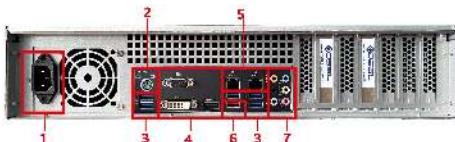# DATASHEET
TRASSIR NeuroStation

TRASSIR NeuroStation is a network video recorders for IP-cameras, running TRASSIR OS (Linux). It support processing video analytics based on neural networks: detection of people entering a zone, counting the number of people in a zone (for example, in a queue), as well as archive search. The video recorder also supports offload analytics (receiving and processing images transmitted from other TRASSIR servers).

Rear panel[1]

1. 220V power supply
2. PS/2 (keyboard or mouse)
3. USB 3.0
4. Video output interfaces
5. RJ-45 for Ethernet
6. USB 3.1
7. Audio inputs / outputs

Basic equipment

- Network video recorder (assembled and packaged) .... 1pcs.
- Mouse (USB) .... 1pcs.
- Keyboard (PS/2).. 1pcs.
- Power cord .... 1pcs.
- Video recorder rack mounting rails kit .... 1pcs.
- Datasheet .... 1pcs.
- Waranty card .... 1pcs.

Warranty service

- Specify the information about the warranty on www.trassir.com.

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[1] All rights reserved. Design and specifications are subject to change without notice..

Specification

General	
Operating system	TRASSIR OS (на базе ОС Linux)
IP video input	до 128 IP-каналов
Working temperature	10...30ºC
USB interfaces	2 USB 2.0 on front panel 5 USB 3.0, 1 USB 3.1 on rear panel
Net / Gross weight, kg[2]	14 / 17
Package / device dimensions (WxDxH), mm	580 x 710 x 200 / 482 x 550 x 89

Recording	
Resolution of cameras	No limits (depending on camera model[3])
Bitrate	720 Mbos
Playback rate	-32x - 32x

Audio / Video	
Video compression	H.265+, H.265, H.264, MPEG4 or MJPEG (depending on camera model[3])
Audio compression	G711a, G711u, PCM, AAC, G722.1 G726 MP2L2
Video output[4]	1 D-SUB(VGA), 1 DVI-D, 1 DisplayPort
Maximum video output resolution	D-SUB(VGA)/DVI-D – FullHD, DisplayPort - 4K[5]
Audioinputs / Audiooutputs	1 IN (jack 3.5mm) 1 OUT (jack 3.5mm)

Network	
Network interfaces	2 Ethernet 10/100/1000 Mbps
Network protocols	TCP/IP, IPv4/v6, UDP, DHCP, CloudConnect, DNS, NTP, SADP, SMTP, iSCSI, UPnP, HTTP/HTTPS, RTSP, ONVIF

Storage	
HDD[6]	Up to 8 HDDs

Power supply	
Power supply	220V
Power consumption	600W

Features	
Remote connection	Trassir client, Android / iOS mobile app TRASSIR Cloud cloud connection Up to 100 connections per server
SSL encryption support	Yes
Video analytics	Up to 2 channels of TRASSIR Neuro Detector (licenses included)[7]. Other modules are optional.

[2] Depending on the accessories used, the weight of the video recorder may vary by ±10%.

[3] You can find the list of the supported IP cameras and available working modes on www.trassir.com.

[4] You can connect up to 3 monitors to the video recorder.

[5] Supported when the hardware acceleration is enabled in TRASSIR.

[6] The capacity of the hard drive depends on the selected model. You can find a complete list of available combinations of TRASSIR Neurostation on www.trassir.com.

[7] The number of channels may vary depending on conditions and the software version. Please contact your sales representative for exact calculations

DATE OF PRODUCTION

SERIAL NUMBER

KEY NUMBER

TRASSIR NeuroStation server performance with video analytics:

TRASSIR module name	Description	Number of channels
Face Mask Detector	Protective face mask detector	6
Social Distance Detector	Social distance detector	20
AutoTRASSIR-30	License plate recognition up to 30 km/h	12
AutoTRASSIR-200	License plate recognition up to 200 km/h	4
Neuro Detector	Restricted Area Intrusion Detector	78
Crowd Detector	Crowd detector	128+
Queue Detector	People counter in the queue	128+
Direction Detector	Moving in forbidden direction detector	20
Neuro Counter	Zone crossing detector	20
Wear Detector	Workwear control	14
Hardhat Detector	Hardhat control	90
Staff Tracker	Staff quality tracker	14
Sabotage Detector	Video quality detector	33
Neuro Left object Detector	Left object detector	4
Bag Counter	Bag counter	4

Notes:

- The table shows the capability of the recorder to operate with video analytics modules without displaying video on the monitor (in case one module is launched on the recorder) in the Offload mode.
- The number of channels may vary depending on conditions and the software version. Please, contact your sales representative for exact calculations.

Combinations of TRASSIR modules compatibility on a single TRASSIR NeuroStation:

TRASSIR module name	Face Recognition	Face Mask Detector	AutoTRASSIR-30	AutoTRASSIR-200	Neuro Detector	Crowd Detector	Direction Detector	Neuro Counter	Social Distance	Queue Detector	Wear Detector	Staff Tracker	Hardhat Detector	Shelf Detector	Sabotage Detector	Neuro Left object Detector	Bag Counter	Pose Detector
Face Recognition	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Face Mask Detector	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
AutoTRASSIR-30	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
AutoTRASSIR-200	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Neuro Detector	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Crowd Detector	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Direction Detector	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Neuro Counter	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Social Distance	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Queue Detector	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Wear Detector	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Staff Tracker	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hardhat Detector	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Shelf Detector	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Sabotage Detector	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Neuro Left object Detector	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Bag Counter	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Pose Detector	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

Warning! The Face Recognition module is compatible with other modules on NeuroStation® server only if it runs on two video cards.

Notes:

- The table shows the data from the calculation of running two different modules at an average detection rate (an "average detection quality" is selected in the module settings). For more accurate calculation of the server load and running more modules, contact your sales representative.
- You can find a complete list of modules on trassir.com or in the price list.