

# AVT MiniCam AI Pro

## Advanced Industrial Vision Monitoring

Professional-grade camera monitoring software with  
real-time AI detection for industrial and laboratory environments



Fully compatible with AVT EMC 4K MiniCam  
as well as other USB cameras



- ⇒ Multi-camera monitoring of up to 4 simultaneous connected cameras
- ⇒ Lag-free 4K-optimized video pipeline
- ⇒ Adaptive grid layout (1x1, 1x2, 2x2)
- ⇒ Per-camera brightness, contrast, saturation, and hue control
- ⇒ Image rotation (each 90°) and mirror modes
- ⇒ Night mode with warm amber, blue-light filtering
- ⇒ Triple-engine AI detection
- ⇒ Motion, LED color and brightness/flash/fire detection
- ⇒ Up to 10 zones per camera with 4 zones shape
- ⇒ Fully compatible with NI MAX VISA Test panels
- ⇒ Recording of images and videos
- ⇒ Remote monitoring via network

**MADE IN GERMANY**

Ordering informations

AVT - MiniCamAIPro - x - y

4K MiniCam AI Pro Software

version  
B: basic version  
P: professional version

options

Technical specifications

Features

|                       |                                            |
|-----------------------|--------------------------------------------|
| Number of cameras     | up to 4 USB/DirectShow cameras             |
| Resolution of cameras | up to 4K (camera dependent)                |
| AI engines            | motion / color change / brightness         |
| Zone shapes           | rectangle / circle / triangle / hexagon    |
| Zones per camera      | up to 10                                   |
| Data storage          | images / videos / logs (user-configurable) |
| Stream protocol       | MJPEG over HTTP                            |
| Command protocol      | TCP/SCPI (NI VISA compatible)              |

Interactive detection zones

- Per-zone toggle for each detection engine
- Per-zone sensitivity control (0–100%)
- Drag-and-resize zone positioning on camera feed
- Visual alarm indicators (yellow → red on trigger)

Use cases

- Industrial quality control & production line monitoring
- Laboratory experiment observation & documentation
- Equipment status monitoring (LED indicator tracking)
- Safety surveillance (fire/flash/hazard detection)
- Test automation with NI VISA integration
- Remote monitoring via network dashboard

Contact

Errors and changes excepted.

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