

## Join Interview Studio (JIS)



Join has worked with Police and Police Consultants to provide a digital system to replace the existing analogue systems in all interview environments. The requirements are to produce a system that is simple to operate and to offer the original system functions with extra features to provide a total solution in a modern police force. Join has considered all the requests and written software specifically for the Police. Since demonstrating the system there has been considerable interest from other markets, Human Resource Disciplinary Hearings, Hospital training, Courts and Golf Coaching sessions etc.

The fundamental function of one touch start/stop recording providing a **single** file that is **recorded directly to three DVDs and hard disk** is what is appealing to the wider market.

The challenge technically was to produce a real time synchronized video/audio recording that was simple to operate and yet had several specific functions in the background.

**Join has produced this unit!**

JIS will function as a stand-alone fixed unit or it can be utilized in a portable version. Join's traditional open architecture has made this unit easy to interface to court control systems like Crestron.

JIS is widely used in

- Police Interview Rooms
- Defense Force Enquiries
- Courts
- Hospital operating theaters

### **Physical description**

- Max 4 video in, 100fps global (PAL, NTSC)
- Max 4 audio in (linear in)
- 1 video out (PAL, NTSC)
- 1 audio out
- Audio Recorder interface
- 1 10/100M Ethernet
- 3 DVD Burners
- Keyboard (PS2 or USB)
- Mouse (PS2 or USB)
- 1 RS-232 port
- 1 USB port
- 1 VGA monitor port
- 19-inch case (450mm\*450mm\*95mm) for fixed unit

### **Function :**

JIS series network disk video recorder utilizes JOIN high performance real-time multitasking operating systems to perfectly implement all the functions needed to build an interview system.

- MP4 Format Real time recording on up to 4 channels
- Synchronized audio
- Synchronized note recording
- Watermarking on each file

JIS has indicators to show available space left on HDD and DVDs. It will issue on screen and audio warnings at 30 minutes recording time left, 15,10 and 5 minutes recording time left.

JIS will prompt user to ensure all DVDs are loaded before recording starts.

When central backup is selected, JIS will export last recording to selected IP and Directory address before commencing new recording.

All the software is controlled and considered to make the system totally stable and reliable.

## Compression function:

Each video channel is compressed independently in 25F/S(PAL) or 30F/S(NTSC), using MPEG 4 H.264 algorithm . Each audio channel is compressed independently, using Ogg Vorbis standard . The output bit rate is 16 kbps.

The output video and audio stream is combined to generate the complex H.264 stream. Video and audio is synchronized from beginning to end when stream is played back.

Supports following resolutions:

- PAL:4CIF (704\*576),
- 2CIF(704\*288),
- CIF(352\*288),

Supports user notes. Allows user to type notes that are synchronized with video.

Supports touch screen and remote controls

Supports water-marking.

## Network Functions:

Supports TCP/IP

Supports broad-band transmission (ADSL).

Supports narrow-band transmission (PSTN).

JIS will automatically backup to central server (Selectable)

JIS parameters can be set through password protected, easy on-screen menus.

Recorded Files are exported with a player and a patch (for use with Windows media player) when DVDs are inserted in other machines files will automatically play.



**Storage Functions:**

- Unit burns up to 4 channels of video and audio to 3 DVDs and Hard Disk simultaneously in a single file.
- Will record up to 12 hours of continuous files

**Preview & Playback Functions:**

Supports VGA;

Supports local file Playback and DVD playback, supports:

- play fast
- play slow
- pause
- play frame by frame;

**Others:**

User-friendly menu interface;

Multi-level user priority;

**JIS Specification:**

Video Compression	MPEG 4 , H.264
Preview Resolution	PAL: 704*576 NTSC: 704*480
Compression Resolution	4CIF, 2CIF, CIF
Watermarking	Multiply Encryption Technology (MET)
Video Input	4 Channels BNC (1.0Vp-p, 75Ω)
Video Output	1 x VGA
Frame rate	PAL: 25 F/S; NTSC: 30 F/S
Stream Type	Mixed stream
Bit rate	2Mbps
Audio Input	4Channels, BNC (Linear Electrical Level , Resistance:1000Ω), SNR > 83DB
Audio Compression	OggVorbis
Audio bit rate	16Kbps
Communication Interface	1 RJ45 10M/100M UTP Network , 1 RJ45 for RS232, 1 RJ45 for RS485
Keyboard Interface	PS2
Serial Link Interface	RS-232, RS 485
HDD IDE Interface	4 IDE, support 8 HDD
USB Interface	Supports USB flash disk,
VGA Interface	Support 800×600/60Hz , 800×600/75Hz , 1024×768/60Hz
Power Supply	90--135VAC or 180--265VAC, 47--63 Hz
Power Consumption	47W (without HDD)min
Working Temperature	-10 -- + 50
Working Humidity	10%--90%
Size	19inch (450mm*450mm*95mm)
Weight	25 Kg (JIS without HDD)