TeleObserver TO1200

Remote Video Transmission via Fixed and Cellular Phone Networks ISDN - GSM/HSCSD - GPRS and DX version for external modems

The TO1200 is a powerful and flexible system for the transmission of live video images via standard and cellular phone networks.

The TO1200 owes its extraordinary transmission performance over all narrow band telephone networks to the unrivalled compression technology within. Additionally, the TO1200 is so comfortable to use, equipped as it is with connectors and interfaces, that it can be employed for constructing independent monitoring systems.

Different monitoring scenarios demand different transmission solutions.

And this is why the TO1200 is available in different versions each with a another type of modem. The GSM and GPRS versions for mobile operations without fixed network connection deliver up to three brilliant live colour images per second over the GSM and up to 6 images over GPRS network.

With an existing ISDN infrastructure, the system delivers up to 15 images via the internal ISDN modem.

On the receiver side, only a Windows PC or a Notebook (with a modem for ISDN and GSM resp. GPRS) is required, on which the receiver software must be installed. Whoever is often away on business can also use a PocketPC with the corresponding software to dial in over ISDN or GSM. The relay outputs of the TO1200 allow the control of external devices like smoke-guns, sirens or warning lights.

TeleObserver TO1200 – be in the picture.

Application Examples

The TO1200 covers a wide scope of application fields with its four versions ISDN, GSM, GPRS and DX.

The TO1200 ISDN is ideal for all monitoring scenarios in which fixed telephone lines are available:

- in banks and industrial objects;
- in potentially endangered selling areas like filling stations or jeweler's shops;
- in elevators and emergency telephones.

In these and other similar scenarios the TO1200 sees to it, by means of automatic alarm notification and live video transmission to a central monitoring station, that

- suitable measures can be taken in emergency cases;
- expensive false alarms are avoided;
- perpetrators can be directly addressed (via the second ISDN channel, with the aid of corresponding accessories) thus producing a psychological effect.

The TO1200 GSM and GPRS are ideal for all monitoring scenarios in which no fixed telephone lines are available:

- On construction sites, it allows the construction manager as well as the architects to control the progress of construction work and the flow of materials, independent of their own location.

- In public transport, the TO1200 helps to protect the passengers from assaults and the vehicles from vandalism.

- On remote, unmanned industrial grounds like wind parks, solar stations or sewage plants, the TO1200 can take over monitoring tasks and access control.

- Live images from vehicles support the commanding officers in fire brigade and police operations, secure the transport of valuables and allow new forms of market research.

- The TO1200 enables private users to assure themselves at any time that everything is all right at home, in the summer house or on the yacht.

The TO1200 DX has been designed to be connected to external standard or special modems (GSM, ISDN, GSMR, HSCSD or satellite modems). Accordingly, the applications are manifold.

System Description

Like all video transmission systems which belong to the TeleObserver family, the TO1200 works with the compression method H.263+. This makes it unrivalled in compression, quality and speed – independent of the network used for the transmission.

The TeleObserver TO1200 possesses an extensive basic configuration including inputs, outputs and interfaces thus offering the possibility of creating powerful monitoring systems with up to four cameras and other accessories that meet the requirements of most different situations.

Versions

- TO1200 ISDN with internal ISDN modem
- TO1200 GSM with internal GSM dual band modem (900/1800 MHz)
- TO1200 GPRS with internal GPRS/HSCSD modem
- TO1200 DX with additional serial interface for flexible modem connection

Inputs and Outputs

- up to 4 video inputs
- 5 alarm inputs
- 1 input for activation/deactivation of alarms 1 to 5
- 2 relay outputs

Software

Receiver software for PC and Notebook

- password-protected login
- reception of alarm-triggered video-calls from the transmitter
- acoustic and visual signalling of incoming alarms
- automatic recording of the received video data
- download of the alarm images stored in the device
- possibility to switch and control the cameras
- management of several transmitters
- password-protected remote configuration

Playback Software

- fast positioning onto alarm situations (motion histogram)
- export function for single images (BMP, JPEG) and video sequences (AVI)
- zoom function

PocketPC-Software (optional)

- mobile reception
- live camera switching
- management of several transmitters
- full-screen display
- selection of video quality

Transmission Performance

System version	TO1200 ISDN	TO1200 GSM	TO1200 GPRS	TO1200 DX
Frame rate	8 - 15 images/s	1 - 3 images/s	3 - 6 images/s	2 - 5 images/s
Network	ISDN	GSM	GPRS	e.g. HSCSD
Bandwidth	64,0 kbps	9,6 kbps	42,8 kbps	28,8 kbps
Audio	yes (parallel)	yes (alternative)	yes (alternative)	no

Presented by: