



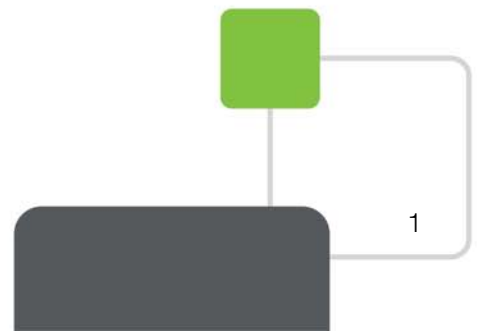
New Product Release – Package 10

XT[2] System and Software

03 September 2009

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1. Introduction

Multicam 10.01 is compatible only with XT[2] servers with A2/A4 MTPC and A2/A3 MTPC (without floppy disks). Juki motherboard is no longer supported. It will not run on XT Servers and due to change in the recorded file structure clips made in previous software versions lower than Version 9 will not be playable in a Server running Multicam 10.01.

ALL CLIPS CREATED ON VERSION 9 OR LATER ARE COMPATIBLE WITH 10.01. NO CLEAR CLIP IS NEEDED.

If the clips archived on an XF[2] were made on a version lower than Version 9 they are reconstructed to make them compatible with version 10.01 as they are restored.

When starting an XT[2] server a choice of software will be offered to the user but clips **WILL HAVE** to be cleared when changing Software versions **TO OR FROM** a version lower than Version 9. For more details on the installation and boot screens for Multicam 10.01 please follow this link: [Installation guide for Multicam 10.](#)

When an XNet[2] Media Sharing Network contains XT and XT[2] servers then Multicam 8 software can only be used to retain compatibility.

2. New Operational Features of Multicam 10.01.

2.1. DVCPRO HD and DVCPRO 50 support

XT[2] and XS servers now natively support the Panasonic DVCPRO HD and DVCPRO 50 codecs. This allows common formats to be recorded natively on the Servers and sent to both Final Cut Pro or Avid to be placed directly on the timeline. Currently there is no Super Motion support on this Codec.

2.2. Video Quad Split Support

Improves the monitoring of 4 channels on a quad display.

2.3. Hypermotion Support

Previously in most uses of a Hypermotion camera there would be an extra controller to control the record and playback of the hypermotion recordings. The recordings would then be assigned to an XT[2] input channel and then recorded onto the server to be clipped or played on a delay into the transmission.

There is now a new menu (Page 6.4) within the Setup menu of the XT[2] remote to enable this controller to control the record/playback of the Hypermotion system and make the clips from it.

```
Hypermotion configuration P.6.4
[F1]HyPermotion : No
[F2]Recorder : Cam D [F6]RS422 : 6
[F3]Remote Mode : HyPermotion + LSM

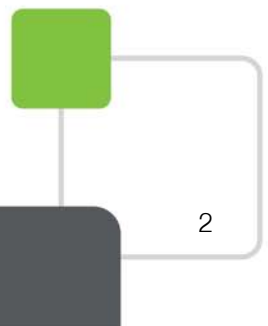
[Menu]Quit [Clr+F_]Dft [F9]PgUp [F0]PgDn
```

Active Transport commands

- Play – to play media stored on the camera
- Mark – marks a cue point on the media
- Last cue – recues to the last marked point on the media
- Record – Starts a recorded on the camera.
- Take - Stops rec on the camera
- Jog : jog wheel
- T-Bar : play. By default range from 0 to 100%

Two configurations are possible

- Hypermotion only
- Hypermotion + control of 1 PGM



Possible parameters

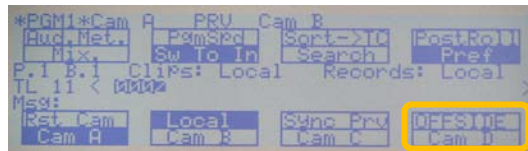
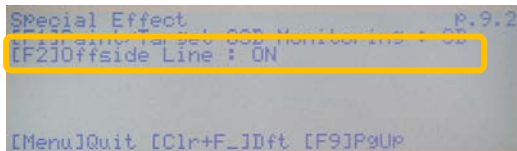
Parameter	Description	Possible Values
Continuous in ...	Specifies whether the timecode should be continuous for the whole playlist or for each playlist element.	PLST, CLIP
From ...	Specifies the initial TC value to be used for the timecode regeneration	Timecode, LTC TC, User TC
In ...	Specifies the TC type in which the timecode should be regenerated	LTC or VITC in SD HANC VITC, HANC LTC or both

2.6. Offside Line



A simple and easy to use new feature generates a highlighted area which can be positioned on a picture to reinforce an aspect of play in a particular sport. This could be an offside decision in football, a forward pass in rugby, a close finish in horse racing etc.

The feature is enabled and set up from page 9.2 (Setup menu) of the remote panel. When it is enabled, it appears on the Shift+D key on the remote.



When activated a new menu set appears as below and the relevant buttons to use are lit.



2.7. Increase number of clips

```

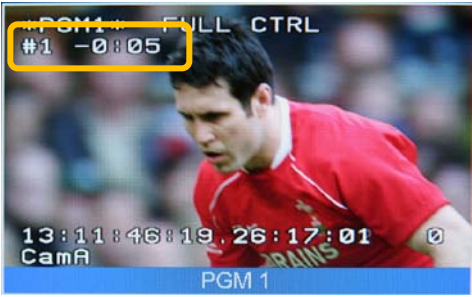
SETUP CONFIGURATION PAGE 1
H+ESC:UGA EXPLORER <SH>F3:RESET<ALL> F6:KW1 F7:KW2 F8:SRCH F9:CLIP F10:PLST Zi
Time Code Settings
REC 1 : LTC USER Prim.TC Local Clips : 100/32000
REC 2 : LTC HANC LTC LTC Network Clips : 259/32000
Network Speed : 1485Mbps NoRelay
Network Mode : Master # 02
Multicam v 10.01.31 / 43.31
1000i 50.00 Avid DNxHD 1920pix 120Mb
Date: 19/05/09 - Time: 09:51:21
OSD Settings Clip Management UGA Settings
Genlock error : Yes Autaname clip : Disable UGA & RMI Sync : No
Disk error : Yes Call Ch. UGA : Disable Channel Names
Network error : Yes Keyword file : PGM 1 : PGM1
Keyword Info : No Date format : dd/mm/yy PGM 2 : PGM2
Audio meters on OSD : Yes Dft Wfile : PGM 3 : PGM3
Audio meters adj.<db>: 00 Reset archive sts [ENTER] PGM 4 : PGM4
Network Settings Record Trains CAM A :
Clip edit by network : No Continuous loop rec : ON CAM B :
Resync to TC ref [ENTER] RS422 Protocols ID Type : ID LSM
  
```



There can now be 32000 clips on the Xnet Network as compared to 16000 previously.

2.8. Cue point change

When recalling a cue point the OSD display now shows both the number and the preroll value used.



3. Engineering Features of Multicam 10.01.

Many of the Features of Multicam 10.01 are improvements in the set-up and monitoring.

3.1. New Setup Configuration Screens

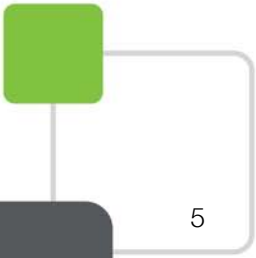
On the Setup Configuration Screen (SHIFT+F2) there are more features:

- Page 4 - GPI Settings: contains new features (see description in section 1.2.2. here above)
- Page 6 - LAN Connection Settings: allow networking with other computers for remote monitoring and Software upgrades (see section 1.3.4.)
- Pages 7, 8, and 9 – Sony BVW75 and Editrec Settings: are for the New Editrec feature, please see here [LSM Configuration Manual – sections 2.10 & 2.11](#) for details

3.2. 16 Channels of Audio per Video Channel

When using Embedded audio in a four channel configuration there can be up to 16 mono audio channels per video channel. The OSD display has been changed to reflect the new configuration.

Also, the audio routing tables in the XT configuration screens now have 2 pages to accommodate the extra audio channels



3.3. 1080P and 3D Support

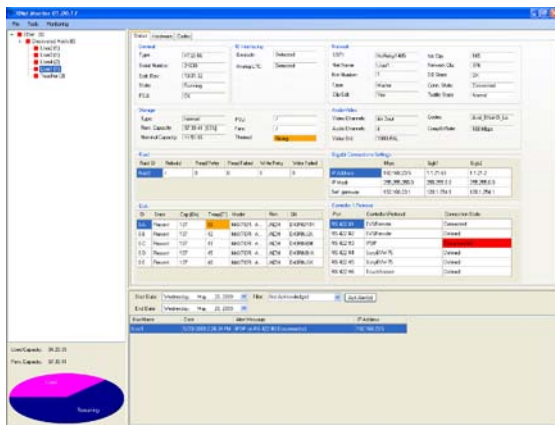
Native recordings of both 1080P and 3D require 2 signals to be recorded to make the final image. The XT[2] server now supports the recording and playback of these formats using dual link and dual stream technology. This combines channels to achieve the final pictures resulting in effectively a 3 channel device.

3.4. SNMP

The XT[2] servers now support an Ethernet connection to the LAN port on the PC board, this allows for monitoring of the Server remotely.

It also allows:

- Extracting and zipping of log files from the servers without closing down or using the USB port
- Alert traps (to troubleshoot remotely)
- Monitoring from different stations
- Monitoring through XNet Monitor interface or a custom/3rd party tool (Thomson NetCentral, Evertz,...)



XNet Monitor is a tool aimed at monitoring EVS products. XNet Monitor displays real time information and status about the servers as well as past alerts and warning messages. It uses the SNMP (Simple Network Management Protocol) protocol to request and receive monitoring data from the servers.

In the Setup Configuration module (SHIFT + F2), press the Page Down key until you access the page 6. It displays IP connection parameters for the HCTX board and the MTPC board.

```

SETUP CONFIGURATION PAGE 6
SH+ESC:UGA EXPLORER <SH>F3:RESET<ALL> F6:KW1 F7:KW2 F8:SRCH F9:CLIP F10:PLST -Zi

HCTX Gigabit connection settings
Port #1
IP Address      1. 1. 20. 1
Subnet Mask    255.255. 0. 0
Default Gateway 128. 1.254. 1
Port #2
IP Address      128. 1. 2. 22
Subnet Mask    255.255.255. 0
Default Gateway 128. 1.254. 1

FTP Login
User name      evs
Password       evs!

PC LAN connection settings
Port #1
IP Address      1. 1. 20. 22
Subnet Mask    255.255. 0. 0
Default Gateway 1. 1. 20. 1

[APPLY]
    
```



4. New Hardware Complimenting Multicam 10.01.

4.1. MTPC Board (LAN access)

The function of the PC board is mainly the control of the Video hardware via the software and to interface the peripheral equipment (i.e. remote controller, IPDirector, 3rd Party control, etc) with the Video hardware. The latest revision of the board is A2/A4 which has an HS870 motherboard and a new time code management module. There is also control available from Multicam 10.01 software to set the IP Address of the LAN connection on the MTPC.

Many existing systems already have this board but to upgrade to version 10.01.XX the XT[2] server must have this board. An easy way to tell if it is the correct board is to check if there is still a floppy drive on the MTPC board. If it is not present the board is OK to upgrade.

5. Bug Fixes up to 10.01.XX

Please see the [Release Notes](#) in the Download Center of the Website (Support & Training page – Package 10.01) for full details on all fixes to determine if a previously reported bug has been fixed.

But major operational bugs are listed here:

- Go to TC is now available again on network trains
- In super LSM the stop on short-out was done on the wrong TC
- Impossible to clear individual cue points – Cue point management has been reviewed
- Sort TC : clip would not load if the requested TC was on the out point
- A new sort-TC request inside results was giving back the initial results
- From the Setup remote - change of kwd on the server – distribution not done
- Sync Prv was impossible on remote trains with a different Primary TC
- Various bug fixing related to search on remote using keywords in numeric mode
- Search Net - Clip+Rec – with Keywords would retrieve local trains as well