

TRASSIR®



TRASSIR Cameras

TRASSIR today



Experience in CCTV
surveillance

SINCE 2002

15 000 +

loyal customers
around the globe

3 R&D centers



50 countries with TRASSIR
installations

Who are we?



TRASSIR is an AI Video surveillance and security systems, IoT and software developer since 2002. All our company's advanced solutions are designed in-house. Our key principle is that modern security solutions should be engineered based on the concept of deep future-proofing and wide-spread compatibility between all system components. This allows the selected elements in the TRASSIR system to work with maximum productivity in a timely and cost-effective manner.

Since 2002, TRASSIR has been developing solutions for CCTV surveillance and security:

Professional CCTV surveillance software

Dedicated Technical Pre-sales and After-sales support; Technical coaching

Comprehensive partnership policy

CCTV cameras and video recorders

Why TRASSIR?



Compatible with 99% of cameras

NVRs and analytics are compatible with 99,9% of IP-Cameras.
Connection options include:

- Native integration (manufacturer protocol)
- ONVIF
- RTSP connectivity

Pre-sale demo and training

Our engineers demonstrate system functions and conduct training sessions and webinars

Highly customizable

Complete customization for specific projects using rules and Python scripts

Technical project supervision

Dedicated technical manager on project base

Easy predictable TCO

Lifetime licensing, firmware updates, free technical support

Turnkey solutions

Complete end-to-end video surveillance systems of any size

Privacy, personal information and data protection



Client-server architecture with flexible configuration of access rights for owner, administrators, operators, managers.



Archive can be encrypted. Only password owner can get access to it.

All network connections including video streams transferring are protected with SSL and TLS protocols.

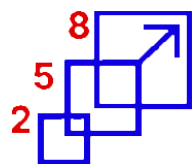


TRASSIR cameras major benefits



TRASSIR cameras comply with the latest CCTV standards:

Deliver quality image thanks to:



Resolution
(2/4/5/8 MP)



WDR up to
140 dB

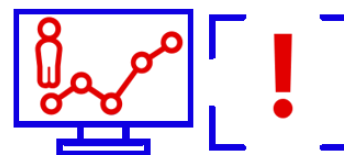


High sensitivity up
to 0.001 Lux (F/1.0)
and sensor size up
to 1/1.8

And:



Support effective industry-leading
codecs (H.264+, H.265+)



Support edge Analytics
or detection based
events

TRASSIR benefits



Multistage production and quality control



From year to year we are reducing the percentage of defects: in 2022 the figure fell below 1%

Tech support and warranty up to 5 years



Our technical support accepts requests seven days a week, and the camera warranty is 2 years for the budget ECO line and 5 years for the TREND and PRO lines

TRASSIR software integration



TRASSIR – all cameras are integrated with TRASSIR Software, providing flexible system design options.

Camera customization options



If the client has specific requirements, we can customize the product to suit his needs

Scaling



The ability to scale the system thanks to ecosystem interoperability

Series

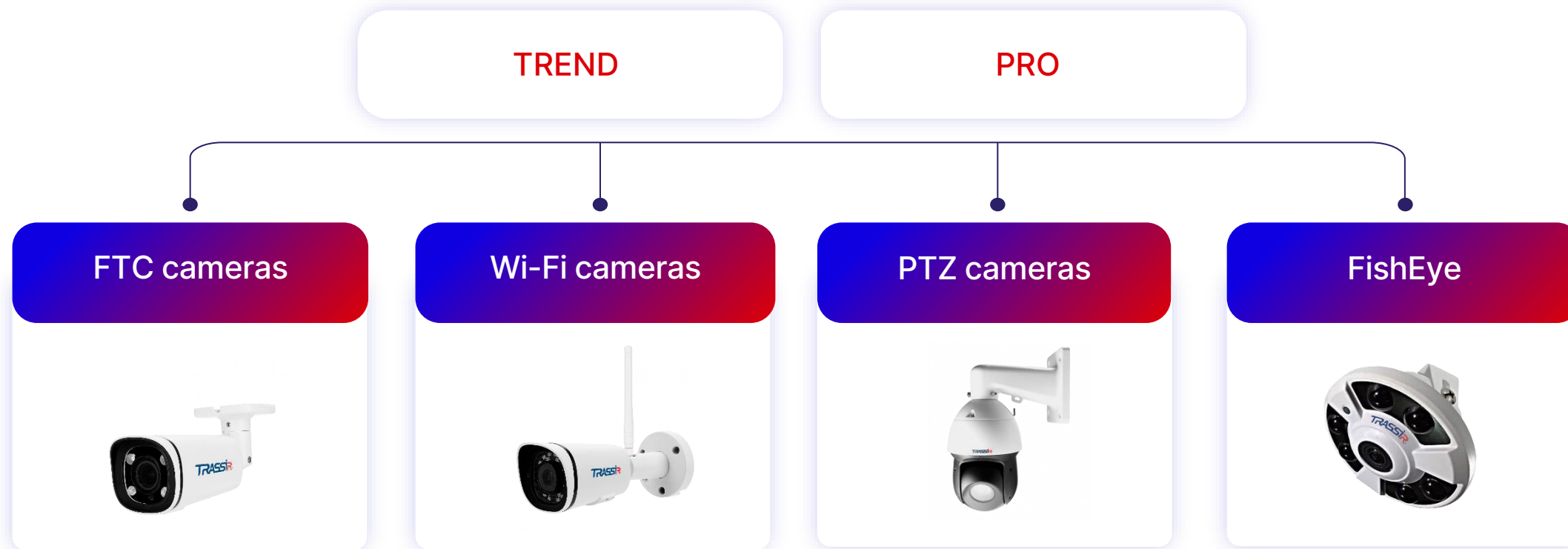


	CLOUD	ECO	TREND	PRO	ULTRA
	Cloud cameras for surveillance from anywhere in the world	Entry level cameras with basic features	Professional cameras for various objects	Project cameras with wide capabilities	High-performance video cameras with a wide range of features
TRASSIR VMS integration					
Resolution	2 MP	2 MP / 4 MP	2 MP / 5 MP / 8 MP	2 MP / 5 MP / 8 MP	2 MP / 5 MP
Audio					
Edge storage					
Edge analytics				AI	AI
Alarm Inputs/outputs			Some models have		

TRASSIR cameras subseries

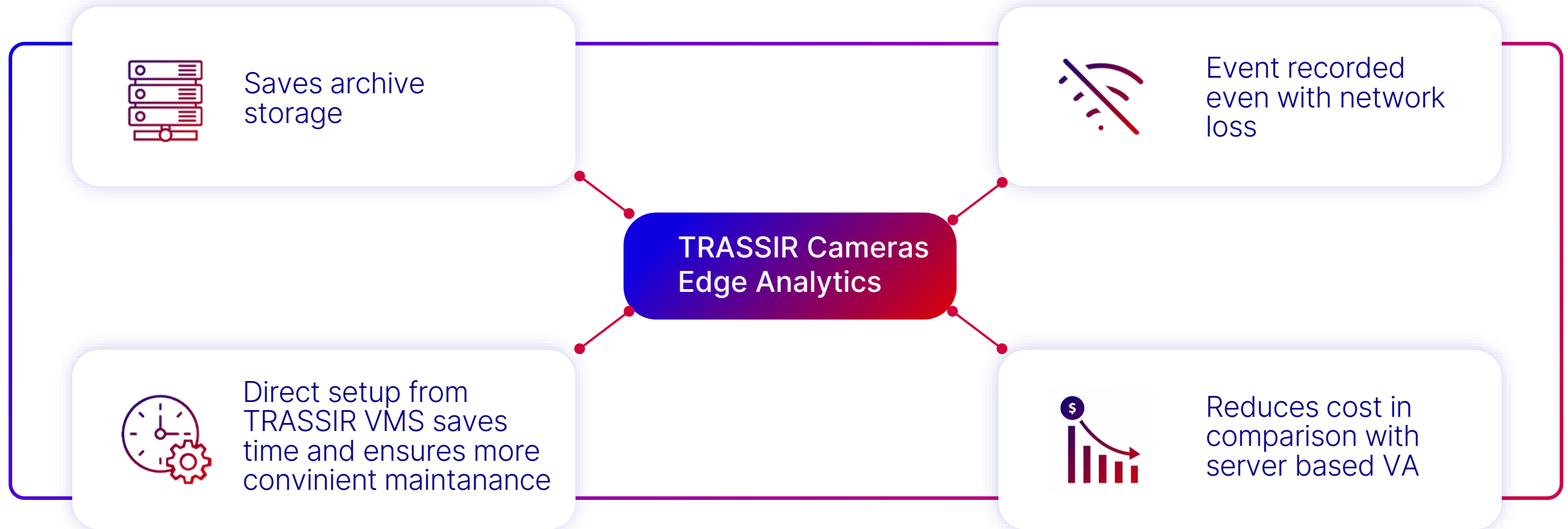


TREND & PRO are divided into several subseries



Each series have cameras in different shells, with various lens, focus range, and specs to meet any customer requirements

Benefits. TRASSIR Cameras Edge Analytics



Analytics functions available on cameras



Perimeter Protection

- Human detection
- Line crossing
- Zone control
- Intrusion
- Zone exit
- Vehicle/person classification
- Auto object tracking
- Motor/non-motor transport detection
- Territory control
- Loitering



People Counting

- People counting



Sabotage Detection

- Defocus detection
- Sabotage detection



Crowd Detection

- Crowd detection



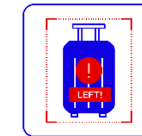
Sound Detection

- Audio detection



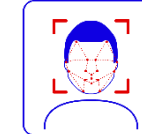
AutoTRASSIR

- Speed detection
- Parking detection



Left Objects Detection

- Abandoned objects
- Missing objects



Face Detection

- Face detection

User scenarios. Reactions



Edge analytics reactions on camera
Available from TRASSIR web interface

Alarm output



Manipulation with
camera's alarm
output

Snapshot (to SD card)



Saves snapshot to SD
card

Record (to SD card)



Starts recording
on SD card

Audio output



Plays audiotrack from
camera, mostly siren
sound

FTP



Sends a snapshot of
FTP Server if the SD
card is connected to
camera

User scenarios. Reactions in TRASSIR VMS



By rules

Variety of reactions set up by user for events coming from VA via automation on server/client.

By scripts

Alarm Monitor is used for more simple and convenient reaction on events from camera edge analytics. It offers huge variety of reactions, for example such as:

- Turn on video channel to be displayed
- Save snapshot to local drive
- Send e-mail notification
- Play audio file
- Run Pop-up window
- And many other settings...

Product choice quick sheet



Product series	Edge analytics supported (depending on a model)	Trigger to offer
ECO	Intrusion detection, Zone control, Human detection, Line crossing, Loitering	Customer runs server; server video analytics, such as Neuro Detector, Neuro Counter, ActivePOS and others, that don't require specific cameras.
TREND	Human detection, line crossing, zone control Trend 8 MP: Intrusion detection, Zone control, Vehicle detection, Human detection, Audio detection, Sabotage detection, Parking detection, Crowd detection, Abandoned objects, Missing objects, Line crossing, Loitering, Face detection, Defocus detection	- Customer needs to record audio with the help of MIC built-in. - Customer needs camera edge storage to ensure backup in case of network failure
PRO	AI: Intrusion detection, Zone control, Vehicle detection, Human detection, Audio detection, Defocus detection, Sabotage detection, Parking detection, Crowd detection, Abandoned objects, Missing objects, Line crossing, Loitering, Face detection, Parking detection	Best to use with NeuroStation or UltraStation series NVRs
ULTRA	AI: Intrusion detection, Zone control, Vehicle detection, Human detection, Line crossing, Loitering, People counting, Face detection.	TRASSIR Face recognition or License Plate Recognition is supposed to be used in project. Best to use with NeuroStation or UltraStation series NVRs

ECO series

TRASSIR®

ECO Camera Series are designed for basic surveillance purposes



High Quality
image



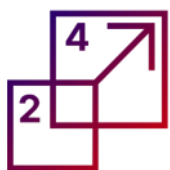
Outdoor and
indoor shells



Edge detection
events



ECO series Benefits



2 MP & 4 MP resolution



25 fps framerate



1/2.9" CMOS sensor for 2 MP and 1/3" CMOS for 4 MP



Latest industry-leading codecs supported



Indoor and outdoor shell

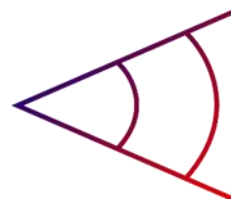


SMART

Edge analytics



Power over Ethernet and non-PoE models available



Lenses with fix and varifocal focus range



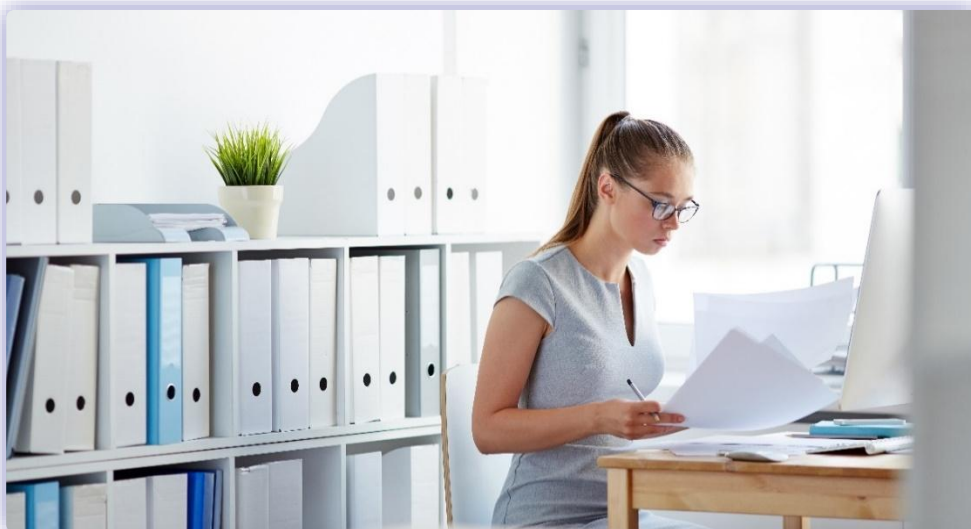
Integrated with TRASSIR



2 year warranty

User Scenarios

Perimeter Protection



ECO series range of cameras are suitable for perimeter protection and operation at stores, offices, shopping malls.

Server Analytics



Using video footage from ECO series you can run server video analytics, such as Neuro Detector, Neuro Counter, ActivePOS and others, that don't require specific cameras.

TRASSIR ECO series vs Competitors



Product segment	TRASSIR	Competitors
ECO 2 MP	VCA , TVS4000V	Motion Detection, no lightning protection
ECO 4 MP	4MP@25 fps, VCA, TVS4000V	4MP@20fps, Motion Detection

TREND benefits



2, 5 and 8 MP
Resolution



25 fps frame rate



Built-in Mic
(some models
also have
Audio in/out)



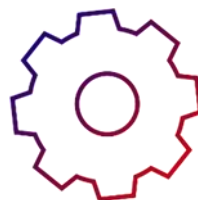
Latest industry-
leading codecs are
supported



EDGE Video
analytics



Support SD-cards
for edge storage



Additional functionality
such as FTC, WI-FI, PTZ
(coming soon), strobe light



Integrated
with TRASSIR
VMS



5 years
warranty

TREND series



The TREND series is designed for building complex and robust video surveillance systems where a wide choice of high-resolution types and enclosures are needed.



High Quality
image



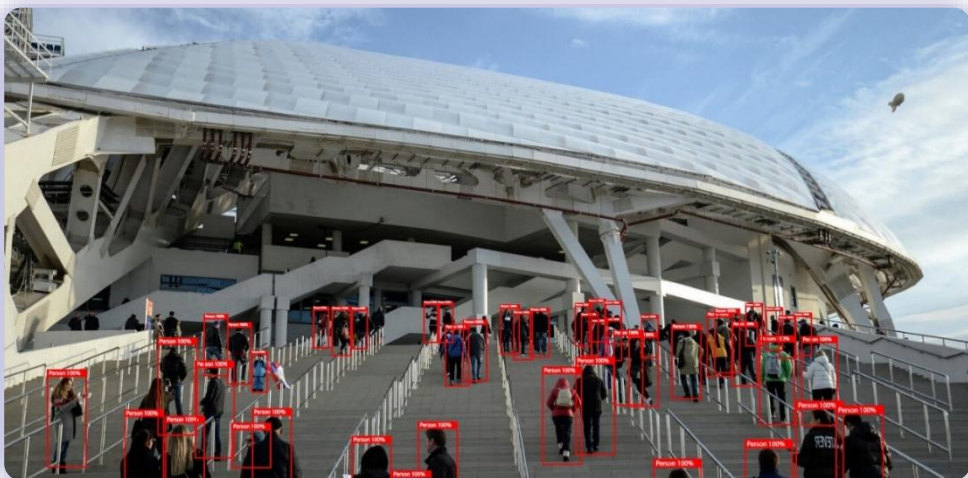
Outdoor-
ready enclos-
ures



Edge analytics



User Scenarios



Security critical objects, where high resolution is required for identifying possible violations, use in conjunction with TRASSIR server analytics and a quick response to such violations.



Segments: Commercial, Infrastructure, real estate, Public Safety, Industrial.

Built-in edge analytics allows to quickly react on incidents.

TRASSIR TREND series vs Competitors



Product segment	TRASSIR	Competitors
TREND 2 MP & 2 MP Full Color	Better sensitivity & illumination distance, VCA, lighting protection, RWDR	DWDR, Motion Detection, no lightning protection
TREND 5 MP & 5 MP Full Color	5MP, VCA, TVS4000V	4MP, Motion Detection, no lightning protection
TREND 8 MP	8MP@15fps, VCA, TVS4000V	8MP@12.5fps, Motion detection, no lightning protection

PRO series



PRO series are designed to build wide scale, robust and complex video surveillance systems



High quality
in challenging
environment



Outdoor-
ready



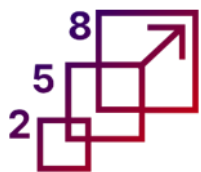
Edge
analytics



Project
protection



PRO benefits



2, 5 and 8MP
resolution



25 fps framerate



Built-in MIC



Audio in/out



Alarm in/out



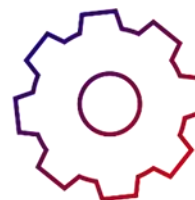
Latest industry-
leading codecs



Edge analytics



Support SD-card
for edge storage



Additional functionality
like FTC, Wi-Fi, PTZ,
strobe light



Integrated
with TRASSIR
VMS



5 years of
warranty

User Scenarios



Security critical objects, where high resolution is required for identifying possible violations, use in conjunction with TRASSIR server analytics to identify objects - Face Recognition and AutoTRASSIR or other analytics.



When connected external detectors via alarm interfaces PRO series provide more functionality to ensure safety on the object.

Best to use with NeuroStation or UltraStation series NVRs, thanks to characteristics that are suitable for the use of complex server analytics.

TRASSIR PRO series vs Competitors



TRASSIR product segment	TRASSIR	Competitors
PRO 2 MP & PRO 2 MP FTC	Advanced analytics: People Counting, Loitering, Face detection, Intrusion, Tripwire; Alarm in/out, TVS4000	Basic analytics, no alarm interfaces, no lighting protection
PRO 5 MP & PRO 5 MP FTC	5 MP, Advanced analytics, TVS4000	4 MP, basic analytics, no lightning protection
PRO 8 MP & PRO 8 MP FTC	Advanced analytics, TVS4000, Alarm in/out	Basic analytics, no lighting protection

FTC cameras



FTC – Full Time Color cameras

Allow to stream color image 24/7



FTC cameras



FTC camera

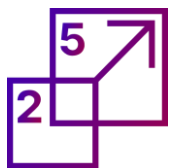
Conventional camera at night

FTC (Full Time Color) cameras are presented in both the TREND line and the PRO line

Allows to obtain color images even at low light environment

Maintains high detail and quality in the dark

Major benefits



2, 5 and 8 MP
Resolution



25 fps framerate



Built-in MIC



High sensitivity



Large aperture



Support latest
industry codecs



Support SD-
card for edge
storage



Integrated
with TRASSIR
VMS



Strobe light
function (switch on/
off depending on
scenario)



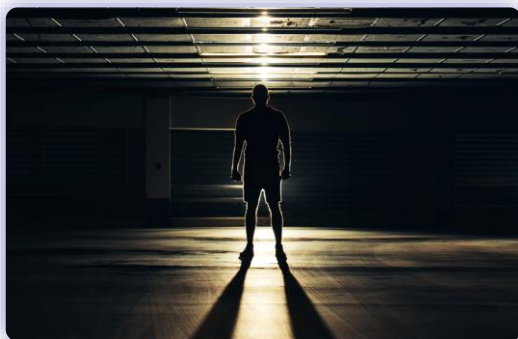
White LED
(switch on/ off de
pending on scena
rio)



5 year
warranty

User Scenarios

STROBE LIGHT



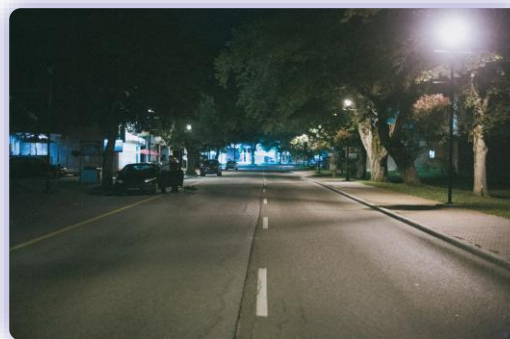
The strobe function can be triggered by events from built-in detectors, attracting the attention of the intruder and turning on additional illumination for more detailed visual recognition.

ADDITIONAL LIGHTING



Use as additional lighting of the area, for example, on construction sites, on private territory.

COLOR IMAGE



More accurate identification of the offender due to the color image and the ability to determine the color of the car, external attributes, such as hair color, clothing.

TURNING OFF THE BACKLIGHT



The backlight can be turned off to make the cameras less noticeable and not attract the attention of intruders.

New: PRO line PTZ cameras 2 and 5MP



PTZ cameras with edge analytics, wide dynamic range and design protection



TR-D6224IR15 v3
TR-D6254IR15 v3



TR-D6224IR15 v3
TR-D6255IR20 v3

Main features of PRO 2MP PTZ cameras



2MP resolution



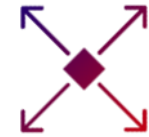
Optical zoom
x25 and x33



Light sensitivity
0.001LC



Real WDR 140 dB
wide dynamic
range



IR range up to
150 meters



Audio input /
audio output



Alarm input /
output



Extensive edge
analytics
capabilities



IP66 waterproof
and outdoor
version



Project
protection

PRO 5MP PTZ cameras main features



5MP resolution



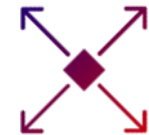
Optical zoom
x23 and x30



Light sensitivity
0.001LC



Real WDR 140 dB
wide dynamic
range



IR range from 150
(TR-D6254IR15 v3)
to 200 meters (TR-
D6255IR20 v3)



Audio input /
audio output



Alarm input /
output



Extensive edge
analytics
capabilities



IP66 waterproof
and outdoor
version



Project
protection

ULTRA series



Project cameras with increased component performance and fault tolerance



New level of picture quality



- Highly sensitive Sensor
- Increased frame rate
- P-Iris

New control level



- Advanced edge analytics based on AI (artificial intelligence)

ULTRA series. User scenarios



For TRASSIR Face Recognition

(with good light environment)

TR-D3253WDZIR3 v2
TR-D3353WDZIR4

For TRASSIR License Plate Recognition

(with good light environment)

TR-D2353WDZIR7 2.7-13.5
TR-D2323WDZIR7 2.7-13.5
TR-D2223WDZIR7 2.7-13.5
TR-D2253WDZIR7 2.7-13.5



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