

**TRASSIR<sup>®</sup>**

**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

Technical support 24/7

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.

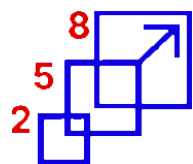


# TRASSIR cameras major benefits



TRASSIR cameras comply with the latest CCTV standards:

Deliver quality image thanks to:



High definition  
(2/5/8 MP)



WDR up to  
120 dB

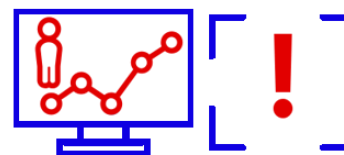


High sensitivity  
(0.0015 Lux and  
below)

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 hotline 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



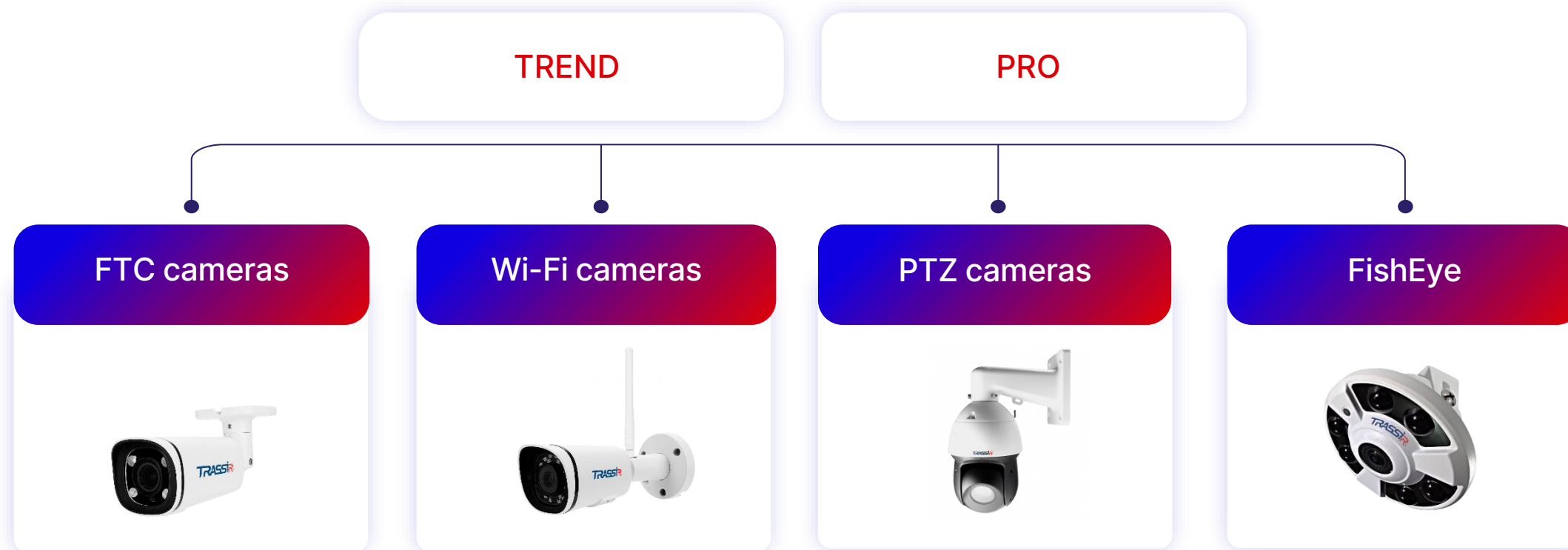
	CLOUD	ECO	TREND	PRO	ULTRA
	Cloud cameras for surveillance from anywhere in the world	Entry level cameras with basic features	Professional cameras for various objects	Project cameras with wide capabilities	High-performance video cameras with a wide range of features
TRASSIR VMS integration					
Resolution	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 interface			Some models have		



# TRASSIR cameras subseries

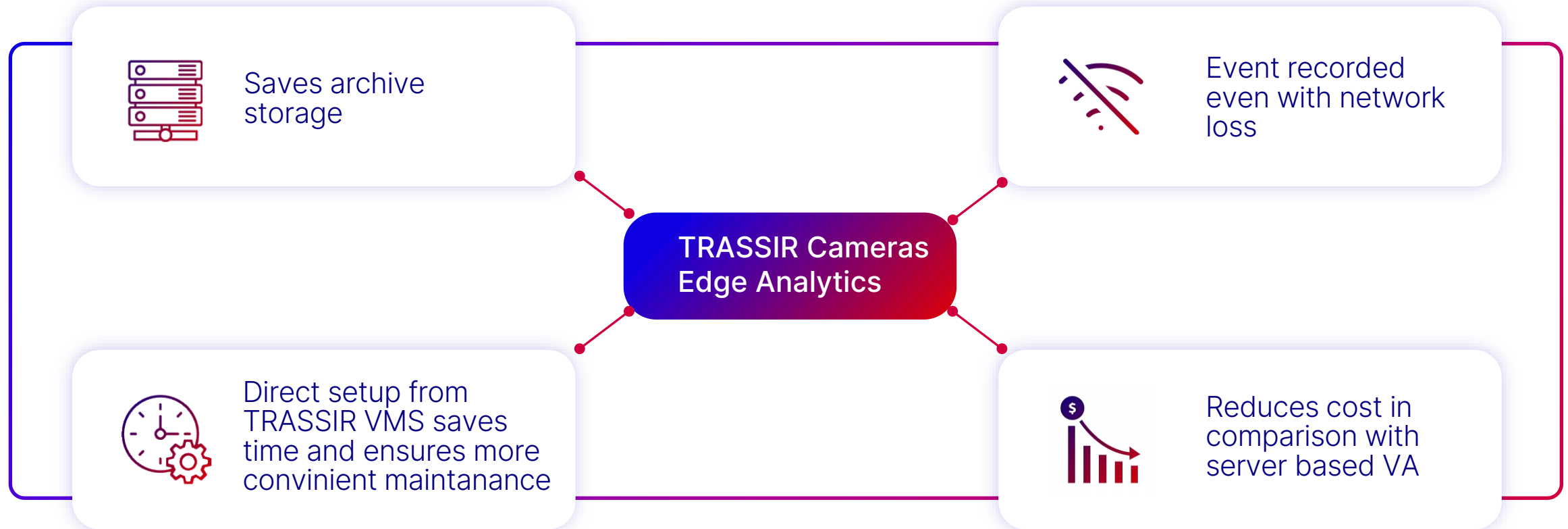


TREND & PRO are divided into several subseries



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 detector
- Territory control



## People Counting

- People counting



## Sabotage Detection

- Loitering
- Defocus Detection
- Sabotage Detector



## Crowd Detector

- Crowd Detection



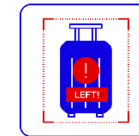
## Sound Detection

- Audio Detection



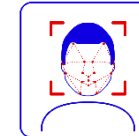
## AutoTRASSIR

- Speed detection
- Parking detection



## Left Objects Detector

- Abandoned objects
- Missing objects



## Face Detection

- Face detection

# User scenarios. Reactions

Edge analytics reactions on camera  
Available from TRASSIR web interface

## Alarm output



Sends in alarm output on camera

## Snapshot (to SD card)



Saves snapshot to SD card or sends to FTP, if there is no SD card inserted

## Record (to SD card)



Starts recording on SD card

## Audio output



Plays audiotrack from camera, mostly siren sound

## FTP



Send snapshot on FTP

## By rules

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

## By scripts

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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	Trigger to offer
ECO	Human detection, line crossing, zone control	<ul style="list-style-type: none"><li>Customer runs server; server video analytics, such as Neuro Detector, Neuro Counter, ActivePOS and others, that don't require specific cameras.</li></ul>
TREND	Human detection, line crossing, zone control  Trend 8 MP: Line crossing; Intrusion; Zone exit; Speed detection; Loitering; Crowd detection; Defocus Detection; Abandoned objects; Missing objects; Parking detection; Sabotage Detector; Audio detection	<ul style="list-style-type: none"><li>Customer needs to record audio with the help of MIC built-in.</li><li>Customer needs camera edge storage to ensure backup in case of network failure</li></ul>
PRO	AI: Human detection, line crossing, intrusion, loitering, people counting, face detection	Best to use with NeuroStation or UltraStation series NVRs
ULTRA	AI: Human detection, line crossing, intrusion, Object classification Vehicle / Humanloitering, people counting, face detection, TVS4000, Alarm in/out	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

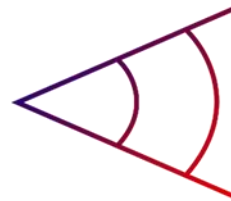


**SMART**

Edge analytics



Power over Ethernet and non-PoE models available



Lenses with fix and varifocal focus range



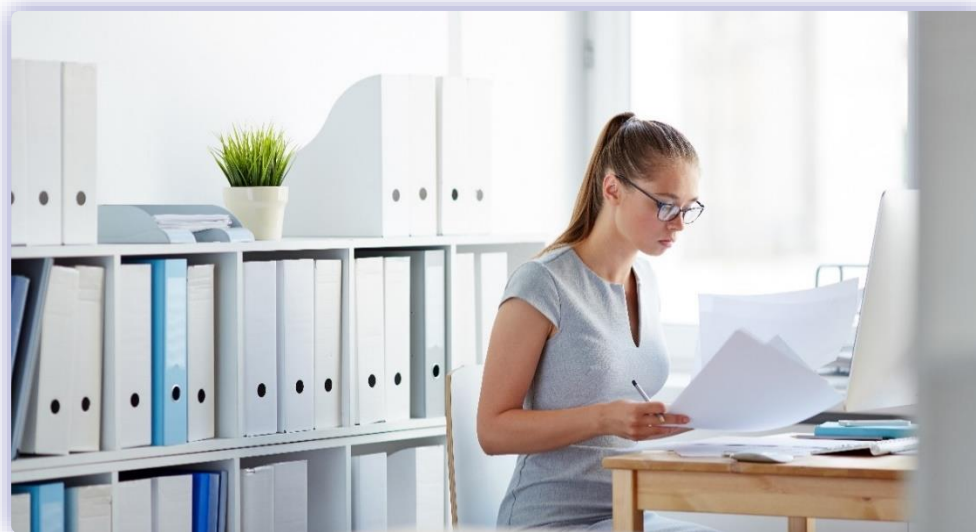
Integrated with TRASSIR



2 year warranty



## 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	Real WDR, VCA , TVS4000V	DWDR, Motion Detection, no lightning protection
Eco 4 MP	4MP@25 fps, VCA, TVS4000V	4MP@20fps, Motion Detection, TVS4000V

# TREND benefits



2, 5 и 8 MP  
Resolution



25 fps frame rate



Built-in Mic



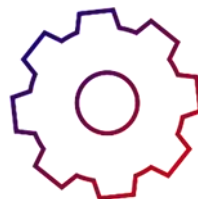
Latest industry-  
leading codecs are  
supported



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



TREND series are designed to build complex and robust video surveillance systems, where high resolution and wide choice of various enclosures are needed.



High Quality image



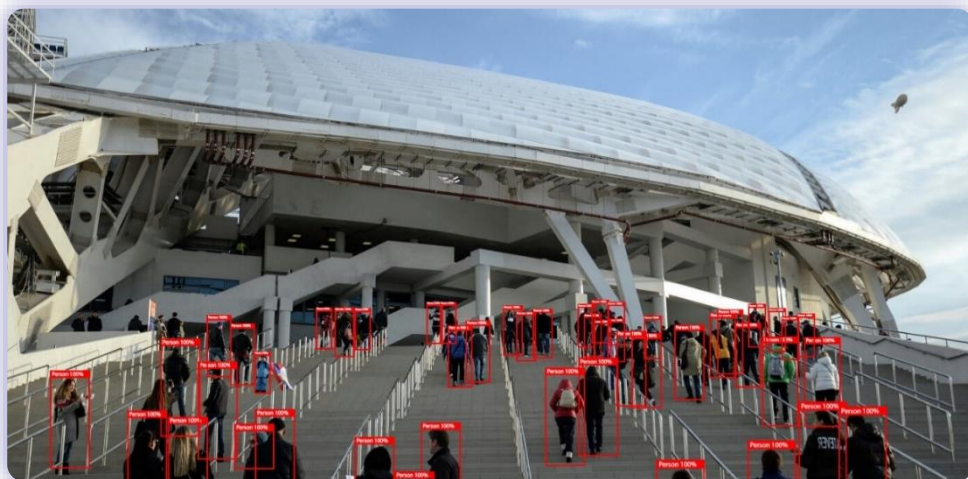
Outdoor-ready enclosures



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	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, TPS4000V	8MP@12.5fps, Motion detection, no lightning protection

# PRO series

TRASSIR®

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



High quality  
in challenging  
environment



Outdoor-  
ready



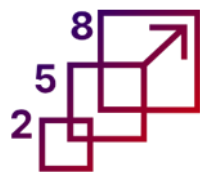
Edge  
analytics



Project  
protection



# PRO benefits



2, 5 и 8MP resolution



25 fps framerate



Built-in MIC



Audio in/out



Alarm in/out



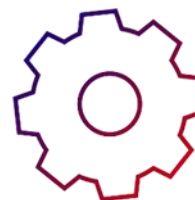
Latest industry-leading codecs



Edge analytics



Support SD-card for edge storage



Additional functionality like FTC, WI-FI, PTZ (coming soon), 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 2.0 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	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

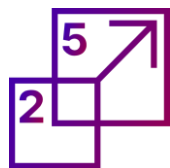
Conventional camera at night

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

Allows you to obtain color images even at low light environment

Maintains high detail and quality in the dark

# Major benefits



2 and 5 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 scen  
ario)



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



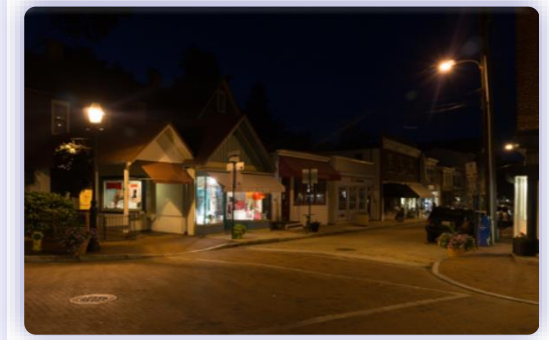
Use as additional lighting of the area, for example, on construction sites, on private territory.

## 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



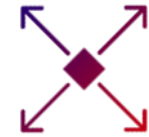
Optical zoom  
x25 and x33



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



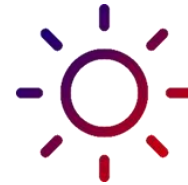
# PRO 5MP PTZ cameras main features



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

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(with good light environment)

TR-D3253WDZIR3 v2  
TR-D3353WDZIR4

## For TRASSIR License Plate Recognition

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(with good light environment)

TR-D2353WDZIR7 2.7-13.5 (еще не релиз)  
TR-D2323WDZIR7 2.7-13.5  
TR-D2223WDZIR7 2.7-13.5  
TR-D2253WDZIR7 2.7-13.5



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