

Video Cameras in Rolling Stock Applications

▲ System description

PIXY is able to offer to potential customers partially or total visualization solutions for video camera applications. These systems will be used for replacing classical rear mirror function / vandalism protection or supervision of doors (Handicapped people).

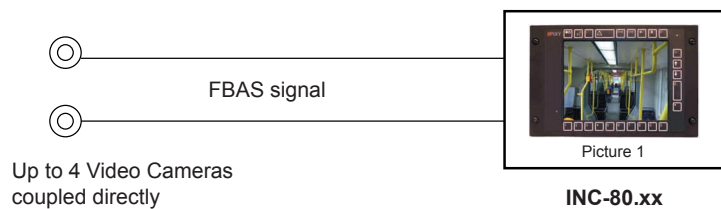
Depending on installation, our easy-to-use system allows capturing, retrieving or playing of critical information to support the train driver best.

▲ Key issues

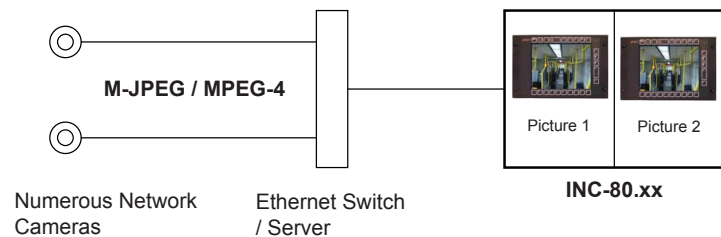
- Excellent image quality
- Real time monitoring by using analogue video cam's
- Processed monitoring by using TCP or digital cameras, strong MPEG/4 or M/JPEG support
- Designed to withstand harsh operating environments
- Certified for railways applications

▲ Possible technical solutions

- Analogue Video Input:



- TCP / IP Video Input:



▲ Conclusion

- User-friendly due intuitive operation
- pre-configured software installed on monitor, can be integrated in customers application
- running on various OSE (WIN XPe or LINUX)
- clear budget / clear solution

▲ Technical features

Hardware:

• Monitor:

- to be used for analogue and TCP/IP video cam's
- video processor for analogue video cam's with picture in picture feature
- powerful core logic for MPEG 4 or M/JPEG video streams
- optimized graphics controller

• Video Camera / analogue:

- sensitive CCD sensor
- high quality optical lens system, easy adjustable
- heating module allows use of camera also in arctic environment
- 1 picture VGA: 25 frames/s
- 2 pictures QVGA: 12 frames/s

• Video Camera TCP/ IP:

- sensitive CCD sensor
- high quality optical lens system, easy adjustable
- heating module allows use of camera also in arctic environment
- integrated core module for MPEG4 wrapping
- 1 picture VGA: 25 frames/s
- 2 pictures QVGA: 25 frames/s
- 4 pictures QVGA: 20 frames/s

• Server:

- robust design, shock- protected harddisk
- various inputs / outputs
- priority inputs for alarm supervision

Software:

• Analogue Video Software (Screensoft View):

- for WIN Xpe or LINUX
- full frame picture and zooming feature 1:10
- supports up to 4 cameras
- Software – API to customers application

• TCP/ IP Video Software (Screensoft view):

- for WIN Xpe / Active-X or LINUX
- efficient MPEG 4 encoder
- Software – API to customers application

• Server Evaluation Software:

- Enhanced analyzing software with numerous possibilities
- frozen image function for best analyzing
- to be installed on every WIN XP / Vista platform