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## HVT100-RAM Digital Transmitter

Suitable for any kind of installation, the HVT100-RAM is a digital transmitter with 4 video inputs, 8 alarm inputs and 4 relay outputs completely manageable by using the "Supervisor" reception software. This is an application designed for PCs running under Windows that is usable by all the HVT product range. The communication between the HVT100-RAM and the receiver station can be made through PSTN, ISDN, GSM mobile technology or TCP/IP. For each type of communication there is a different HVT100-RAM model equipped with the appropriate internal modem or adapter.

To carry out the remote configuration (online or offline) of the recorder - transmitter, there is a specific programme that is included as a tool in the reception software. The communication and the configuration can be also performed locally by using a Nullmodem cable. The images are recorded on the RAM memory as independent video sequences (up to 8 sequences of 35 frames each). Simultaneous recording is

possible from all the cameras, even if they are not synchronised, with cameras having independent conditions and recording frequencies. The visual verification (VAV) feature enables automatic connection to the receiver station and transmission of the pre and post alarm images for visual verification by the operator, giving the possibility to review the sequence again while it remains stored in the memory.

The HVT100-RAM has been specifically designed to fulfil the observation and surveillance requirements of small or medium sized installations such as jewellers, shops or small businesses of any kind.

### Features

- Real time visualisation of the images obtained from any of the connected cameras (fixed or dome)
- Dome control (PTZ) for all Honeywell domes and many other manufactures domes through a control panel integrated in the receiving software
- Image settings for each camera and simultaneous quad viewing
- Indicator for signal loss of any of the cameras
- Visualisation of the status of the external devices connected to the alarm inputs as well as activation of those connected to the relay outputs
- Bi-directional audio transmission
- Images transmitted without interfering with ongoing recording process
- Recording and playback in the reception PC



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## Datasheet

### Technical Specification:

<b>Video inputs</b>	<p>4 channels with BNC connectors          4 selectable 75 Ohms loads          Automatic detection of the signal type of the installed cameras          Signal types: Mono (CCIR/EIA) or colour (PAL/NTSC) synchronised or non-synchronised          Automatic gaining control camera by camera. Signal level 1V p-p          Detection of video signal loss and online and offline image setting controls          Each input can be named using the configuration tool</p>
<b>Communication options</b>	<p>T = PSTN with 56kbps, internal modem, RJ11 connector          D = ISDN with 64kbps, internal modem, RJ45 connector          G = GSM with 900 -1800 MHz, internal modem, antenna          N = TCP/IP with Ethernet 10 base T internal adapter, RJ45 connector          RS232 port for local configuration and visualisation through a Nullmodem cable, or for remote control (dome or transparent channel)          Dynamic IP management with TCP/IP communication</p>
<b>Alarm inputs</b>	<p>8 non-isolated inputs for dry contacts          1 switchable screw terminal female connector          8 LEDs for local visualisation of the input status          Each input can be named using the configuration tool</p>
<b>Relay outputs</b>	<p>4 relay outputs with NO/NC contacts, 24V 1A switch power, 1 switchable screw terminal female connector          4 LEDs for local visualisation of outputs status          Each output can be named using the configuration tool          Automatic activation by the alarm inputs or by the remote triggering by the operator          Output 4 can be used to monitor the status of the equipment</p>
<b>Capture and Compression</b>	<p>Resolution: PAL 352x290, NTSC 365x232          Compression: differential image compression algorithm based on discrete cosine transfer (DCT) with background suppression (similar to MPEG4)          Compression size: 2-8KB per image (PAL)</p>
<b>Transmission</b>	<p>Transmission of up to 5ips according to the available bandwidth and the configuration Quad view</p>

The manufacturer reserves the right to alter the specification of products without prior notice.

<b>Event Recording</b>	<p>8 sequences of up to 35 images each can be recorded in RAM memory. The oldest sequences are automatically replaced by the recording of new sequences          Simultaneous recording from different cameras          Recording rate of up to 8ips according to the configuration          Recording of up to 60 seconds pre-alarm images per camera          Recording of up to 60 seconds of post-alarm images per camera</p>
<b>Event definition</b>	<p>Images recording and relay outputs activation, triggered by means of the alarm inputs and/or by internal status</p>
<b>Visual alarm verification</b>	<p>VAV of any of the installed cameras with automatic connection to a primary and a secondary number and transmission of the images of the alarm event for visual verification by the operator          * Not recommended for GSM</p>
<b>Audio</b>	<p>Bi-directional audio transmission using DSVD (Digital Simultaneous Voice and Data) with PSTN communication.          Microphone and speakers are not included</p>
<b>Caller ID</b>	<p>Quick answer / callback using the caller ID service (with RTC)</p>
<b>Playback of Stored video</b>	<p>Playback of stored sequences available even when they have been previously transmitted for their visual verification (VAV)          Simultaneous recording and playback</p>
<b>Configuration</b>	<p>Remote configuration tool with password protection          Configuration transfer and units software updating tool</p>
<b>Power supply</b>	<p>Power On/Off switch (I/O)          Voltage 12V DC with universal external adapter, UL, CSA, FCC and CE marked          Peak electric current: 1A (12V), nominal electric current less than 1A (12V), 12W</p>
<b>Physical data</b>	<p>Weight 1.65 Kg          Width x Height x Depth 260 x 78 x 199 mm</p>
<b>Ordering</b>	<p><b>HVT104-RAM-T</b> 4 channel digital transmission unit with PSTN connection  <b>HVT104-RAM-D</b> 4 channel digital transmission unit with ISDN connection  <b>HVT104-RAM-G</b> 4 channel digital transmission unit with GSM connection  <b>HVT104-RAM-N</b> 4 channel digital transmission unit with TCP/IP connection</p>

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