				
DDNS				
RTSP				
RTMP				
VoIP				
SNMP				
IEEE 802.1x				
Trassir Cloud				
🚞 Video & Audio				
Storage				
Event				
Security			Copyright © TR	ASSIR 2018-2019 All rights res

Setting	Description
Enable PPPoE	Set the flag to use PPPoE protocol.
User name	Enter user name.
Password	Enter password.
Connection status	Connection status on PPPoE protocol.
IP address	Device IP address.

Press Restore default to restore the default settings.





3.4.3.5 "SMTP" menu

In order to configure sending messages from IP camera by email open SMTP section of the Network settings menu.

TRASSIR	Live view Playback Configuration	👤 admin
Base settings	STITE OF THE STITE	
System		
Network		
тсрлр	SMTP server	
Port	Authentication None 🗸	
WIFI	Port 25	
PPPoE	User name	
SMTP	Password	
UPnP	Camera name	
DDNS		
RTSP	Recipient email 1 Test	
RTMP	Recipient email 2	
VoIP	Recipient email 3	
SNMP	Recipient email 4	
IEEE 802.1x	Restore Default Refresh Save	
Trassir Cloud		
Video & Audio		
Storage		
Event		
	Consider a TRACKIN 2010 2010 All determined	

Specify SMTP server parameters in **SMTP** block:

Setting	Description			
SMTP server	The name or IP address of the main SMTP server.			
Authentication	Secure data transfer protocol: None; SSL\TLS; STARTILS. 			
Port	Access port number to main SMTP server.			
User name	Main SMTP server user name.			
Password	Authorization password on main SMTP server.			
Sender	Email address rom which the messages will be sent.			
Recipient email 1-4	Input up to 4 email addresses to which messages will be sent.			



You can also set the default SMTP server, authentication and port by clicking the corresponding buttons at the top of the settings window:

האבצא <i>דו</i>	Live view	Playback	Configuration
Base settings	SMTP		
🖏 System			XI I
Network	GMail	Outlook	Yahoo! Other
тсрлр	SMTP server	smtp.gmail.com	
Port	Authentication	SSL/TLS	V
WIFI	Port	465	

Check the correctness of the configured settings by clicking Test, if necessary. If the settings are correct, the email address, specified in the Recipient email will receive a message. Otherwise an error message will be received.

Press **Restore default** to restore the default settings.

Press Save to save the changes.

3.4.3.6 "UpnP" menu

Open UpnP tab to configure automatic camera detection service in local network.

TRASSIR	Live view	Playback	Configuration			👤 admin	() Exit
Base settings	UPnP						
System							
Network	☑ Enable						
ТСРЛР	Internal po	ort External port	Protocol	Enable	Status]	
Port		1	I	1	1		
WIFI							
PPPoE							
SMTP							
UPnP							
DDNS	Add	Modify	Delete			1	
RTSP	7100	mouny	built				
RTMP							
VoIP							
SNMP							
IEEE 802.1x							
Trassir Cloud							
🞬 Video & Audio							
Storage							
ዾ Event							

The **Universal Plug&Play(UPnP)** feature is intended to search for an IP camera in local network by intelligent video surveillance systems.

WARNING!

As a rule, UpnP is required for the first IP camera detection in local network. That's why we strongly recommend to disable it after the use in order to prevent unauthorized IP camera access.



This menu also allows configuring IP camera network port forwarding. Network port forwarding is usually used to access and IP camera when it is in another local network.

Press Add to create a new rule.

Press Modify to edit the existing rule.

Press **Delete** to delete the rule.

	UPn	Р	×
Ena	able	Yes	\checkmark
Pro	tocol	TCP	\checkmark
Inte	ernal port	80	
Ext	ernal port	8080	
	Save	Cancel	

Setting	Description			
Enable	Use UpnP conversion: Yes / No.			
Protocol Data transfer protocol: TCP / UDP.				
Internal Port	Data transfer port, configured on IP camera. Available values range: from 1 to <mark>99999</mark> .			
External Port	The port on which the IP camera will be accessed from another network. Available values range: from 1 to 99999.			



3.4.3.7 "DDNS" menu

Go to the DDNS section of the Network settings menu to open the menu.

NOTE.

Prior to the configuration you should register on DDNS service providing web site ang receive all required parameters.

<i>ד</i> אבבא <i>ז</i>	Live view	Playback	Configuration	
Base settings	DDNS			
🖧 System				
Network	Enable			
ТСРЛР	Server type	3322	V	
Port	Hostname			
WIFI	Password			
PPPoE	Update interval	10		
SMTP	Restore Default	Refresh	Save	
UPnP				
DDNS				
RTSP				
RTMP				
VoIP				
SNMP				
IEEE 802.1x				
Trassir Cloud				
Video & Audio				
Storage				
👤 Event				
Security			Copyright © TRASSIR 2018-2019 A	All rights reserved.

Description				
Set the flag to use DDNS.				
 Select the server type. The following DDNS servers are supported: 3322; Oray; Dyndns; NO-IP. 				
The IP address of the network device to which the broadcast this IP camera will broadcast.				
User name registered on DDNS server.				
Password received on DDNS server.				
Connection update interval, from <mark>0</mark> to <u>99</u> .				

Press Restore default to restore the default settings.



3.4.3.8 "RTSP" menu

In order to configure IP camera streaming open RTSP section of the Network settings menu.

RASSIR	Live view Playback Configuration	nte 💆
settings	2770	
m	Ripr	
ork	RTSP information	
IP	Z Autherfolden	
	Main Stream ntp:///2.14.2.3.102.554/tve/main Sub-stream for 0727.12.0.21.02.54/tve/main	
DE	Thid stream ttp://172.16.29.102.554/twe/mobile	
p	Mutricast-SSM	
,	Ensite multicast	
s	Multicest address 224 . 0 . 0 . 1 224 0.0.1-239.255 255 254	
,	Port 10000 [10000.5000]	
p	TTL 64 [94.255]	
p	Restore Default Refresh Save	
802.1x		
sir Cloud		
& Audio		
ge		
ity		
-		
, HORO		

Setting	Description
Authentication	Set the flag to transmit IP camera sound stream on RTSP.
Main stream	Main stream RTSP link.
Sub stream	Sub stream RTSP link.
Third stream	Third stream RTSP link.
Enable Multicast	Set the flag for streaming from an IP camera to a remote network device.
Multicast address	The IP address of the network device to which this IP camera will broadcast
Port	Remote device port.
TTL	TTL value, from <mark>65</mark> to 255.

Press **Restore default** to restore the default settings.



3.4.3.9 "RTMP" menu

Go to **RTMP** section of the **Network** settings menu to open the menu.

TRASSIR	Live view	Playback	Configuration	👤 admin	фБ
Dase settings	RTMP				
🖧 System					
C Network	Enable				
тсрлр	Period1	00 : 00 : 00 24 : 0	0:00		
Port	Period2	00 : 00 : 00 00 : 00	D : 00		
WIFI	Period3	00 : 00 : 00	D : 00		
PPPoE	Period4	00 : 00 : 00 00 : 00	D : 00		
SMTP	Push type	Main stream	V		
UPnP	Push URL				
DDNS	Restore Default	Refresh	Save		
RTSP					
RTMP					
VoIP					
SNMP					
IEEE 802.1x					
Trassir Cloud					
Video & Audio					
Storage					
👤 Event					
Q. Security	Copyright © TRASSIR 2018-2019 All rights reserved.				

Setting	Description		
Enable	Set the flag to use the setting.		
Period 1-4	You can schedule the broadcasts and create up to 4 periods.		
Push type	Select the stream: Main stream or Sub stream.		
Push URL	Stream RTMP address.		

Press Restore default to restore the default settings.



3.4.3.10 "VoIP" menu

Open the VoIP section in the Network settings menu.

TRASSIR	Live view Playback Configuration	👤 admin 🕧 Exit
Base settings	VolP	
System		
Network	Enable	
тсрлр	Authentication	
Port	Server address	
WIEI	Port [1-65535]	
PPPoE	Call ID [Max 31 Characters]	
SMTP	User name [Max 31 Characters]	
UPnP	Password [Max 31 Characters]	
DDNS	Stream V	
RTSP	Max. call duration [03600s]	
RTMP	Restore Default Refresh Save	
VolP		
SNMP		
Transis Claud		
Video & Audio		
Storage		
ing	Description	
ole	Set the flag to use the setting.	
antication	Set the flag to enable authentication.	
lentication	8	
er address	IP address or name of the server.	

Call ID	Unique call ID
User name	User name.
Password	Password.
Stream type	Data transfer stream: Main stream or Sub stream.
Max.call duration	Maximal call duration, from 0 to 3600 s.

Press **Restore default** to restore the default settings.



3.4.3.11 "SNMP" menu

Go to the **SNMP** section of the **Network** settings menu.



Set the flag of corresponding SNMP version to activate the option (SNMPv1, SNMPv2 or SNMPv3) and configure parameters used by the protocol.

Press **Restore default** to restore the default settings.



3.4.3.12 "IEEE 802.1x" menu

Go to the IEEE 802.1x section of the Network settings menu to open the menu.

TRASSIR	Live view	Playback	Configuration	👤 admin	() Exit
Base settings	IFFF 802 1x				
🖧 System					
Network	Enable				
TCP/IP	Protocol	EAP-MD5	V		
Port	EAPOL version	1			
WIFI	Password				
PPPoE	Destars Defent	0.000	0		
SMTP	Restore Detault	Reliesh	Save		
UPnP					
DDNS					
RTSP					
RTMP					
VoIP					
SNMP					
IEEE 802.1x					
Trassir Cloud					
🔛 Video & Audio					
Storage					
Event					
>>6 Security			Copyright © TRASSIR 2018-2019 All rights re	iserved.	

Setting	Description
Enable	Set the flag to activate EEE 802.1x.
Protocol	Data transfer protocol.
EAPOL version	EAPOL protocol version.
User name	User name.
Password	Password.

Press **Restore default** to restore the default settings.



3.4.3.13 "Trassir Cloud" menu

Open the Trassir Cloud tab to connect the IP camera to <u>TRASSIR Cloud</u> cloud service.

Trassir Cloud	1
C Enable	
Enable Iden ferroaut	
Ide timeout 4440	
144U	
Status Connected to Trassir Cloud, Idle (v.5.0)	
Restore Default Refresh Save	
Copyright © TRASSIR 2018-2019 All rights reserved.	
Set the flag to activate the connection service.	
Set the time period during which the camera avai Upon the set time period expiration, the servic reboot your IP camera to restart the service.	lable for cloud conr e will stop. You n e
Camera cloud service connection status:	
 Unknown Status — service is not activat 	ed.
 Connected to Trassir Cloud, idle — TRAS connect your camera in the cloud. 	SIR Cloud is establi
 No connection to Trassir Cloud — no cor Connected to Trassir Cloud, working — c 	inection to TRASSIF amera is connected
is being streamed to the cloud.	
	Name Connected to Trassir Cloud, idle — TRAS connected to Trassir Cloud, idle — TRAS connected to Trassir Cloud, idle — TRAS connected to Trassir Cloud, working — consistent of the cloud.

Press Save to save the changes.

WARNING!

The final step of IP camera connection is performed directly in TRASSIR Cloud.



3.4.4 "Video & Audio" menu

Press Video & Audio to open the menu.

The menu consists of the sections which allow to:

- Audio configure audio stream (see section 3.4.4.1);
- Video Stream configure video stream (see section 3.4.4.2);
- Snapshot configure snapshot saving (see section 3.4.4.3);
- OSD configure OSD menu display on video (see section 3.4.4.4);
- Image Settings configure transmitted image parameters (see section 3.4.4.5);
- Privacy Mask —set up mask zones (see section 3.4.4.5.2);
- ROI —set up zones of interest (see section 3.4.4.7).



3.4.4.1 "Audio" menu

Go to the Audio section to set up IP camera audio stream.

	the camera model.	
Audio Sampling	Audio sampling, 8000, 16000 or 24000.	
Input volume	Input audio volume level, from 0 to 100.	
Output volume	Output audio volume level, from <mark>0</mark> to 100.	

Press Restore default to restore the default settings.



3.4.4.2 "Video" menu

The menu consists of the additional tabs which allow you to:

- Working mode —enable HDR (see section 3.4.4.2.1);
- Video —configure video stream (see section 3.4.4.2.2);
- Third stream —configure third (see section 3.4.4.2.3).

3.4.4.2.1 "Working mode" tab

Got to the Working mode tab in the Video settings menu.

NOTE.

Prior to the configuration activate WDR in the Image settings menu(see section 3.4.4.5.1).

RASSI R	Live view	Playback	Configuration	<u>9</u> admin	
ttings	Manhima mada	Midaa	Third stress		
	working mode	video	Third Stream		
*	MOR				
& Audio					
	Refresh	Save			
ibot					
settings					
ty mask					
e					
w					
video					

Set the HDR flag to activate RealWDR in the image settings.

Set the **50/60 FPS flag** to enable the ability to increase the frame rate of streams to 50/60 fps (depending on the video standard value set in the image settings).

WARNING.

RealWDR and 50/60 fps can't be activated at the same time.



3.4.4.2.2 "Video" tab

Go to the Video tab in the Video settings menu to set up IP camera video stream.

Set the **Enable** flag in the **Sub stream** block in order to activate sub stream settings.

TRASSIR	Live view	Playback	Configu	ration			👤 admin	() Exit
🔅 Basic settings		10.0						
🖏 System	working mode	Video						
Network	Main stream			Sub stream				
Video & Audio	Encode type	h264	~	✓Enable				
Audio	Resolution	1920x1080	>	Encode type	h264	~		
Addio	Profile	Main Profile	~	Resolution	352x288	~		
Video	Frame rate	25	~	Profile	Main Profile	×		
Snapshot	Bit rate type	CBR	~	Frame rate	25	×		
OSD	Refrence bit rate	[2568000] kbps		Bit rate type	CBR	~		
Image settings	Bit rate	8000		Refrence bit rate	[501000] kbps			
Privacy mask	Encode quality	The best	~	Bit rate	1000			
ROI	Key frame interval	20	~	Encode quality	The best	\checkmark		
Storage				Key frame interval	20	~		
🙎 Event	Defreek	Caua						
Security	Rendan	3876						
Video analysis								
in the state of th								
			Copyright @	TRASSIR 2020-2025 All righ	ts reserved.			

Setting	Description
Encode type	Video stream compression standard: H264 or H265.
Resolution	Video stream resolution. Main stream: 1280x720, 1280x960, 1920x1080. Sub stream: 352x288, 640x360, 640x480 or 704x576. Third stream: 352x288, 640x360, 640x480 or 704x576. Available resolutions may vary depending on camera model.
Profile	Select a video compression profile: Baseline, Main Profile, High Profile. Profiles allow to increase the compression efficiency of a video stream in different conditions. The higher the profile value is, the higher is the clarity of video transmission.
Frame rate	The interval at which frames containing one key frame will be grouped. The lower the value is, the more often the keyframe will follow.
Bitrate type	Video stream compression type: VBR / CBR.
Reference bit rate	If CBR is selected, the setting value is used as the maximum value of the compression rate of the video stream. Main stream: from 256 kbit/s to 8000 kbit/s. Sub streams: from 50 kbit/s to 1000 kbit/s.
Bit rate	Video stream compression rate value
Encode Quality	If VBR is selected the setting value will define the transmitted image quality: from 1 to 6. The higher the value is, the higher is the image quality.

You can configure the following parameters for each stream:



CHAPTER 3. TRASSIR IP CAMERA CONFIGURATION

Setting	Description
Key frame interval	Video capturing speed, the number of frames per second, captured by IP camera. The value is selected ranging from <mark>5 fps</mark> to 100 fps, depending on selected resolution. Maximum parameter value may vary depending on camera model.
Enable audio	Set the flag to switch the sound on main or sub stream.

Press Save to save the changes.

3.4.4.2.3 "Third stream" tab

Open the Third Stream tab in order to set up the camera third stream.

Notice Year Year Status Book Book </th <th></th>	
Working mode Volde Total working sc Rescalance Rescalance sc Rescalance Rescal	
example Book geo Bai * Landa Paisa Paisa * Randa Paisa Paisa	
Audada Facada Parada Facada Parada Sa	
Andrew Note // Point 9 Point 9 Read (Point) 9 <td< td=""><td></td></td<>	
Protected Protected Start Barlow (Max) Particular Units Data (Max)	
Result Result Result Result Result Result Stable Result Result	
minu ja	
Anding Andrea Constrained of Constra	
a kanga Evade ganga Orade ganga Orade ganga b Za bana Shace Jo	
γ μαλά χμ φ idees/h φ idees/h φ idees/h φ idees/h	
open Lower 1	
Optimization Description Attribute Attribute Attribute Attribute <	
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xi xido:	

The third stream is configured the same way as video stream (see section 3.4.4.2.2).

3.4.4.3 "Snapshot" menu

Go to the Snapshot section of Video & Audio settings menu to open the menu.

	דאאבאז	Live view Playback Configuration	👤 admin 🕑 Exit
Ф	Base settings	Snapshot	
00	System		
•	Network	Quality 7	
-	Video & Audio	Frame rate 1 FPS	
	Audio	Stream Main stream V	
_	Video	MJPEG-HTTP http://10.13.6.46/action/stream?subject=mjpeg&user=admin&pwd=admin	
	Snapshot	Snapshot URL http://10.13.6.46/action/snap?cam=0&user=admin&pwd=admin	
	OSD	Dashara Dafauli Dafaash Sawa	
	Image settings	Reside Delauli Reliesti Save	
	Privacy mask	The User and Password showing in the above URLs are factory default. Please use the camera's current username and password in the appropriate locations.	
	ROI		
	Storage		
	Event		
2	Security		

CHAPTER 3. TRASSIR IP CAMERA CONFIGURATION



Setting	Description	
Quality	The image quality: from 1 to 7. The higher the value is, the better is the image quality.	
Frame rate	Video capture rate, the number of frames per second captured by the IP camera. Select values ranging from <mark>1 fps</mark> to <mark>5 fps</mark> depending on the selected resolution.	
Snapshot interval	The interval between saved snapshots, from 1 to 600 s.	
Snapshot type	Select snapshot stream: Main stream or Sub stream.	
MJPEG-HTTP	RTSP video URL.	
Snapshot URL	RTSP snapshot UT RL.	

Press Restore default to restore the default settings.



3.4.4.4 OSD menu

Go to OSD section of Video & Audio menu to open the menu.



Setting	Description
Display device information	Set the flag to display system information.
Display Datetime	Set the flag to display date and time.
Display Customized Content	Set the flag to display your text on video. Enter your text into the adjacent field.
Display picture	Set the flag to display your watermark on video. <mark>Press Browse</mark> to locate the watermark image and then press <mark>Upload</mark> .

Press **Restore default** to restore the default settings.



3.4.4.5 "Image settings" menu

The menu consists of the additional tabs which allow to:

- Image —configure basic image parameters (see section 3.4.4.5.1);
- Schedule configure settings modes (see section 3.4.4.5.2);
- Day/Night —configure transition to night settings mode (see section 3.4.4.5.3).

3.4.4.5.1 "Image" tab

In order to set up image transmitted by IP camera, open the Image tab in the Image settings menu.



Setting	Description		
Video Standard	The electricity network frequency (50Hz or 60Hz) to which the IP camera is connected.		
Mirror	Image mirroring: None - disabled. Verticalvertical axis; Horizontalhorizontal axis; Horizontal&Verticalhorizontal and vertical axes. 		
Corridor mode	Enable/disable corridor mode. It rotates image to 90 degrees, changing standard horizontal orientation to vertical. Corridor mode is not compatible with Video analysis module (see sectio 3.4.8).		
Current template	 Select template to save current settings: Normal; Day; Night. Other settings will be applied to the selected template. 		



Image adjustment block



Setting	Description Select the coloring mode: • Standard; • Bright; • Vivid; • Gentle; • Custom. Saturation, brightness, sharpness and contrast settings will be applied automatically, in accordance with the selected mode. Settings are customized manually if you select the Custom mode.		
Output mode			
BLC	Enable/disable backlight compensation option on video. An adjustment slider appears when this option is enabled.		
HLC	Enable/disable highlight compensation option on video. An adjustment slider appears when this option is enabled.		
WDR	Enable/disable wide dynamic range option. An adjustment slider appears when this option is enabled. This option is effective when shooting in difficult lighting conditions when it necessary to distinguish an object from a light source (for example, a person's face against a background of a window illuminated by sunlight).		
White Balance	 Customize white balance in accordance with shooting area lighting conditions: Auto — automatic selection of white balance, while the camera itself chooses a setting at which the best video stream quality will be transmitted; Out door — automatic white balance selection adapted for outdoor shooting; Indoor — automatic white balance selection adapted for outdoor shooting; Fluorescent lamp — automatic selection of white balance adapted for shooting objects lit by a fluorescent lamp; Manual — manual white balance selection. 		



• Exposure settings block

Shutter	Select IP camera maximum shutter value.	
Exposure mode	Select exposition : Auto/Fixed.	
Setting	Description	
	Shutter 1/25(50Hz)1/30(60Hz)	
	Exposure settings Exposure mode Auto	

• Image enhancement block

	 Image enhancement 				
	Light metering	Global			
	Auto IRIS	Enable			
	Defog	Disable			
	2D NR	Enable			
	NR adjustment	50			
	3D NR	Enable			
Setting	Description				
Light metering	Exposure determi	Exposure determination type on IP camera: Global or Middle.			
Auto IRIS	Enable/disable au	Enable/disable automatic iris control.			
Defog	Enable/disable an weather condition	Enable/disable antifog feature which prevents, which prevents blurring in bad weather conditions.			
2D NR	Enable/disable 2D	NR to reduce noise.			
NR adjustment	Eliminate image n	oise. The higher the value is, the	cleaner is the image.		

Enable/disable 3D NR to reduce image noise.

3D NR



You can see the changes of the applied settings in the preview window.

Press Restore default to restore the default settings.

Press Save to save the changes.

3.4.4.5.2 "Schedule" tab

To select the image modes open the **Schedule** tab in the **Image settings** menu.

TRASSIR	Live view Playback Configuration	👤 admin Ü Exit
Base settings	Image Schedule Dav/Night	
0 ₀ System		
Network	Working mode Normal	
Video & Audio	Restore Default Refresh Save	
Audio		
Video		
Snapshot		
OSD		
Image settings		
Privacy mask		
ROI		
Storage		
Lvent		
Security		

Select the settings mode that will be applied to the image from the dropdown list in Working mode field:

- Normal activate standard settings mode;
- Day activate day mode;
- Night activate night mode;
- Timing the day mode will be activated on schedule;
- Auto day and night modes will replace each other according to the time of day.

Press Restore default to restore the default settings.

Press Save to save the changes.

3.4.4.5.3 "Day/Night" tab

In order to set day and night mode switching, as well as turning on and adjusting the IR illumination, go to the Schedule tab in the Image settings menu.

TRASSIR	Live view	Playback	Configuration			👤 admin	() Exit
Basic settings	Image	Schadula	Daviblight				
Co System	mage		buynight				
Network	Day/Night mode	Auto	*				
Video & Audio	Eight control	Picabio					
Audio	ID briebbrare	Distore					
Video	LED turn-on threshold		50				
Snapshot	LED turn off threshold		50				
OSD	IR-CUT filter	0					
Image settings		Auto	Day				
Privacy mask	Restore Default	Refresh	Save				
ROI							
Storage							
Event							
Q. Security							
A contributor							
at smart video							
				Copyright @ TRASSIR 2020 All rights reserved.			

Setting	Description		
Day/Night mode	 Select day/night operation mode: Auto — automatic activation of B/W mode, depending on the level of illumination of the shooting area; Color —B/W mode is off / Day; B&W — B/W mode is on / Night; Timing —activation of the color mode on schedule Set the time period during which the color mode will be activated in the Period setting opened field; Auto(Inter sync) — automatic activation of B / W mode, depending on the level of illumination of the shooting area. Set the illumination values at which color and black and white mode will switch in the THR. 		
Light control	Select the operating mode of the IR illumination with the selected day and night change mode: Auto, Open or Close.		
Smart IR	Enable/Disable the Smart IR function, which allows you to adjust the intensity of the camera LEDs to compensate for the distance to the object. When the function is enabled - the [Brightness level] adjustment changes to the [Maximum brightness] adjustment.		
IR brightness	Use the slider to adjust the IR brightness.		
LED turn on threshold	Use the slider to adjust the LED turning on threshold.		
LED turn off threshold	Use the slider to adjust the LED turning off threshold.		
IR-CUT Filter	Use the slider to set up the IR filter activation time.		



The cameras with LED backlighting do not have infrared sensors and use LEDs when working in low-light conditions or in the dark. The LEDs can also be used to highlight alarm events.

Image	LED	
Light control	Auto	~
Smart LED	Enable	~
Brightness level		5
Highlight only on event	Disable	~
Strobe speed	Always on	~
LED turn-on threshold	0	50
LED turn off threshold	0	50
IR-CUT filter	0	
	Auto	Day
Restore Default	Refresh	Save

Setting	Description
Light Control	 Available only for cameras featuring LED lighting. Select LED lighting mode: Open — LED lighting is on; Close — LED lighting is off; Auto — LED lighting turns on and off depending on the amount of light incoming to the camera. When selecting the Auto mode, you must turn on the Smart LED function in the settings on the Image tab (see section 3.4.4.5.1).
Smart LED	Enable / Disable automatic control of lighting intensity depending on the distance to the object.
Brightness level	Manual LED backlight brightness adjustment.
Highlight only on event	Turn the backlight on/off when an alarm event is detected.
Strobe speed	Choose the frequency at which the strobe will operate.
LED turn-on threshold	Select the lighting level at which the strobe will automatically turn on.
LED turn off threshold	Select the lighting level at which the strobe will automatically turn off.

Press Restore default to restore the default settings.


3.4.4.6 "Privacy mask" menu

Open Privacy Mask section to set up masking zones on you IP camera.



Select an area on video that you want to hide, and use the left mouse button to draw a masking zone. Ue masking zones to hide some areas on video, for example, the dial pad of the combination lock.

NOTE.

You can customize up to 4 masking zones.

WARNING!

Masking zones are superimposed on the transmitted video stream, that is, they are recorded in the archive and superimposed on the image snapshots. The image hidden under such zones will be impossible to view even after disabling masking zones.

Press **Restore default** to restore the default settings.



3.4.4.7 "ROI" menu

Image: Control of Con

Open ROI section in order to customize zones of interest.

ROI zones or zones of interest allow you to highlight areas of the image that will be recorded with improved image quality settings. In this case, the areas outside the zones will be saved with poorer image quality parameters.

NOTE.

You can create up to 4 zones of interest.

To define the zones, left click on image and select one or several zones of interest.

Press Clear to reset the settings.



3.4.5 "Storage" menu

The menu consists of the sections which allow to:

- Local settings —set up local archive recording (see section 3.4.5.1);
- Disk —check the archive state and configure archive recording to disk (see section 3.4.5.2);
- FTP —set up archive recording to FTP server (see section 3.4.5.3);
- NFS —set up archive recording to NFS server (see section 3.4.5.4);
- Prerecord settings —configure a time period before the event detection to record (see section 3.4.5.5);
- Schedule schedule data recording to the archive (see section 3.4.5.6).

3.4.5.1 "Local settings" menu

Go to the Local settings section of the Storage menu to open.

	TRASSIR	Live view	Playback	Configuration	👤 admin 🕛 Exit
00	Basic settings System	Local settings			
۲	Network	Live record	C:\Users\User\Documents	Browse	
—	Video & Audio	Live snapshot	D:\Screenshots	Browse	
	Storage	Snapshot type	● BMP ○ JPG		
	Local settings	Restore Default	Save		
	Disk				
	FTP				
	NFS				
	Prerecord settings				
۵	Schedule				
-	Event				
10	security				
a	Video Analytics				
			Copyr	ight © TRASSIR 2018-2019 All rights reserved.	

Click Browse...to set video and snapshot saving path.

Press Restore default to restore the default settings.



3.4.5.2 "Disk" menu

Open the Storage disk tab in the Disk settings menu.



This menu lets you check status of the built-in archive and the amount of free space on it, as well as format the built-in archive to use IP camera.

NOTE.

Format built-in storage upon the first connection of memory card or USBHDD by pressing Format.



3.4.5.3 "FTP" menu

Go the FTP section of the Storage settings menu to open the menu.

TRASSIR	Live view	Playback	Configuration	👤 admin	ψE
Basic settings	FTP				
5 System					
Network	Server address				
Video & Audio	Port	21	(1~65535)		
Storage	User name				
Local settings	Password				
Disk	Remote path				
FTP	Breakpoint resume	-			
NFS					
Prerecord settings	Restore Default	Test FTP	Save		
Schedule					
Event					
Security					
Video Analytics					
			Conviciant @ TDASSID 2019 2019 All sights recorded		

Setting	Description
Server Address	Name or IP address of FTP server.
Server Port	FTP server access port number.
Username	User name to authorize on FTP server.
Password	Password to authorize on FTP server
Remote Path	The directory where messages from the camera will be saved. The default one is: FTP server root directory.
Breakpoint Resume	Set the flag to resume uploading the file to FTP server in case of disconnection.

Upon configuration completion click **Test FTP** to establish test connection.

Press **Restore default** to restore the default settings.



3.4.5.4 "NFS" menu

Go to the NFS section of the Storage settings menu to open the menu.

TRASSIR	Live view	Playback	Configuration	🧕 admin	() Exi
Basic settings	NEC				
System	N°3				
Network	Enable				
Video & Audio	Server address				
Storage	Remote path				
Local settings	Status	Unmounted			
Disk					
FTP	Restore Default	Refresh	Save		
NFS					
Prerecord settings					
Schedule					
Event					
Security					
Video Analytics					
			Copyright © TRASSIR 2018-2019 All rights reserved.		

Setting	Description
Enable	Set the flag to activate the setting.
Server address	Remote server address.
Remote path	Archive saving path.
Status	Server connection status.

Press **Restore default** to restore the default settings.



3.4.5.5 "Prerecord settings" menu

This menu allows you to configure the time period before the event detection that will be recorded to the archive.

Preced testing Nace Nace Nace Nace Data Data Data <tr< th=""><th>👤 admi</th><th>admin</th><th></th></tr<>	👤 admi	admin	
time set Audio Second			
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Back Reduce Default Reduce Finance defaults			
17 E E E E E E E E E E E E E E E E E E E			
Side Side Side Vet Autor Side			
Nexcode Neighting			
chandade veet cacaby anar video			
vent carding c			
xcathy			
xxxy			

Setting	Description
Pre-record	The time period from 0 to $3~{\rm s}$ before the event triggering during which the video will be triggering.
Stream	Select stream to record to the archive: Main stream or Sub stream.
Destination	Specify the archive saving path: SD or NFS.
Overwrite	Set the flag to overwrite the built-in storage in case of overflow. In this case, older files will be overwritten with new ones.
Record package	Maximal size of the recorded file: 3min, 5min or 10min.



3.4.5.6 "Schedule" menu

The menu consists of the additional tabs which allow to:

- Record configure video record to the archive (see section 3.4.5.6.1);
- Snapshot —configure snapshot saving (see section 3.4.5.6.2);
- FTP upload —configure archive uploading to FTP (see section 3.4.5.6.3).

3.4.5.6.1 "Record" tab

In order to schedule data recording to the archive open the **Record** tab in the **Schedule** settings menu.

I storight	TRASSIR	Live view	Playback	Configuration	1	L admin	Ċ
Number Image: Control of	Basic settings	Papard	Reserved	ETD uplead			
Kende Ende Value Reversion Stand Reversion Los data Stand 104 Stand 105 Stand 104 Stand 105 Stand 105 Stand 106 Stand 107 Stand 108 Stand 109 Stand 100 Stand	System	Record	anapariot	r ir upidad			
Variability Televine Instrume Televine Instrume Televine Instrume Televine Instrume Televine Instrume Televine	Network	Catachia	Poly de la				
Brand Results Odult Result Lod seminal Disk Brand Processor Station Station For Station	Video & Audio	schedue	Schedule				
icad atmapiana Tra Canada Can	Storage	Restore Default	Refresh	Same			
Data TFT Max Max Sector New Arrises	Local settings						
TP Status	Disk						
Yead Mexina Maingo Mexina Maingo Mexina Maingo	FTP						
hereord and and and and and and and and and an	NF 5						
Skoladi Skolad	Prerecord settings						
twit scanty Stantyce	Schedule						
	Event						
Viere Auslyins	Security						
	Video Analytics						

Set the **Enable** flag to activate the setting.

Click the Schedule button to set the schedule for recording video to the archive.



In the opened window select how the recording will be carried out by putting flags in the corresponding fields:

- ◆ 7*24 Hours there will be permanent record to the archive;
- Schedule recordings will be carried out on the selected dates and time periods.

	Schedule	
✓7*24 Hours	Schedule	
Sunday Monday Tuesday Wednesday Thursday		Setup Setup Setup Setup Setup
Saturday		Setup
Select all Period 1: Period 2: Period 3: Period 4: Period 5:	Sunday Monday Tuesday Wednesday Thursday Friday Saturday 00:00:00 00:00:00 00:00:00 Saturday 00:00:00 00:00:00 Saturday Saturday	

In order to set the time intervals, click **Setup** opposite to the desired day of the week and set up to six time intervals, indicating the start and end times.

Set the flags in front of the required days of the week or set the Select all flag in order to copy aettings to the other days.

Press Restore default to restore the default settings.



3.4.5.6.2 "Snapshot" tab

Go to the **Snapshot** tab in the **Schedule** settings menu to open the menu.

TRASSIR	Live view	Playback	Configuration
Basic settings	Record	Snanshot	ETP upload
System	-	onapanot	i ii upiouu
Network	Enable Destination Dis	k	~
🗎 Video & Audio	Schedule	Schedule	
T Storage	Postoro Dofault	Pofrash	Savo
Local settings	Restore Delauti	Keirean	Javo
Disk			
FTP			
NFS			
Prerecord settings			
Schedule			

Set the **Enable** flag to activate the setting.

Set snapshot saving path in the **Destination** field:

- SD save to SD card;
- NFS save to NFS server.

The snapshot saving schedule is configured the same way as on the **Record** tab (see section 3.4.5.6.1).

NOTE.

If the Snapshot flag is set in the event settings(see section 3.4.6) the snaphot will be saved regardless of the schedule settings.

You can set up the interval between the saved snapshots in the Snapshot section(see 3.4.4.3).



3.4.5.6.3 "FTP Upload" tab

Open FTP Upload in the Schedule settings menu to set up archive upload to FTP.

דאאבא	Live view	Playback	Configuration
Basic settings	Record	Snapshot	FTP upload
😋 System			
Network	C Schedule		
Video & Audio	Olisable		
Torage	Restore Default	Refresh	Save
Local settings			
Disk			
FTP			
NES			
Prerecord settings			
Schedule			

Configure FTP upload settings:

- ◆ 7*24 Hours —upload will be performed permanently;
- Schedule upload will be performed on schedule;
- **Disable** FTP upload will not be performed.

NOTE.

The snapshot FTP upload schedule is configured the same way as on the Record and Snapshot tabs (see sections 3.4.5.6.1 and 3.4.5.6.2).

NOTE.

If the FTP upload flag is set in the event settings (see section 3.4.6) the upload will be performed regardless of the schedule settings.



3.4.6 "Event" menu

Open the **Event** menu.

The menu consists of the following sections which allow to:

- Motion Detection —set up motion detector (see section 3.4.6.1);
- I/O alarm —set up alarm inputs/outputs (see section 3.4.6.2);
- PIR —configure PIR (see section 3.4.6.3);
- Abnormality set up reactions in case of the camera malfunctions (see section 3.4.6.4).



3.4.6.1 "Motion detector" menu

The menu consists of the following sections which allow to:

- Detection zone set up motion detector zones (see section 3.4.6.1.1);
- Schedule —set up motion detector schedule (see section 3.4.6.1.2);
- Action —set up reactions for motion detector triggering (see section 3.4.6.1.3).

3.4.6.1.1 "Detection zone" tab

In order to set up shooting areas in which the reaction will trigger upon motion detection, got to the **Detection zone** in the **Motion Detection** settings menu.



NOTE.

You can create up to 4 detection zones.

In order to define the motion detector zones, left click on the image and highlight the zones in which motion detection is required.

Use Sensitivity parameter to customize motion detector sensitivity in all created zones. The higher the value is, the more sensitive is the detector.

Set the detector confidence level from 0 to 100 in the Threshold parameter. The higher the value is, the lower is the probability of false triggerings, especially when working outdoors.

Press Full screen, to select the entire shooting area as the detection zone.

Press Remove all to remove all created zones.



3.4.6.1.2 "Schedule" tab

Go to the Schedule tab to open the menu.

TRASSIR	Live view Playback Configuration	👤 admin 🔱 E
Base settings	Detection zone Schedule Action	
Co System	Tripper interval Min. time 1 [Max 200 Seconds]	
Network	· · · · · · · · · · · · · · · · · · ·	
Video & Audio	© 124 Hours	
Storage	⊖ Schedule	
🚊 Event	O Disable	
Event server	Restore Default Refresh Save	
Motion detection		

Specify time which will define the event occurrence from 0 to 300 s in the Trigger Interval Min. time field. If an alarm event lasts less than the specified time, it is considered not to have occurred.

In the lower block select schedule for recording to the built-in storage (see section 3.4.5.1):

- ◆ 7*24 hours Record —the record will be performed permanently;
- Schedule Record —the video stream will be recorded on schedule;
- Disable —disable option.

NOTE.

If the Record flag is set in the event settings (see section 3.4.6) the record will be performed regardless of the schedule settings.

Press Restore default to restore the default settings.



3.4.6.1.3 "Action" tab

In order to set up reaction on motion detector triggering go to the Action tab in Motion detection settings menu.

TRASSIR	Live view	Playback	Configuration		👤 admin
Basic settings					
System	Detection zone	Schedule	Action		
Natural	Alarm output				
Network	Record				
Video & Audio	FTP				
Storage	Send email				
Event	Snapshot				
	Audio out				
Motion detection	Restore Default	Refresh	Save		
I/O alarm					
PIR					
Abnormality					
Security					
Video Analytics					
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Select one or several actions that the IP camera will perform upon motion detection:

- ◆ Alarm output —close alarm output.(see section. 3.4.6.2).
- Record —record video to the archive. See description of the schedule settings in 3.4.6.1.2.
- FTP upload video file or image to FTP server. See description of FTP server settings in 3.4.5.3.
- To send email. Email settings are described in 3.4.3.5.
- Snapshot —save snapshot to the archive (see section 3.4.4.3).
- Audio. Audio settings are described in 3.4.4.1.

Press **Restore default** to restore the default settings.



3.4.6.2 "I/O Alarm" menu

The menu consists of the additional tabs which allow to:

- I/O Alarm configure alarm inputs and outputs (see section 3.4.6.2.1);
- Schedule —set up schedule of alarm inputs and outputs operation (see section 3.4.6.2.2);
- Action —set up reactions to the alarm input and output triggering (see section 3.4.6.2.3).

3.4.6.2.1 "I/O Alarm" tab

Go to the I/O Alarm tab to open the menu.

TRASSIR	Live view	Playback	Configuration	👤 admin
Basic settings				
System	I/O alarm	Schedule	Action	
Network	Trigger level:	Low		
Video & Audio	Alarm output level:	Low		
Storage	Current input:	Low	•	
Event	Current output:	Close	>	
Motion detection	Restore Default	Refresh	Save	
VO alarm				
PIR				
Abnormality				
Security				
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Setting	Description
Trigger level	High —an alarm event will occur when 5V voltage appears on the contacts of the alarm input. Low —an alarm event will occur when the 5V voltage on the contacts of the alarm input disappears.
Alarm output level	High —when an alarm event occurs, up to 5V voltage will be applied to the contacts of the alarm output . Low —when an alarm event occurs, the alarm output contacts will be de- energized .
Switching to the night mode	Select Enable to let the camera automatically switch to black and white mode when the status of the alarm input changes.
Current input	Current alarm input state.
Current output	Select the camera alarm output state that corresponds to the alarm event occurence: Low; High; Schedule - The alarm input will operate according to the schedule; Close - The alarm input is turned off.

Press Restore default to restore the default settings.



Press Save to save the changes.

3.4.6.2.2 "Schedule" tab

Go to the Schedule tab in the I/O Alarm settings menu to set up alarm inputs and outputs schedule.

TRASSIR	Live view	Playback	Configuration	👤 admin
Basic settings				
System	I/O alarm	Schedule	Action	
Network	Trigger interval Min. time 10		K [Max 300 Seconds]	
Video & Audio	OSchedule			
Storage	ODisable			
Event	Restore Default	Refresh	Save	
Motion detection				
⊮O alarm				
PIR				
Abnormality				
Security				
•				

NOTE.

Alarm inputs and outputs operation schedule is configured the same way as in Motion detection section (see section 3.4.6.1.2).



3.4.6.2.3 "Action" tab

Go to the Action tab in the I/O Alarm settings menu in order to set up reactions on alam inputs and outputs triggering.

TRASSIR	Live view	Playback	Configuration	👤 admin
Basic settings	UC alarm	Patrodate	Andres	
System	I/O alarm	Schedule	Action	
Network	Alarm output			
Video & Audio				
Storage	Send email			
Event	Snapshot			
Notion detection	Audio out			
I/O alarm	Restore Default	Refresh	Save	
PIR)			
Abnormality				
Security				
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NOTE.

The reactions on alarm inputs and outputs triggering are configured the same way as in Motion detection section (see 3.4.6.2.3).



3.4.6.3 "PIR" menu

WARNING!

Not supported on these devices.

3.4.6.4 "Abnormality" menu

The menu consists of the additional tabs which allow to:

- Network disconnection —configure actions in case of network disconnection (see section 3.4.6.4.1);
- Device startup configure action on the device start (see section 3.4.6.4.2).

3.4.6.4.1 "Network disconnection" tab

In order to set up reactions in case of device connection loss, go to the Network disconnection tab in the Abnormality settings menu.

דגאבאז א	Live view	Playback	Configuration	👤 admin	q
🔅 Base settings	Network status	TCP/IP			Ē
System	Wired network status				
Network	IPV4 IP address:	10.13.6.46			
тсрлр	IPV4 subnet mask:	255.255.0.0			
Port	IPV4 gateway:	10.13.0.1			
PPPoE	IPV6 IP address:				
SMTP	IPV6 gateway:				
UPnP	Domain				
DDNS	Domain.				
RTSP	Primary DNS:	172.16.13.43			
RTMP	Secondary DNS:				
VoIP	NTP server:	pool.ntp.org			
SNMP	WIFI network status				
IEEE 802.1x	Connection status:	Not connected			
Trassir Cloud	Current IP address:				
Storage					
Event					
Security					

Set the **Enable** flag to activate the setting.

Specify time which will determine the event occurrence, from 0 to 300 seconds in the Trigger Interval Min. time field. If an alarm event lasts less than the specified time, then it is considered not to have occurred.



Select one or several reactions on camera connection loss by checking the corresponding boxes:

- Alarm output —close alarm output (see 3.4.6.2).
- Record —record video to the archive. You can see record settings description in 3.4.6.1.2.
- **Snapshot** —save snapshot to the archive (see 3.4.4.3).
- Audio out Enable alarm sound. You can see audio settings description in 3.4.4.1.

Press **Restore default** to restore the default settings.

Press Save to save the changes.

3.4.6.4.2 "Device startup" tab

In order to set up reactions on device startup go to the **Device startup** tab in the **Abnormality** settings menu.

TRASSIR	Live view Playback Configuration	👤 admi
Basic settings	Natural disconnection Davis status	
System	network unsconnection	
Network	C Enable	
Video & Audio	Trigger interval Min. time 10 [Max 300 Seconds]	
Storage		
Event		
Motion detection		
I/O alarm	Restore Default Refresh Save	
PIR		
Abnormality		
Admonthanty		
Security		
Video Analytics		
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Set the Enable flag to activate the setting.

Select one or several reactions on the camera startup by checking the corresponding boxes

NOTE.

The reactions are configured the same way as in Motion detection section (see 3.4.6.2.3).



3.4.7 "Security" menu

Open the Security menu.

The menu consists of the following sections which allow to:

- Manage Users —configure IP camera access parameters (see section 3.4.7.1);
- IP Filter —restrict access to the IP camera from one or several network devices (see section 3.4.7.2);
- Telnet —set up Telnet connection (see section 3.4.7.3).

3.4.7.1 "Manage users" menu

Go to the Manage Users section in the Security settings menu.

TRASSIR	Live view V Playbac	k Configuration		
e settings	Manage users			
ystem				
Network	No.	User name	Group name	
Video & Audio	1	admin	Administrator	
Storage	2	operator	Operator	
Event				
Security				
Manage users				
IP filter	Add Modify	Delete		
elnet				
		Copyright © TR/	SSIR 2018-2019 All rights reserved.	

This group of settings lets you create a new user, set up access password and customize user access to the IP camera settings.

In order to modify user settings or delete a user select it from the list and press Modify or Delete correspondingly.

NOTE.

There is already a user with the Administrator rights in the IP camera settings by default.

WARNING!

We strongly recommend to change the Administrator rights upon first connection to the IP camera web interface.



Press Add to create a new user.

User name	[Max 32 Characters
Password	[Max 15 Characters
Confirm password	
Group name	Administrator 🔽
Authority list	Select all
	Preview
	Playback
	🗌 Maintain
	□ Storage
	🗆 PTZ 🗸

Setting	Description
Username	User name to authorize.
Password	Password to the IP camera web interface.
Confirm Password	Enter IP camera web interface password again.
User Group	 User group to which current user belongs to: Administrator — full user; Operator — user with operator rights; Viewer — user with the rights to view log only.
Authority list	Set the corresponding flags to set up user rights.

Uncheck the corresponding boxes to change the current user authority list.



3.4.7.2 "IP filter" menu

WARNING!

Before starting to configure IP filtering make sure the IP address of the PC where the IP camera is being set up is in the address white list. Otherwise access to the further IP camera settings will be blocked.

Go to the IP Filter section in the Security settings menu to open the menu.

TRASSIR	Live view Playback Configuration	👤 admin	() Exit
Base settings	IP filter		
🖧 System			
Network	✓ Enable		
Video & Audio	IP address filter type Allowed		
Storage	Start IP End IP Alias		
🙎 Event			
Security			
Manage users			
IP filter			
Telnet			
	Add Modify Delete		
	Copyright © TRASSIR 2018-2019 All rights reserved.		

Use IP filtering settings to restrict access to the IP camera from one or several network devices.

Select Enable IP Filtering to activate the setting.



In order to add the IP address to the allowed or forbidden addresses list select Allowed or Forbidden, respectively, in the IP address filter type block and press Add.

Alias				
Start IP	0	. 0	. 0	. 0
End IP	0	. 0	. 0	. 0
Subnet mask	255	. 255	. 255	. 0

The IP Filter window will open. Enter the Start IP and End IP of the range into the corresponding fields. Enter the name of the IP address range in the Alias field.

Press Save to save the changes.

In order to modify or delete the created filter select it from the list and press Modify or Delete correspondingly.



3.4.7.3 "Telnet" menu

WARNING!

It is recommended to enable this feature only in case of emergency, since when it is turned on, the device may not be protected from attacks from the network.

The Telnet feature may be necessary to remotely connect to the camera through the service console.

Open the **Telnet** section in the **Security** settings menu to configure connection via Telnet.

	77295517	Live view Playback Configuration	👱 adanta	e e
¢	Base settings	Telnet		
00	System			
-	Network	Attention! Enabling this function will seave the device more vulnerable to network attacks.		
	Video & Audio	Eradow		
]	Storage	Restore Default Refresh Save		
¢.	Event			
94	Security			
	Manage users			
	IP filter			
	Telnet			
		Copyright © TRABBIN 2018-2019 All rights reserved.		

Set the **Enable** flag to allow remote connection to the camera.

Press **Restore default** to restore the default settings.





3.4.8 "Video analysis" menu

Open Video analysis menu. It consists of the following sections which allow to:

- Facial detection —configure main facial detection parameters (see section 3.4.8.1);
- People Counting —set up counting the number of people crossing the board in one of the preset directions (see section 3.4.8.2);
- Human Detection —configure human detection (see section 3.4.8.3);
- Vehicle Detection —set up vehicle detection (see section 3.4.8.4);
- Line-crossing Detection —configure detection of people crossing the line in one of the preset directions (see section 3.4.8.5);
- Intrusion Detection —configure detection of intrusion to the preset area (see section 3.4.8.6);
- Loitering —set up detection of loitering people in the preset area (see section 3.4.8.7).



3.4.8.1 "Facial detection" menu

This menu allows configuring main facial detection and recognition parameters.

Go to Facial Detection section in the Video analysis to open.

The menu consists of additional tabs which allows to:

- Basic settings —configure basic facial detection parameters (see 3.4.8.1.1);
- Schedule —set up detector schedule (see 3.4.8.1.2);
- Action —set up actions upon facial detection (see 3.4.8.1.3).



3.4.8.1.1 "Basic settings" tab

Open the **Basic settings** tab in the **Facial detection** settings menu in order to set up basic detection parameters.



Setting	Description
Show the frame	Set the flag to highlight recognized people on video with a frame.
Show the face ID	Set the flag to display unique ID on a recognized person on video.
Face confidence	Configure detector confidence threshold. The higher the value is, the lesser is the probability of false positives.
Working mode	 Detector working mode: Optimal face capture with specified time intervals —the detector will search for faces within a set period of time. Optimal face capture in a specified area —the detector will search for faces in a specified zone.
Update interval	The time period, after which the detector restarts searching for faces in the frame, in seconds, for Optimal face capture with specified time intervals working mode.
Min stay time	Set the minimal time of a person in the frame, in seconds, after which the detector will be triggered, for Optimal face capture in a specified area working mode.
Capture delay time	The time period, recorded upon the detector triggering, for Optimal face capture in a specified area working mode.
Ignore faces	Set the flag for detector to ignore the objects of specified size: Bigger than zone W*H or Smaller than zone W*H. Press Setup to save changes.
Snapshot quality	Select the snapshot quality.
Keep the original proposition of the face frame	Set the flag to keep the proportions of the recognized face when you increase the size of the frame.
Size of the face frame	Set the frame size in relation to the recognized face.

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Setting	Description
Mask confidence	Set the threshold of confidence that there is a protective mask on a recognized face. The higher the value is, the lower is the probability of false alarms.
Mark the face without wearing mask	Set the flag for the detector to detect and highlight faces without protective mask on video.

Press **Restore Default** to restore the default settings.

Press Save to save the changes.

3.4.8.1.2 "Schedule" tab

Open the Schedule tab in the Facial Detection settings menu to set up facial detection schedule.

NOTE.

The facial detection schedule is configured the same way as on the Schedule tab in Motion detection section (see section 3.4.6.1.2).

3.4.8.1.3 "Action" tab

In order to set up reactions on human detection open the Action tab in the Facial detection settings menu.

NOTE.

The reactions upon the detector triggering are configured the same way as on the Action tab in the Motion detection settings menu (see section 3.4.6.1.3).



3.4.8.2 "People counting" menu

This menu allows configuring the counting of the amount of people crossing the border in one of the preset direction.

Go to the People Counting section in the Video analysis menu to open.

The section consists of the following tabs which allow to:

- Basic settings —set up border for people counting (see section 3.4.8.2.1);
- Report to FTP —configure report to FTP sending (see section 3.4.8.2.2);
- Quota for report —check the statistics of the reports sent (see section 3.4.8.2.3).

3.4.8.2.1 "Basic settings" tab

In order to set up border for counting people open the **Basic settings** tab in the **People Counting** settings menu.



Select Enable from the dropdown menu in order to activate the setting.

Left-click on the preview window and draw the border. Only one border can be drawn.

Upon the border crossing the amount of crossings in both directions will be displayed on the preview window and the alarm signal will blink, as well (see section 3.2).



There is a **Reset counters** field that lets you select the way to reset the border crossing counter:

Setting	Description			
Auto Reset	Set the flag for automatic reset. Set the day and time of the reset in the adjacent fields.			
Manual reset	Press the button to reset the counter manually.			



Press Clear to remove the border.

Press **Restore Default** to restore the default settings.

Press Save to save the changes.

3.4.8.2.2 "Report to FTP" tab

NOTE.

You can read about FTP settings in section 3.4.5.3.

Open the **Report to FTP** tab in the **People Counting** settings menu in order to configure people counting report settings.

Set the **Enable** value in the **Report to FTP** dropdown list, in order to use the setting, and select the wae to send the report:

Basic settings	Report to F	TP	Quota for report
Report sending to FTP	Enable	~	
 Once a day Time for report sending 	23 : 59 : 59		
 Schedule Attempts of report sending 	3	~	
Restore Default	Refresh	Save	
			_

Setting	Description				
Once a day	Set the flag to send the report once a day and select the time of sending in the box below.				
Time for report sending	Set up time of report sending.				
Attempts of report sending	Set up number of attempts of the report sending, from 1 to 5.				



Report sending to FTP	Enable	\checkmark			
Once a day Schedule					
1 2 3 4 5 6 7	8 9 10 11 12 13 14 15	16 17 18 19 20 21 22 2	3 24		
			Select all	Clear	
Attempts of report sending	3	V			
Restore Default	Refresh	Save			

Setting	Description			
Schedule	Set the flag to send the report by schedule. Set the sending time period in the opened menu.			
Attempts of report sending	Set up number of attempts of the report sending, from 1 to 5 .			

Press **Restore Default** to restore the default settings.



3.4.8.2.3 "Quota for Report" tab

In order to check the status of the sent reports open the Quota for report tab in the People Counting settings menu.

Live view Phyback Configuration testings Basic settings Report to FTP Quota for report work Red Attack Exect settings To 2020-09-16 with To 2020-09-16 File Report sending time Upload satus Export with man Detection Report sending time Upload satus Export with send Detection Report sending time Upload satus Export								
de settings term work so & Audio rage ant ant sonarysis operCounting man: Detection terring Basic settings Report to PTP Quota for report 2020.09.20 To 2020.09.16 Tile Report sending time Upload status Export to PT Preport sending time Upload status Export to PT Pre		TRASSIR	Live view	Playback	Configuratio	on		
tem work so & Audio rage set ant ant conta for report 2020.08-20 To 2020.09-16 Control File Report sending time Upload status Export to PC so anyons control File Report sending time Upload status Export to PC to Control File C	В	asic settings	Basic setti	ings Re	port to FTP	Quota for report		
work it is a construction in the image of t		System	Quote for report: 20	020-08-20 To	2020-09-16		Search	Search
e of A dudy rage rage rat rat rage rat		Network	File	Report sending	time Unload status	Export to PC	 Export to ETP	Export to ETP
rage met and the second		Video & Audio		Report schaing	unic picto status	Exportorio	 Capartorn	Caport to T II
nt consult of the second of th	1	Storage						^
suty oc and/si optication paper and betterion he crossing Detection hering		Event						
co analysis optic Carating man Detection nusion Detection nusion Detection Rening	2	Security						
ople Counting man Detection ex-crossing Detection rusion Detection hering		Video analysis						
man Detection a crossing Detection tusion Detection tering		People Counting						~
e crossing Detection rusion Detection Itering		Human Detection						
Itering		Line-crossing Detection						
Teering		Intrusion Detection						
Consciption (7) TEASSER 2016-2020 All scheme researed		Loitering						
Conside © TRASSID 2010-2020 All sides researed								
Council & TRASSP 2015-2020 & diche second								
Constable 10 T245502 2018-2020 AB rights researced								
Consciols ID TD ASSID 2018-2020 AB dollar reserved								
Consolution TD ASSID 2018-2020 All datas seasoned								
Consider & TDASSID 2018;2020; AB risks researced								
Consider & TEASSE 2018,7020 & research								
Convided @ TBASSID 2018-2020 All rights reserved			<i>.</i>					
1 ///////// 11 ////////////////////////					Conscient © TDASSID 2019	2020 All rights researed		

Set the time range for which you would like to check the reports in the Quota for report and To fields.

The information will be presented as the list of files. You can save the report to your PC or FTP by pressing Export.



3.4.8.3 "Human Detection" menu

This menu allows you to set up human detection. Go to the Human Detection in the Video analysis menu to open.

The menu consists of the additional tab which allow to:

- **Basic settings** —configure basic detector settings (see section 3.4.8.3.1);
- Schedule —set up detector schedule (see section 3.4.8.3.2);
- Action configure actions on human detection (see section 3.4.8.3.3).



3.4.8.3.1 "Basic settings" tab

Open the Basic settings tab in the Human Detection settings menu to set up human detector.



Setting	Description
Confidence	Configure detector confidence threshold. The higher the value is, the lesser is the probability of false positives.
Target mask	Set the flag to highlight the recognized people on video with a frame.
Show ID	Set the flag to display a unique identifier above each recognized person.

Press Restore Default to restore the default settings.


3.4.8.3.2 "Schedule" tab

Open the Schedule tab in the Human Detection settings menu to set up human detection schedule.

NOTE.

The human detector schedule is configured the same way as on the Schedule tab in Motion detection section (see section 3.4.6.1.2).

3.4.8.3.3 "Action" tab

In order to set up reactions on human detection open the Action tab in the Human detection settings menu.

NOTE.

The reactions upon the detector triggering are configured the same way as on the Action B tab in the Motion detection settings menu (see section 3.4.6.1.3).



3.4.8.4 "Vehicle detection" menu

The menu allows you to set up vehicle detection.

Go to Vehicle Detection of the Video analysis menu to open.

The menu consists of the additional tabs which allows you to:

- **Basic settings** –configure basic detector settings (see 3.4.8.4.1);
- Schedule —configure detector schedule (see 3.4.8.4.2);
- Action —set up actions upon vehicle detection (see 3.4.8.4.3).

3.4.8.4.1 "Basic settings" tab

Open the Basic settings tab in the Vehicle Detection settings menu to set up vehicle detector.

TRASSIR	Live view	×.	Playback	Contiguration	👤 admin 🖉
Basic settings					
System	Basic setting	95	Schedule	Action	
Network	Non-Contraction of the second		THE LET THE LET	The real real real of the real	
Video & Audio	IN S IN DUCK		95 15 15 IR	Target mask	
Storage	and stands	a free of	a a m		
Event	S STATE OF STATE		28		
Country (and the		1.71 9	and the second sec	
security	N.	14			
Smart video	Contra Co	ast			
Facial detection	1 and 1		7	The state of the s	
People counting		0031		Contraction of the second seco	
Vahicla detection		CIUS	d The		
Line-crossing detection					
Intrusion detection	Char		Datrach	Restore Default Store	
Loitering	U.U.		renesi	Name Denner Oure	

Use left mouse button to define a detection zone on video. You can use the entire area as a zone, to do this press Full screen.

Setting	Description
SettingDescriptionConfidenceConfigure detector confidence threshold. The higher the value is, the probability of false positives.Target maskSet the flag to highlight the recognized vehicle on video with a fraShow IDSet the flag to display a unique identifier above each recognized vehicle on video	Configure detector confidence threshold. The higher the value is, the lesser is the probability of false positives.
Target mask	Set the flag to highlight the recognized vehicle on video with a frame.
Show ID	Set the flag to display a unique identifier above each recognized vehicle on video.

Press Restore Default to restore the default settings.

Press Save to save the changes.



3.4.8.4.2 "Schedule" tab

Open the Schedule tab in the Vehicle Detection settings menu to set up human detection schedule.

NOTE.

The vehicle detector schedule is configured the same way as on the Schedule tab in Motion detection section (see section 3.4.6.1.2).

3.4.8.4.3 "Action" tab

In order to set up reactions on human detection open the Action tab in the Vehicle detection settings menu.

NOTE.

The reactions upon the detector triggering are configured the same way as on the Action B tab in the Motion detection settings menu (see section 3.4.6.1.3).



3.4.8.5 "Line Crossing" menu

The menu allows to set up detection of the line crossing in one of the preset directions.

Go to the Line crossing section in Video analysis settings menu to open.

The menu consists of the additional tabs which allow to:

- ◆ Basic settings set up basic parameters of line crossing detector (see section 3.4.8.5.1);
- Schedule —set up detector schedule (see section 3.4.8.5.2);
- Action —select actions upon the configured line crossing (see section 3.4.8.5.3).



3.4.8.5.1 "Basic settings" tab

To set up line crossing detector go to the **Basic settings** tab in Line Crossing settings menu.



Left-click on the preview window to draw the line. You can draw only one line and customize the following parameters:

Setting	Description
Sensitivity	Set up the detector sensitivity threshold, from 1 to 4 . The higher the value is, the lesser is the probability of false positives.
Trigger blink	Set the flag to activate frame blinking upon the line crossing.
Scene mode Select the detector scene mode: Outdoor or Indoor.	
Direction	 Select line crossing direction: A<->B — both ways; A->B — left to right; B->A — right to left.

Press **Restore Default** to restore the default settings.

Press Save to save the changes.



3.4.8.5.2 "Schedule" tab

Open the Schedule tab in the Line Crossing settings menu to set up line crossing detector schedule.

NOTE.

The line crossing detector schedule is configured the same way as on the Schedule tab in Motion detection section (see section 3.4.6.1.2).

3.4.8.5.3 "Action" tab

In order to set up reactions on line crossing open the Action tab in the Line Crossing settings menu.

NOTE.

The reactions upon the detector triggering are configured the same way as on the Action B tab in the Motion detection settings menu (see section 3.4.6.1.3).



3.4.8.6 "Intrusion Detection" menu

The menu allows to set up detection of unauthorized intrusion to a specific territory.

Go to the Intrusion Detection section in the Video analysis settings menu to open.

The menu consists of the additional tabs which allow to:

- Basic settings configure basic detector parameters (see section 3.4.8.6.1);
- Schedule —set up detector schedule (see section 3.4.8.6.2);
- Action —select actions on intrusion detection (see section 3.4.8.6.3).



3.4.8.6.1 "Basic settings" tab

In order to configure the detector's settings open the **Basic settings** tab in the Intrusion detection settings menu.



Left-click on the preview window to specify the area which will be monitored. Set up the following parameters for this area:

Setting	Description
Sensitivity]	Set up the detector sensitivity threshold, from 1 to 4. The higher the value is, the lesser is the probability of false positives.
Trigger blink	Set the flag to activate frame blinking upon the specified area intrusion detection.
Scene mode	Select the detector scene mode: Outdoor or Indoor.
Direction	Select the zone intrusion direction: Left; Enter; Both.

Press **Restore Default** to restore the default settings.

Press Save to save the changes.



3.4.8.6.2 "Schedule" tab

Open the Schedule tab in the Intrusion Detection settings menu to set up line crossing detector schedule.

NOTE.

The intrusion detector schedule is configured the same way as on the Schedule tab in Motion detection section (see section 3.4.6.1.2).

3.4.8.6.3 "Action" tab

In order to set up reactions on line crossing open the Action tab in the Intrusion Detection settings menu.

NOTE.

The reactions upon the detector triggering are configured the same way as on the Action B tab in the Motion detection settings menu (see section 3.4.6.1.3).





3.4.8.7 "Loitering" Menu

The menu allows to configure the detection of loitering people on a specified area.

Go to the Loitering section in the Video analysis settings menu to open.

The menu consists of the additional tabs which allow to:

- Basic settings —configure basic detector parameters (see section 3.4.8.7.1);
- Schedule —set up detector schedule (see section 3.4.8.7.2);
- Action —select actions on intrusion detection (see section 3.4.8.7.3).

3.4.8.7.1 "Basic settings" tab

In order to set up basic parameters of the loitering detector open the **Basic settings** tab in the **Loitering** settings menu.



Left-click to create loitering people detection zone on video preview. Set the time allowed on the specific territory in the Minimum time field - 5, 10 or 15 s. Upon the expiration of this time the detector will trigger.

Press Restore Default to restore the default settings.

Press Save to save the changes.



3.4.8.7.2 "Schedule" tab

Open the Schedule tab in the Loitering settings menu to set up line crossing detector schedule.

NOTE.

The intrusion detector schedule is configured the same way as on the Schedule tab in Motion detection section (see section 3.4.6.1.2).

3.4.8.7.3 "Action" tab

In order to set up reactions on line crossing open the Action tab in the Loitering settings menu.

NOTE.

The reactions upon the detector triggering are configured the same way as on the Action B tab in the Motion detection settings menu (see section 3.4.6.1.3).



SUPPLEMENT A. CONFIGURING NETWORK SETTINGS ON PC

NOTE.

Description of network settings is presented on the example of Windows 7 operating system.

In order to access an IP camera, it is necessary that the PC and the camera are connected to the same subnet and have the corresponding IP addresses

To do this, open Control panel (Start → Control panel) and run Network and Internet:





Go to the Change adapter settings menu:

🔊 🗢 😨 🕨 Control Panel	 Network and Internet Network and Sharin 	g Center	✓ ↓ Search Control Panel	-
Control Panel Home	View your basic network inform	ation and set up connections		
Change adapter settings Change advanced sharing settings	COB-FIK (This computer)	Сеть	See full map	
	View your active networks	Connect	or disconnect	
	Сењ Home network	Access type: Internet HomeGroup: Joined Connections: Q Local network conn	rection	
	Change your networking settings			
	Set up a new connection or netw Set up a wireless, broadband, dia	vork al-up, ad hoc, or VPN connection; or set up a router or	access point.	
	Connect to a network Connect or reconnect to a wirele	ess, wired, dial-up, or VPN network connection.		
	Choose homegroup and sharing	g options		
	Access files and printers located	on other network computers, or change sharing settin	gs.	
	Troubleshoot problems			
	Diagnose and repair network pro	oblems, or get troubleshooting information.		
ee also				
lomeGroup				

Right click on adapter and press **Properties**:





In the opened window select Internet Protocol Version 4 (TCP/IPv4) and press Properties:

Internet Protocol Version 4 (TCP/IPv4	1) Properties 💡 🔀			
General				
You can get IP settings assigned aut this capability. Otherwise, you need for the appropriate IP settings.	omatically if your network supports to ask your network administrator			
Obtain an IP address automatic	ally			
Use the following IP address:				
IP address:				
Subnet mask:	· · ·			
Default gateway:				
Obtain DNS server address auto	omatically			
O Use the following DNS server ad	ddresses:			
Preferred DNS server:	· · ·			
Alternate DNS server:				
Validate settings upon exit	Advanced			
	OK Cancel			

Select Use the following IP address and specify the required network settings (e.g. displayed on screenshot above).

Press OK in all opened windows to save the settings.



SUPPLEMENT B. UTP CABLING

The IP camera is connected to the commutator (switch or router) using a «direct» cable with the following wiring:

1 💶	white-orange	white-orange 📃 1
2 💻	orange	oranze 2
3 💶	white-green	white-green 3
4 💻	blue	blue 4
5 💶	white-blue	white-blue 5
6 📃	green	green 6
7 💶	white-brown	white-brown 🔤 📕 7
8 💻	brown	brown 8

The IP camera is connected to the PC directly using «cross» cable with the following wiring:

1 💶	white-orange	white-green	1
2 💻	oranse	green	2
3 💶	white-green	white-orange	3
4 💻	blue	blue	4
5 💶	white-blue	white-blue	5
6 💻	green	oranze	6
7 💻	white-brown	white-brown	7
8 -	brown	brown	8



SUPPLEMENT C. ROUTER SETTINGS

If the IP camera and the computer from which the connection is established are located in different local networks (e.g., the connection is via the Internet), in order to gain access to the IP camera it is necessary to configure the forwarding of network ports on the NAT server or router.

The IP camera uses the following network ports by default:

Port		
Port settings		
HTTP port	80 [1	65535, Default 80]
RTSP port	554 [1	65535, Default 554]
Service port	6000 [1	65535, Default 6000]
RTMP port	1935 [1	65535, Default 1935]

We will consider the configuration of port forwarding on the example of ZTE ZXHN F680 router.

Specify IP camera port random values. The port values for each IP camera should be unique and can't be used on the router for other services.

NOTE.

See description of the network ports in 3.4.3.2.

For example, you can set the following values:

Port		
Port settings		
HTTP port	8080	[165535, Default 80]
RTSP port	554	[165535, Default 554]
Service port	60	[165535, Default 6000]
RTMP port	5	[165535, Default 1935]

After that proceed to the router configuration.

NOTE.

Your router settings may differ from the description below.



SUPPLEMENT C. ROUTER SETTINGS

Start your web browser and enter the router IP address to access router administrator menu. As a result, the authorization window should appear:

F680	× +		-		×
÷)→ሮŵ	♥ <u>#</u> 192.168.1.1ZTE	···	680	0	:
		Please login to continue ФРусский Username admin			
		Password			
	l				
		©2008-2019 ZTE Corporation. All rights reserved.			
				 	_

Enter administrator login and password and press OK.

Go to the «Port forwarding» in the router settings menu (Application \rightarrow Port forwarding):





+Status	Path:Application-Port Forwarding <u>Русский</u> <u>Logout</u>
+Network	
+Security	Enable 🗹
-Application	Name Cam1_HTTP
DDNS	Protocol TCP 🗸
DMZ Host	WAN Host Start IP Address
UPnP	WAN Host End IP Address
UPnP Port Mapping	WAN Connection Internet
Port Forwarding	WAN Start Port (1 ~ 65535)
+DNS Service	WAN End Port (1 ~ 65535)
USB Storage	Enable MAC Mapping
FTP Application	LAN Host IP Address 192.168.25.32
Port Trigger	LAN Host Start Port 8080 (1 ~ 65535)
Port Forwarding (Application List)	LAN Host End Port 8080 (1 ~ 65535)
Application List	Add
Samba Service	
USB print server	LAN
+Administration	WAN Host WAN Host WAN Name Start IP Start Start Connection Address Point Start Start Connection
+Help	Enable Protocol WAN Host WAN Host LAN Host Address Port Port Modify Delete
	There is no data, please add one first.
	©2008-2019 ZTE Corporation. All rights reserved.

Enter a random forwarding name into the Name field.

Select TCP/UDP or TCP data transfer protocol in the Protocol field.

Specify http port to connect to the camera web interface which should be forwarded in the WAN Start Port and WAN End Port fields.

Specify camera internal IP address in the IP address field.

Press Add to save the forwarding rule.





Configure other port forwarding rules the same way:







As a result you should see the following:

Status	Path:Application	on-Port Fo	rwarding			русский	-	Lo
Network								
+Security			Enable					
-Application								
DDNS			Protocol	TCP		\sim		
DMZ Host	WA	N Host Sta	art IP Address					
UPnP	w	AN Host E	nd IP Address]		
UPnP Port Mapping		Intern	et					
Port Forwarding		v	VAN Start Port			(1 ~ 65535)		
+DNS Service			WAN End Port			(1 ~ 65535)		
USB Storage		Enable	MAC Mapping			1		
FTP Application		LAN He	st IP Address			1		
Port Trigger			lost Start Port			(1 ~ 65535)		
Port Forwarding (Application List)		LAN	Host End Port			(1 ~ 65535)		
Application List				Ade	1			
Samba Service								
USB print server			WAN Host	WAN	I AN Host			
Administration		Name	Start IP Address	Start Port	Start Port	WAN Connection		
+Help	Enable	Protocol	WAN Host End IP Address	WAN End Port	LAN Host End Port	LAN Host Address	моагу	Delet
8		TCP1		5000	5000	Internet		-
	· •	TCP AND		5000	5000	192.168.25.3	<u> </u>	
	_	HTTP1		8080	8080	Internet		_
		TCP AND		8080	8080	192.168.25.3		
	_	RTSP1		5054	5054	Internet		-
				FOFA	FOFA	102 169 25 2	1	

In order to access IP camera from the Internet, enter <<u>external router IP address</u>>:<<u>camera</u> web interface connection port>.

Example: http://88.100.20.44:8080

NOTE.

You can also configure control and alarm ports forwarding.



SUPPLEMENT D. OPERATION ON RTSP AND ONVIF

Connecting on RTSP protocol

NOTE.

VLC media player (<u>http://www.videolan.org/vlc/</u>) will be used as an example for connection of an IP camera via RTSP. You can use any other media player with an option of video streaming.

Start media player and select network as a source. To do this select Media \rightarrow Open network stream....





Enter RTSP request to the IP camera on the Network tab and press Play:

File File	O Disc	a Network	Capture De	evice	
Network	Protocol				
Please e	nter a netwo	ork URL:			
1					-
http:// rtp://d mms: rtsp:// http:/	lwww.example 9:1234 /mms.example server.example /www.yourtub	.com/stream.avi s.com/stream.asv .org:8080/test.sdp a.com/watch?v=gg6	54x		

RTSP request to the IP camera should be in the following format:

main stream:

rtsp://[login]:[password]@[ip address]:[rtsp port]/live/main

sub stream:

rtsp://[login]:password]@[ip address]:[rtsp port]/live/sub

third stream:

rtsp://[login]:password]@[ip address]:[rtsp port]/live/mobile

where

[ip address] — camera ip address (see section 3.4.3.1 or 3.4.3.3);

[rtsp port] — IP camera rtsp port, which streams video (see section 3.4.3.2);

[login] and [password] — user name and password (see section 3.1);

/live/main, /live/sub, live/mobile — video stream request commands.

Example:

main stream: rtsp://admin:12345@192.168.25.32:554/live/main

sub stream: rtsp://admin:12345@192.168.25.32:554/live/sub

third stream:

rtsp://admin:12345@192.168.25.32:554/live/mobile



Getting a snapshot from IP camera

In order to get snapshot from IP camera enter the following request in to the browser: rtsp://[ip address]:[port]/action/snap?cam=0&user=[login]&pwd=[password] where

[ip address] — camera ip address (see section 3.4.3.1 or 3.4.3.3);

[port] — http port used to connect to the IP camera (see section 3.4.3.2);

[login] and [password] — user name and password (see section 3.1);

/action/snap?cam=0 — snapshot request command.



Connecting on ONVIF standard

In order to connect an IP camera on ONVIF standard, the following data is required:

- Camera IP address (see section 3.4.3.1 or 3.4.3.3);
- video streaming port (see section 3.4.3.2);
- user name and password, having access to the IP camera (see section 3.4.7.1).

NOTE.

You can also use «ONVIF Device Manager» (<u>http://sourceforge.net/projects/onvifdm/</u>) utility to connect to IP camera on ONVIF standard.

ONVIF Device Manager v2.2.250				
You logged in as admin Log out				🧔 🗶 💆
Device list 《	TR-D7141IR1		Identification	
TR-D Cancel Firmware Address 192.168.7.64; FE80:0000:0000:	Οηνιε	Identification Time settings Maintenance Network settings User management	Name Location Manufacturer	TR-D7141IR1
TR-D7141IR1 Firmware IPCAM_V2.50.171109		Certificates Web page Events	Model Hardware Firmware	1R-D/141IR1 600108004-BV-H0804 IPCAM_V2.50.171109
Address 192.168.80.20 Location	NVT	Refresh	Device ID	D7141IR1M1601060812
TR-D1140	videosrc_cam0: profile0		IP address	192.168.80.20
Firmware		Live video	MAC address	D0-22-12-D3-D8-35
Address 192.168.123.108 Location		Video streaming Imaging settings	ONVIF version	2.60
		Analytics	URI:	http://192.168.80.20/onvif/device_service
		Rules Metadata Profiles		Apply Cancel
Add				



SUPPLEMENT E. IP CAMERA PLACEMENT

The correct IP camera placement is essential for proper video analysis module operation.

The camera installation parameters may vary depending on the focal length (more focal length - more distance of the camera from the detection zone).

The following requirements should be met in order to get the most accurate video information and increase the viewing angle:

NOTE.

The following installation parameters are recommended for cameras with focal length of 2.8 mm.

Placement:

Line crossing

- The height is not less than 2,5 meters from the detected object;
- The tilt angle towards the detected object should not exceed 35% and should be adjusted depending on the installation height.







Vehicle detector

- Installation height 1-4m;
- The tilt angle towards the detected object should not exceed 35% and should be adjusted depending on the installation height.



Face detection

- Installation height 1-2 meters, tilt angle can be adjusted according to the installation height;
- It is recommended that the tilt angle towards the ceiling should not exceed 35 degrees.





Shooting area and objects:

- There should be enough free space in the intended detection area;
- The shooting area should have moderate lighting, without too bright or flickering light;
- The detected objects should be located at the sufficient distance which is not too far or too close to the camera;
- The detected objects should not move too quickly or change too often.

When installing the camera, you should take into account the external factors that can negatively affect the operation of the detectors or cause false alarms:

- Incorrect camera placement, when the objects of detection are located too close or too far from the camera;
- There are too many foreign objects in the intended detection area;
- There are too many fast moving objects in a frame;
- The lighting in the shooting area is too bright, or, on the contrary, is not sufficient;
- There are harsh shadows against bright sunlight when the camera is located outdoors;
- The unfavorable weather conditions such as gusts of wind or raindrops when the camera is located outdoors.

NOTE.

In order to decrease the amount of the false alarms, change the detectors' sensitivity or decrease the size of the detection zones. Read more in 3.4.6.1,3.4.8.2, 3.4.8.3, 3.4.8.5, 3.4.8.6, 3.4.8.7.



SUPPLEMENT F. IPC MANAGER

Searching for IP-camera using TRASSIR IPCManager app

Use TRASSIR IPCManager utility to find the camera if the IP address is unknown.

NOTE.

You can download TRASSIR IPCManager utility on www.dssl.ru.

Upon the start the utility will search for IP cameras in local network automatically.

	Select									Firms
		1	TR-D7121IR1V6	TR-D7121IR1V6	IPC	172.16.13.13	f0:23:b9:5d:ae:4d	80	D7121IR 1V6M0FZ022160561	V3.63
		2	TR-D7121IR1V6	TR-D7121IR1V6	IPC	172.16.13.14	f0:23:b9:5d:ae:66	80	D7121IR 1V6M0FZ022160586	V3.63
1.1		3	TR-D7121IR1V6	TR-D7121IR1V6	IPC	172.16.13.15	f0:23:b9:5d:ae:74	80	D7121IR 1V6M0FZ022160600	V3.63
9		4	TR-D7121IR1V6	TR-D7121IR1V6	IPC	172.16.13.16	f0:23:b9:5d:ae:61	80	D7121IR 1V6M0FZ022160581	V3.6
		5	TR-D7121IR1V6	TR-D7121IR1V6	IPC	172.16.13.17	f0:23:b9:5d:ae:63	80	D7121IR 1V6M0FZ022160583	V3.63
		6	TR-D7121IR1V6	TR-D7121IR1V6	IPC	172.16.13.18	f0:23:b9:5d:ae:5a	80	D7121IR 1V6M0FZ022160574	V3.63
21 - C		7	TR-D7121IR1V6	TR-D7121IR1V6	IPC	172.16.13.19	f0:23:b9:5d:ae:5f	80	D7121IR 1V6M0FZ022160579	V3.63
*		8	TR-D7121IR1V6	TR-D7121IR1V6	IPC	172.16.13.20	f0:23:b9:5d:ae:4f	80	D7121IR 1V6M0FZ022160563	V3.63
		9	TR-D7121IR1V3	TR-D7121IR1V3	IPC	172.16.13.54	f0:23:b9:44:8c:5d	80	D7121IR1V3M0FZ021850328	V2.81
		10	TR-D2123IR6V6	TR-D2123IR6V6	IPC	172.16.13.58	f0:23:b9:58:ec:36	80	D2123IR6V6M17Z0A2089904	V3.92
		11	TR-D2152ZIR3	TR-D2152ZIR3	IPC	172.16.13.62	f0:23:b9:58:ae:33	80	D2152ZIR 3M07Z0C2080247	V4.04
		12	IPC-D2321WDIR4	TR-D2321WDIR4i	IPC	172.16.13.105	f0:23:b9:5f:83:99	80	D2321WDIR4M317Z022189902	V0.00
		13	IPC-D2151IR3V2	IPC-D2151IR3V2	IPC	172.16.13.107	f0:23:b9:5f:da:28	80	D2151IR3V2M2072022199901	V0.00
		14	TR-D8121IR2V4	TR-D8121IR2V4	IPC	172.16.13.122	f0:23:b9:4a:ad:2b	80	D8121IR2V4M07Z021990989	V3.53
		15	IPC-D2323WDZIR7	IPC-D2323WDZIR7	IPC	172.16.13.143	f0:23:b9:5f:83:9b	80	D2323WDZIR 7M317Z0A2189902	V0.00
		16	TR-D2253WDIR7	TR-D2253WDIR7	IPC	172.16.13.149	f0:23:b9:53:2b:be	80	D2253WDIR7M17Z0A2019901	V4.04
	<									

Find the IP camera in the displayed list, select and enter your user name and password in the lower left corner. Configure device basic network settings. This will allow you to access the IP camera's web interface.

DHCP		
Use The Following IP Address		
IP From		
Subnet Mask		
IP Gateway		Modification



You can also:

Refresh	
	1
Manual add	2
Add IP segment	3

- 1. Refresh the device list
- 2. Manual add add camera manually. In the window that opens enter the camera data.

🕙 Login		×
		_
IP Addre	ess 192 · 168 · 1 · 12	0
User Na	me admin	
Passwor	rd	
HTTP Po	80	
	Login	

3. Add IP segment — add a network segment.

No. IP segment Port No. 1 172.16.13.1 - 172.16.13.254 6000 IP From 192 . 168 . 0 . 1 To 254	
1 172.16.13.1 - 172.16.13.254 6000	
IP From 192 · 168 · 0 · 1 To 254	
IP From 192 · 168 · 0 · 1 To 254	
IP From 192 · 168 · 0 · 1 To 254	
IP From 192 • 168 • 0 • 1 To 254	
IP From 192 • 168 • 0 • 1 To 254	
IP From 192 • 168 • 0 • 1 To 254	
Port No. 6000	
Confirm Adding Delete	



Additional menu for managing IP camera

Select the camera in the list and right-click.

Select	No.	Model	Name
	1	TR-D7121IR1V6	TR-D7121IR1V6
	2	TR-D Open Home	1
	3	TR-D Select ALL	2
	4	TR-D Refresh	3
	5	TR-D Export List	4
	6	TR-D Mainstream Viewing	5
	7	TR-D Substream Viewing	6
	8	TR-D Camera Configurations	7
	9	TR-D Find Your Password	8
	10	TR-D2123IR6V6	TR-D2123IR6V6
	11	TR-D2152ZIR3	TR-D2152ZIR3
	12	IPC-D2321WDIR4	TR-D2321WDIR4i
	13	IPC-D2151IR3V2	IPC-D2151IR3V2
	14	TR-D8121IR2V4	TR-D8121IR2V4
	15	IPC-D2323WDZIR7	IPC-D2323WDZIR7
	16	TR-D2253WDIR7	TR-D2253WDIR7

An additional menu will open, which allows you to:

- 1. Open home open IP-camera web interface;
- 2. Select all select all devices in the list;
- 3. **Refresh** refresh the list of devices;
- 4. Export list export list of the discovered devices;
- 5. Mainstream Viewing open the camera main stream;
- 6. Substream Viewing open the camera sub stream;



7. Camera configurations — open the IP-camera basic settings menu;

Ocamera Configurations						
Video Stream	Encoder	Network	WIFI	System	RTMP	
Video Stream	Encoder	Network	WIFE	System Image Settings Saturation Brightness Sharpness Contrast Video Parameters DayAlghtMode Video Standard Mirroring WDR Shutter Shutter	RTMP O	
Device Information						
Display Device Information Display Customized Content Display Device Time	TR-D2251WD	IR4			Save	

8. Find your password — IP camera password reset menu.

Find You	ur Password	\times
Please se 24hrs.	nd the following serial number to: support@dssl.ru .You will receive your password within	
	8B139A2F35A66DE6C5D0860CFD23BB34	



Upgrading camera with IPC Manager

The IPC Manager utility lets you update the device firmware. To do this, open the Firmware Upgrading menu.

Trassir IPCManager V4.02.26	27.042			0.5			– 🗆 🗙
	Select	No.	IP Address	Firmware Version	Model	Upgrading Status	
O ,							
IPC Searching							
(±)							
Firmware Upgrading							
*							
Configurations							
*							
Tools							
	<						>
	Se	slect		Add IPC		Firmware Upgrading	
TRASSIR		Delete	•	Starting IP		Upgrade File	
				Ending IP			Browse
				Add IF	c	Upgrade	
User Name				Add Onlin	e IPC	Cancel	
Password							

This menu lets you:

• Select all devices / Delete a device

Select	
Delete	

• Set a range of IP addresses for update.

Add IPC			
Starting IP			
Ending IP			
Add IPC			
Add Online IP	C		



If you specify a starting IP address and click Add IPC button - only the specified IP address will be added. If you specify a start and end IP addresses - the whole range of IP addresses will be added.

• Upgrade device firmware

Firmware Upgrading	 		
Upgrade File			
		Browse	
Upgrade			
Cancel			

Press Browse to locate the firmware file and then press Upgrade to start the upgrading process.

"Configurations" menu

Open the Configurations menu.

rassir IPCManager V4.02.26				G			
	Select	No.	IP Address	Name	Configuration Status		
N		1	172.16.13.13	TR-D7121IR1V6			
		2	172.16.13.14	TR-D7121IR1V6			
Proved law		3	172.16.13.15	TR-D7121IR1V6			
earching		4	172.16.13.16	TR-D7121IR1V6			
7		5	172.16.13.17	TR-D7121IR1V6			
1		6	172.16.13.18	TR-D7121IR1V6			
are Upgrading		7	172.16.13.19	TR-D7121IR1V6			
		8	172.16.13.20	TR-D7121IR1V6			
3		9	172.16.13.54	TR-D7121IR1V3			
•		10	172.16.13.58	TR-D2123IR6V6			
gurations		11	172.16.13.62	TR-D2152ZIR3			
		12	172.16.13.105	TR-D2321WDIR4 imx327			
2		13	172.16.13.107	IPC-D2151IR3V2			
		14	172.16.13.122	TR-D8121IR2V4			
		15	172.16.13.143	IPC-D2323WDZIR7			
	2						
				Timing		Input The Configurations	Modify Password
		Select ALL					
IRASSIR.			afred	Manually 1/2	/2000 12:00 AM	Configurations File	User Name admin
			ellesi			-	
			lestore	Device time	_		New Password
				Set		Browse	Confirm Password
v Name		F	Reboot	-			
s realize						Set	Set

This menu lets you additional parameters of IP-camera:

- Set up date and time;
- Import the configurations files for the selected device;
- Change IP-camera password;
- Save the camera configurations file.



You can also:



- 1. **Refresh** refresh the device list;
- 2. Restore restore the camera settings to defaults;
- 3. Reboot reboot IP-camera.

"Tools" menu

Open the **Tools** menu.

The File Converter lets you convert video files from IP-camera SD card to MP4.

Files Converter	Open KMTool		
1	Select The Files	2 Browse The Output Folder	_
3 Progres	Start Converting	4 Stop Converting	
The Cur	rent Progress]
Total Pr	rogress]

SUPPLEMENT F. IPC MANAGER



- 1. Select The Files open path to source files.
- 2. Browse The Output Folder open path to the converted files.
- 3. Start Converting.
- 4. **Stop Converting** stop the converting process.

The KMTool tab lets you activate analytics license.

NOTE.

A license file is required for activation. To request a license file for analytics on cameras, you need to contact your manager.

There are three steps involved in activating the analytics license: collecting the necessary information about the camera, transmitting this information, and loading the license.

1st step: Collecting the necessary information on camera:

- 1. Start IPC Manage and go to Tools section to Open KMTool tab.
- 2. In the opened window in Authorization block enter login and password to access the camera.

Trassir KMTool V0.2.9 build20210823								$ \Box$ \times
No	. IP Address	VA Type	Model	Name	Mac Address	Status	Key Management	
							Output folder	
								Browse
								Download
							Authorized files	
							Addionacomes	0
								browse
								Check
								Upload
							Advidel Alle average	
							woder me manag	ement
							Model file	
								Browse
								Upload
							Authentication	
							User name	admin
							Password	
<						>		
Sel	ect all					Search device		

- 3. The KMTool will search for devices in the local network. You can also search for devices manually, by pressing Search device.
- 4. You can check the device state in the **Status** column:activated or deactivated. Select one or several deices to activate, by checking the corresponding flags.



5. Click Browse to specify the desired folder to save the device certificate file (the file name must contain the MAC address in the following format **aa:bb:cc:dd:ee:ff.dat**). Then click Download in Output folder block to save the device certificate file in the selected folder.

2nd step: Providing information to technical support:

- 1. Send the folder archive/device certificate file to your manager.
- 2. You will receive an email with a license file attached. It takes an average of 2-3 business days to process your request. In case of any difficulties, or long absence of response, please contact technical support.

3rd step: Uploading license for camera:

- 1. Click Browse in the Authorized Files block in Open KMTool tab.
- 2. Click the Upload button. After that the tool will automatically find the necessary files on the devices and download them to the corresponding cameras.
- 3. Make sure that the license file was successfully added. Click Check: if the license file is correct, the Status column will display Activated. If the Status column still shows Authorization Error, contact the technical support.