Advanced 4 Camera Triplex DVR with Network/Internet Access

(Model: TDVR4)

Easy back up:

The TDVR range is fitted with a USB Memory Stick socket for super fast backing up of recordings for archiving or evidential purposes.

In addition to USB Memory Stick backup the TDVR8 and TDVR16 versions have a built in CD Writer which allows you to back up direct to CDR or CDRW.

There is no need to connect the TDVR to a PC to backup, simply connect a USB Memory Stick or pop a CDR or CDRW in to the CD Writer, select the recording you wish to back up and the unit will do the rest, providing you with a CD of your selected recording.

To play the recording back on a Windows PC simply load the free Windows Playback Software supplied, on any compatible Windows PC and insert the USB Memory Stick or CD in to the PC and play.

Main Features in Detail:

Live Viewing Features:

- Full and Multi Screen Display: During live viewing on the TDVR4 (4 camera version) it is possible to view each camera full screen as a picture in picture or all 4 as a quad image, in addition to this on the TDVR8 (8 camera version) the cameras can also be viewed as an 8 camera cameo, and on the TDVR16 (16 camera version) as a 16 camera cameo also
- Real Time Live Display: On all models the cameras are displayed in real time for smooth movement in all displays views and at 720x 576 resolution for excellent quality when in full screen..
- Audio: All models have 2 audio inputs which can be monitored live during live viewing.
- Pan Tilt Zoom & Speed Dome Control: The TDVR range features Pan Tilt Zoom control of Pelco D protocol cameras and speed domes.
- Standard & VGA Monitor Support: All models have 2 standard BNC sockets for video output to TVs with Scart or AV inputs or CCTV monitors, and optional VGA output for connection to a PC

monitor by adding the BNC2VGA adaptor. In addition to this the TDVR8 and TDVR16 have an SVHS input for enhanced picture quality when used with SVHS compatible CCTV monitors.

- Network/Internet Live Viewing: Live viewing is also possible from a compatible Windows PC which is connected to the TDVR range via a local network or the internet. During live viewing by PC on the TDVR4 (4 camera version) it is possible to view each camera full screen as a picture in picture or all 4 as a quad image, in addition to this on the TDVR8 (8 camera version) the cameras can also be viewed as an 8 camera cameo, and on the TDVR16 (16 camera version) as a 16 camera cameo also.

Recording:

- Real Time Recording: The EDVRCD8 features real time recording at 360x288 resolution allowing it record in real time. The
  EDVRCD8 and EDVRCD16 record at near real time with 100 fps shared between all cameras.
- Removable Hard Drive: The TDVR4 features a removable hard drive which can be swapped for a second drive when full for longer recording times (if the recycle recordings function is not used) and can also be played back on a PC using the PC Playback Adaptor (Model: TDVRUSBR). The TDVR8 and TDVR16 do not have a removable hard drive as they have two internal hard drive bays.
- Near DVD Quality Recording: All models have a near DVD quality recording option which is 720x288 resolution recording. In
  this mode they will record at 50fps shared between all cameras.
- MJPEG Compression: The TDVR range uses MJPEG compression for the highest quality picture recording and lower file size when compared with wavelet compression. Recording times are up to 3 times longer than equivalent wavelet times. Up to 4 different recording qualities and 6 different fps recording speeds can be set allowing the user to adjust the quality and speed to achieve the best balance of recording time and picture quality.
- Audio Recording: As well as camera images all models will also record 1 audio input.
- Triplex Recording: The triplex recording feature of the TDVR range allows the user to select any camera full screen or as a multiscreen layout during live viewing without disturbing the recording of all cameras as full screen images. It also allows the user to playback recordings without having to stop current recordings, so that recordings are not interrupted, even when the TDVR range is being accessed remotely.
- Continuous Recording: The standard recording mode of the range is continuous recording, in this mode the DVR will record all
  the time.
- Motion Detection Recording: The range also includes a motion detection recording feature, this allows areas of each cameras
  view to be highlighted and then the DVR will only record when motion is detected in those areas. Allowing the DVR to record for
  much longer than continuous recording would achieve.
- Event Recording: The DVRs are fitted with alarm inputs for each camera input which will trigger recording of cameras if the
  corresponding alarm input is triggered. Allowing the DVR to record for much longer than continuous recording would achieve.
- Timer Recording: The DVRs will allow the user to set up a comprehensive timer schedule so that it only records during the times
  and days recording is required.
- Recording Recycling: Once the hard drive is full the DVRs can be set to re-record over the hard drive or display a message
  alerting the user that the hard drive is full.
- Network/Internet Recording: Recording is also possible from a compatible Windows PC which is connected to the TDVR range via a local network or the internet.

Playback:

- Full and Multi Screen Playback: During playback on the TDVR4 (4 camera version) it is possible to

view each camera full screen or all 4 as a quad image, in addition to this on the TDVR8 (8 camera version) the cameras can also be viewed as an 8 camera cameo, and on the TDVR16 (16 camera version) as a 16 camera cameo also.

- Playback Speed Control: The playback speed can be reduced by 16x and increased by 32x for accurate control during playback
- Recording Search: Recordings can be quickly and easily found by simply entering the time and date the user is looking for or by selecting from the motion or event recording lists, which list the time date and camera number that was recorded.
- Network/Internet Playback: Playback of recordings is possible from a compatible Windows PC which is connected to the TDVR range via a local network or the internet.

Backing Up:

- Back Up to USB Memory Stick: The TDVR range is fitted with a USB socket for easy backing up on to a USB Memory Stick. To back up the user simply connects a USB Memory Stick to the TDVR, selects the recording to be backed up and the unit does the rest. The USB Memory Stick can then be connected to any compatible Windows PC and the recordings played back using the free Windows Playback Software supplied, they can also be copied to a CD or DVD if the PC is fitted with a CD or DVD writer.
- Backup to CD: The TDVR8 & TDVR16 are fitted with a CD Writer for easy backing up on to CD without using a PC. To back up the user simply inserts a blank CD or CDRW disc and then selects the recording that needs to be backed up. The unit then copies the recording requested on to CD. This CD can then be played back on any compatible Windows PC by using the free Windows Playback Software supplied.

Networking/Internet Access:

- The TDVR range is fitted with a 10/100MB network socket which allows it to be accessed by a Windows PC (running the free Remote Viewer software supplied) over a network or internet connection. This then allows the Windows PC to view the cameras live, record them and play back recordings. The TDVR supports single user duplex remote access, this means that only one remote user at a time can log in to the TDVR and that whilst they are logged in they can select and view cameras, record them and playback recordings without interrupting the functions of the DVR locally. If you require multi user access then please see the X-vision WDVR & XDVR2 Professional DVR ranges..
- Recording Times: The following table shows an estimation of the recording space required to record for a day on all the different fps and picture quality settings that can be selected. The GB shown are per day of recording time, to calculate the time for a specific hard drive size that will be fitted in the DVR simply divide the GB shown by the hard drive size. (e.g. For 80Gb hard drive recording at 100 fps, Good Quality, 360x288 Resolution, the calculation will be 80GB divided 32GB (from table) which is 2.5 days.

Speed	1 fps						4 fps						12 fps					
Quality	Low		Good		Best		Low		Good		Best		Low		Good		Best	
Resolution(x288)	360	720	360	720	360	720	360	720	360	720	360	720	360	720	360	720	360	720
GB/Day (24Hours)	0.1	0.2	0.3	0.6	1.3	2.6	0.3	0.6	1.3	2.6	5.2	10.5	1.0	1.9	3.8	7.7	15.7	31.4

Speed	25 fps						50 fps						100 fps					
Quality	Low		Good		Best		Low		Good		Best		Low		Good		Best	
Resolution(x288)	360	720	360	720	360	720	360	720	360	720	360	720	360	720	360	720	360	720
GB/Day (24Hours)	2.0	4.0	8.0	16.0	32.7	65.5	4.0	8.0	16.0	32.0	65.5	130.9	8.0	N/A	32.0	N/A	130.9	N/A

Specifications:

Format:	PAL/CCIR
HDD:	80,160,250,320,500,800,1000GB (IDEx2)
Compression:	Xvision Wavelet+
Record Mode:	Continuous/Alarm/Timer/Motion
Record Speeds:	100,50,25,12,8,4 or 1fps
Playback Speeds:	1/16x to Real Time to 16x
Search Modes:	Search by Time, Date, Alarm, Motion
On screen Display:	Time, Date Camera Titles
Security:	Password Protection/Key Lock
Camera Inputs:	4 BNC Sockets (Video)
Monitor Output:	1 BNC Socket
Display Resolution:	720x576 in Real Time
Recording Resolution:	720x288 @50fps 360x288@100fps
Alarm Inputs:	4 sets to activate recording (NO/NC)
Alarm Output:	1 set
Power Source:	240V AC input Power Supply (supplied)
Operating Temperature:	-10C to +40C
Weatherproofing:	IP30 (indoor use only)
Dimensions (WxHxD):	435x120x285mm
Warranty:	1 Year Manufacturers Warranty