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Technical Document

# Multicam 11 Installation Guide



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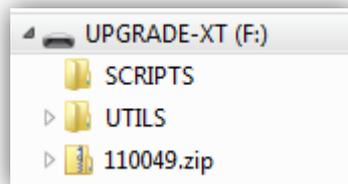
## Introduction

Before proceeding to the Multicam 11 installation-upgrade procedure, we do suggest you to carefully read this guide and the corresponding release notes.

Multicam 11 can only be installed on XT[2], XT[2]+, XT[3], XS-5U, XS-6U, XTNano,XSNano and XL systems running with an MTPC revision: A2/A3 or A2/A4

The installation files are delivered in a zip archive comprised of two folders (image & install):

- Extract this zip file to a temporary folder on your windows PC
- Insert a blank USB key (256MB or larger) into the PC and check the letter drive assigned to the USB key.
- In the temporary folder, double-click on "MakeUSB.bat" and follow the instructions
- Indicate the drive letter assigned to the USB key
- The key will be formatted and installation files are copied to the USB key



## Installation on MTPC A2/A3 or A2/A4 (USB-only model)

Insert the USB key into the MTPC front panel of the XT series server and reboot the system to proceed to the installation menu:

### Installation Menu

```
EVS Multicam 11.00.xx Instalation Menu

Main Menu

1. EVS Multicam 11.00.xx Upgrade
2. Format C: drive and install Multicam 11.00.xx
3. Maintenance
4. Support contacts

Enter a choice: 1_

[UP/DOWN] -> Navigate, [ENTER] -> Select item, [ESC/BACKSPACE] -> Previous Menu
```

From the install menu, you have four options presented:

1. **EVS Multicam Upgrade:** This option means that only the core files of the Multicam 11 application will be copied to the system drive partition, and a process is used to migrate previous configuration files into the upgraded version.
2. **Format C: and Install Multicam:** This install option means a full format of the system drive partition will be performed, and then a clean install of Multicam 11 afterwards.
3. **Maintenance:** will allow access to various support process and tools like BIOS reloading
4. **Support Contacts:** will reveal contact information for EVS support offices





```
Remove the usb stick and reboot.  
D:\>
```

It's important to note that during the installation of the Multicam 11, the configuration lines will be converted to be compatible in Multicam 11.

NOTE: If after the installation of Multicam 11 you change the active version to a version older than Multicam11, your configuration lines will not be readable anymore by the version of Multicam loaded. You can however restore the old M10 lines see the section "Restore M10 lines: for M10 use only" for more details.

### First upgrade from a Multicam 10 to Multicam 11

When you upgrade your multicam 10 to a multicam 11 for the first time, the system will proceed to an upgrade of the quad MTPC.

#### *Installation with Xnet monitor*

During the install with the Xnet Monitor, your server will restart automatically then install the new version and start the screen where you can launch a config line. On this screen a warning message will appear on the screen



The message ask you to power off/on the server. A simple reboot of the software is not enough, **you have to turn off/on the power switch**. During the restart, the quad MTPC will be upgrade. Once the upgrade finished, the server continue to boot normally. The total duration of the operation (upgrade Multicam + quad MTPC and restart) is around 12 minutes.

#### *Installation with a USB key*

When you have start the upgrade from the Instalation menu, the server upgrade the multicam then at the end, ask you to remove the key and restart the server. During the restart, the quad MTPC will be upgrade.

Once the upgrade finished, the server continue to boot normally. The total duration of the operation (upgrade Multicam + quad MTPC) is around 12 minutes.











This command will restore the old M10 lines backed up during the upgrade from a Multicam 10 to a Multicam 11. These lines are useable only with a Multicam 10 not with a Multicam 11.

**NOTE:** If you want to run a M10, you have to restore the M10 lines before to change the version from M11 to M10. Indeed there is no possibility to restore the M10 lines from a M10.

### XHub Upgrade

```
EVS Multicam 11.00.xx Installation Menu

XHub Upgrade

1. Multicam 11 - Upgrade XHub to version 3.03
2. Multicam 11 - Upgrade XHub[2] to version 3.03

Enter a choice: 1

[UP/DOWN] -> Navigate, [ENTER] -> Select item, [ESC/BACKSPACE] -> Previous Menu
```

The XHub and HXub[2] could be updated through the Multicam. You can use this menu to update them to the 3.03 version. When you have chosen an option, the procedure is described step by step on the VGA.

**NOTE:** For the XHub[3] the Multicam server is no longer able to upgrade directly from the RS232 port. The USB port of the hub is used to install the last firmware version 3.04 and higher from a windows computer.

### BIOS reset for HS87x

If needed, the Multicam can reset the BIOS of the MTPC. Two choices are available; the option chosen depend of the hardware used for the VGA.

```
EVS Multicam 11.00.xx Installation Menu

BIOS reset for HS87x

1. Reset BIOS for multicam 9 and later - Defaultsettings (640*480)
2. Reset BIOS for Multicam 9 and later - Enhanced settings (1024*768)

Enter a choice: 1

[UP/DOWN] -> Navigate, [ENTER] -> Select item, [ESC/BACKSPACE] -> Previous Menu
```

### Exit to dos

The DOS prompt will allow the user to exit to a traditional DOS prompt to edit copy and manage files



## Support contacts

|                               | WORKING HOURS      | NON WORKING HOURS  | EMAIL                      |
|-------------------------------|--------------------|--------------------|----------------------------|
| <b>*APAC*</b>                 |                    |                    |                            |
| Australia                     | +61 02 9452 8600   | +61 420 30 73 87   | support@evs-asia.com.hk    |
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| Hong Kong                     | +852 94 01 23 95   | /                  | support@evs-asia.com.hk    |
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| Belgium                       | +32 4 361 70 00    | +32 495 284 000    | support@evs.tv             |
| France                        | +33 1 46 99 9003   | +32 495 284 000    | support.france@evs.tv      |
| Germany                       | +49 89 4111 949 77 | +32 495 284 000    | support.germany@evs.tv     |
| Iberica                       | +34 91 490 39 33   | +32 495 284 000    | support.iberica@evs.tv     |
| Italy                         | +39 334 631 1493   | +32 495 284 000    | support.italy@evs.tv       |
| Middle East                   | +971 4 3654 231    | +32 495 284 000    | support.middle-east@evs.tv |
| UK                            | +44 1372 387 266   | +32 495 284 000    | support.uk@evs.tv          |
| <b>*NALA*</b>                 |                    |                    |                            |
| Canada                        | +1 514 400 9369    | +1 514 400 9369    | support.canada@evs.tv      |
| Mexico                        | +52 55 46 31 22 09 | +52 55 46 31 22 09 | /                          |
| Usa                           | +1 973 575 7813    | +1 973 575 7813    | support.usa@evs.tv         |
| Press any key to continue ... |                    |                    |                            |



## Exploring the Multicam 11 startup menu

When booting the XT server after a Multicam 11 installation, this start-up menu is displayed each time:

```
EVS Multicam 11.00.xx Startup Menu

Main Menu

1. Boot Multicam 11.00.xx
2. Maintenance
3. Support

Enter a choice: 1

[UP/DOWN] -> Navigate, [ENTER] -> Select item, [ESC/BACKSPACE] -> Previous Menu
```

If you want to boot the Multicam 11, press option <1>

If you want enter the maintenance menu, press <2>

If you want to display contact and support information, press <3>

## Boot Multicam 11

If this option is selected, the system will proceed past the initial boot menu into the Multicam version that is currently active. The initial boot menu will proceed after 5 seconds if the user does not press a key.

## Maintenance menu

The maintenance menu offers different possibilities to maintain the server. The user has the possibility, among other things, to manage the version, upgrade an Xhub and reset the BIOS.

```
EVS Multicam 11.00.xx Startup Menu

Maintenance

1. Versions
2. XHub Upgrade
3. BIOS reset for HS87X
4. Exit to DOS
5. Start OS with PC LAN support

Enter a choice: 1

[UP/DOWN] -> Navigate, [ENTER] -> Select item, [ESC/BACKSPACE] -> Previous Menu
```

### Versions

Since Multicam 9, it is now possible to have up to 5 pre-installed Multicam versions on the server.

From the boot menu, users can now select a maintenance menu where they can easily and quickly swap to another Multicam version. A quick install is done in the background and users can upgrade or downgrade in a minute without using the USB key.

```
EVS Multicam 11.00.xx Startup Menu

Versions

1. Change active versions
2. Delete a specific version
3. Delete all versions
4. Restore M10 lines (for M10 use only)

Enter a choice: 1

[UP/DOWN] -> Navigate, [ENTER] -> Select item, [ESC/BACKSPACE] -> Previous Menu
```

#### *Change active version*

When changing the active Multicam version, a series of warning messages might appear. Due to differences of operating system and file management between Multicam 8 and Multicam 11, an automatic BIOS update is performed and clearing the video disks is required whenever an upgrade is engaged.

```
EVS Multicam 11.00.xx Startup Menu

Change active version

1. 1100xx
2. 1100yy
3. 1100zz

Enter a choice: 1

[UP/DOWN] -> Navigate, [ENTER] -> Select item, [ESC/BACKSPACE] -> Previous Menu
```



*Delete a specific version*

See section “Delete a specific version” of the installation menu

*Delete all versions*

See section “Delete all versions” of the installation menu

*Restore M10 lines: for M10 use only*

See section “Restore M10 lines: for M10 use only” of the installation menu

**XHub Upgrade**

See section “XHub Upgrade” of the installation menu

**BIOS Reset for HS87X**

See section “BIOS reset for HS87x” of the installation menu

**Exit to DOS**

The DOS prompt will allow the user to exit to a traditional DOS prompt to edit, copy and manage files

**Start OS with PC LAN support**

This mode allows booting for purposes of file transfer from the PC LAN, but will block the bootup of the system. This does not allow for defining the PC LAN Address, and must have been defined previously.





## Support & contact information

|                               | WORKING HOURS      | NON WORKING HOURS  | EMAIL                      |
|-------------------------------|--------------------|--------------------|----------------------------|
| <b>*APAC*</b>                 |                    |                    |                            |
| Australia                     | +61 02 9452 8600   | +61 420 30 73 87   | support@evs-asia.com.hk    |
| China                         | +86 139 1028 9860  | +86 139 1028 9860  | support@evschina.com       |
| India                         | +91 22 6697 2215   | +91 98 9017 5958   | support.india@evs.tv       |
| Hong Kong                     | +852 94 01 23 95   | /                  | support@evs-asia.com.hk    |
| <b>*EMEA*</b>                 |                    |                    |                            |
| Belgium                       | +32 4 361 70 00    | +32 495 284 000    | support@evs.tv             |
| France                        | +33 1 46 99 9003   | +32 495 284 000    | support.france@evs.tv      |
| Germany                       | +49 89 4111 949 77 | +32 495 284 000    | support.germany@evs.tv     |
| Iberica                       | +34 91 490 39 33   | +32 495 284 000    | support.iberica@evs.tv     |
| Italy                         | +39 334 631 1493   | +32 495 284 000    | support.italy@evs.tv       |
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| UK                            | +44 1372 387 266   | +32 495 284 000    | support.uk@evs.tv          |
| <b>*NALA*</b>                 |                    |                    |                            |
| Canada                        | +1 514 400 9369    | +1 514 400 9369    | support.canada@evs.tv      |
| Mexico                        | +52 55 46 31 22 09 | +52 55 46 31 22 09 | /                          |
| Usa                           | +1 973 575 7813    | +1 973 575 7813    | support.usa@evs.tv         |
| Press any key to continue ... |                    |                    |                            |

## ADVANCED PROCEDURES

### Adding multiple versions on the XT server

Since Multicam 9, it has been possible to have multiple pre-installed Multicam versions on the server.

Adding Multicam versions is possible by three different processes.

- When creating the USB key prior the installation procedure
- Directly adding files onto the XT server in a specified location.
- Directly adding files onto the XT server by FTP

#### Adding a version when creating the USB key

*Example: Adding a Multicam 10.04.30 when creating the USB key of version 11.00.XX*

- 1) Download the zip file of the version 11.00.XX on the EVS web site
- 2) Extract the 11.00.XX zip in a temporary folder. The zip contains two folders (image & install).
- 3) Download the zip file of the version 10.04.30 on the EVS web site
- 4) Extract the 10.04.30.zip in a different temporary folder.
- 5) In the temporary folder of 10.04.30 use MakeZip.bat
- 6) Extract the zip created to the folder **Install\ADDONS\VERSIONS** in the temporary folder of 11.00.XX
- 7) Create a usb key using MakeUsbKey.bat in the temporary folder of 11.00.XX

#### Adding a version directly on the server

*Example: Adding a Multicam 10.04.30 directly onto the server*

- 1) Download the zip file of the version 10.04.30 on the EVS web site
- 2) Extract the 10.04.30 zip in a temporary folder. The zip contains two folders (image & install).
- 3) Create an usb key by using MakeUsbKey.bat in the temporary folder of 10.04.30
- 4) Create the file 100430.zip by using MakeZip.bat in the temporary folder of 10.04.30
- 5) Extract the 100430.zip in the USB key
- 6) Insert the key in the server and reboot
- 7) In the maintenance menu choose exit to dos
- 8) In the DOS, go to D:\VERSIONS
- 9) Create a folder 100430 for the version with the following command: `mkdir 100430`
  - a. *Note: do NOT add the '.' Between the numbering*
- 10) Copy the folder 100430 from the key to the disk with the following command : `xcopy /E C:\100430 D:\VERSIONS\100430`
- 11) Reboot. You are now able to switch to the version 10.04.30 in the maintenance menu



### Adding a version by FTP

*Example: Adding a Multicam 10.04.30 by FTP*

- 1) Download the zip file of the version 10.04.30 on the EVS web site
- 2) Extract the 10.04.30 zip in a temporary folder. The zip contains two folders (image & install).
- 3) Create the file 100430.zip by using MakeZip.bat in the temporary folder of 100430
- 4) Open a ftp session on the server either by your classic FTP client either through the Xnet monitor
- 5) Extract the Zip file 100430.zip in the folder C\VERSIONS of the server
- 6) Reboot. You are now able to switch to the version 10.04.30 in the maintenance menu





## Location of EVS & AVCFG parameters

In Multicam 11 the way to store the parameters files has changed. The file structure has been completely redesigned. The files used in Multicam 11 are not compatible with the files used in the previous versions.

The lines are now located in **\\LSMCE\DATA\SETUP** as CFG000XX.LIN files

Old (prior to M11) AVCFG configuration parameters that have been converted during the M11 boot are located in **\\LSMCE\DATA\SETUP\OLDAVCFG**

When creating the USB installation key, SETUP files can be inserted in the temp folder (**\\Image\LSMCE\DATA\SETUP**) to allow pre-configure files to be dropped by the Multicam 11 installer.



## Downgrade from Multicam 11 to Multicam 10

When you want to downgrade your Multicam from a M11 version to a M110 version please follow this procedure in order to recovery your old M10 lines. This procedure is usable if you have already a M10 version installed on the server

### Restore the M10 lines

- 1) Go to the Startup Menu

```
EVs Multicam 11.00.xx Startup Menu

Main Menu
  1. Boot Multicam 11.00.xx
  2. Maintenance
  3. Support

Enter a choice: 1

[UP/DOWN] -> Navigate, [ENTER] -> Select item, [ESC/BACKSPACE] -> Previous Menu
```

- 2) Select the Maintenance sub menu

```
EVS Multicam 11.00.xx Startup Menu

Maintenance

 1. Versions
 2. XHub Upgrade
 3. BIOS reset for HS87X
 4. Exit to DOS
 5. Start OS with PC LAN support

Enter a choice: 1

[UP/DOWN] -> Navigate, [ENTER] -> Select item, [ESC/BACKSPACE] -> Previous Menu
```

- 3) Select the Versions sub menu

```
EVS Multicam 11.00.xx Startup Menu

Versions

 1. Change active versions
 2. Delete a specific version
 3. Delete all versions
 4. Restore M10 lines (for M10 use only)

Enter a choice: 1

[UP/DOWN] -> Navigate, [ENTER] -> Select item, [ESC/BACKSPACE] -> Previous Menu
```

- 4) Select the "Restore M10 lines (for M10 use only)" item

## Change the version

- 1) In the Versions menu select the sub menu Change active versions

```
EVS Multicam 11.00.xx Startup Menu

Versions

1. Change active versions
2. Delete a specific version
3. Delete all versions
4. Restore M10 lines (for M10 use only)

Enter a choice: 1

[UP/DOWN] -> Navigate, [ENTER] -> Select item, [ESC/BACKSPACE] -> Previous Menu
```

- 2) In the new menu, select your M10 version
- 3) Your server will activate the M10 version and reboot.