INSTALLATION MANUAL

Version 12.05 - September 2014



Multicam_•LSM





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Your comments will help us improve the quality of the user documentation. Do not hesitate to send improvement requests, or report any error or inaccuracy on this user manual by e-mail to <u>doc@evs.com</u>.

Regional Contacts

The address and phone number of the EVS headquarters are usually mentioned in the Help > About menu in the user interface.

You will find the full list of addresses and phone numbers of local offices either at the end of this user manual (for manuals on hardware products) or at the following page on the EVS website: http://www.evs.com/contacts.

User Manuals on EVS Website

The latest version of the user manual, if any, and other user manuals on EVS products can be found on the EVS download center, on the following webpage: http://www.evs.com/downloadcenter.

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1. **Prerequisites**



Before you install Multicam 12 or upgrade to this software version, we suggest that you carefully read this guide and the corresponding release notes.

Requirements

Multicam 12 can only be installed on XT2+, XT3, XS (4U, 5U or 6U), XTnano and XSnano systems running with one of these MTPC revisions: A2/A3, A2/A4, A3/A5 or A3/A6 (HS870 or HS873).

To be able to install Multicam 12, at least 256 MB of RAM is mandatory.

Generating the Installation Files

BAT Files

The installation files are delivered in a zip archive including two folders (Image & Install).

Two bat files are delivered with the zip archive. They allow you to generate the following installation files:

- The Make XNet Install Zip.bat file is to be used to generate a .zip installation file for installation from XNet Monitor.
- The MakeUSB.bat file is to be used to generate the installation files on a USB key for direct installation on the EVS server.

How to Generate the Installation Files on a USB Key

This method for generating installation files is used when you directly install Multicam on the EVS server.

To generate the installation files on a USB key, proceed as follows:

- 1. Extract the initial zip archive to a temporary folder on your windows PC.
- 2. Insert a blank USB key (256MB or larger) into the PC and check the letter drive assigned to the USB key.
- 3. In the temporary folder, double-click the MakeUSB.bat file and follow the instructions.
- 4. Indicate the drive letter assigned to the USB key.
- 5. The key is formatted and installation files are copied to the USB key.



How to Generate the Installation Zip File

This method for generating installation files is used when you install Multicam from an XNet Monitor application.

To generate the installation zip file, proceed as follows:

- 1. Extract the initial zip archive file to a temporary folder on your windows PC.
- 2. In the temporary folder, double-click the Make XNet Install Zip.bat file.
- 3. When the installation zip file is created, the following message is displayed on the command prompt:



The installation .zip file is stored on C:\temp\xtinst, and its name is made up of the current release, version and build numbers.

4. Copy the installation .zip file to the computer where XNet Monitor is installed, and from which you will install the Multicam application.

Refer to the XNet Monitor user manual for a detailed procedure for Multicam installation via XNet Monitor.



2. Installation on MTPC using a USB Key

2.1. Overview of the Installation Menu

To access the installation menu, you need to insert the USB key including the Multicam installer into the MTPC front panel of the EVS series server and reboot the system.



From the installation menu, four options are presented:

- 1. **EVS Multicam Upgrade:** This option means that only the core files of the Multicam 12 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 formatting of the system drive partition will be performed, followed by a clean installation of Multicam 12.
- 3. **Maintenance:** This option allows the access to various support processes and tools such as BIOS reloading.
- 4. **Support Contacts:** This option provides contact information to EVS support offices.

2.2. Memory Check

Before starting the installation of Multicam 12, the system will check if enough memory is installed on the server. The system needs at least 256 MB of RAM.

If not enough memory is detected, the following message will be displayed:

*******	***
********	***
t#	**
** Not enough memory to install or start Multicam 12.	**
t*	**
Please contact your EVS regional office.	**
t*	**
***************************************	***
***************************************	***

2.3. EVS Multicam 12 Upgrade

2.3.1. General Upgrade Process

Introduction

For upgrading to a more recent version of Multicam, you need to select the first option in the Installation Menu: **EVS Multicam 12.XX.XX Upgrade**.

The upgrade is performed automatically. The total duration of the operation (upgrade Multicam + quad MTPC) is around 12 minutes.



Warning When you upgrade to Multicam 12 for the first time and you want to keep clips recorded with a Multicam 11 or lower, you need to back up the clips with XTAccess prior to upgrading Multicam.

A full installation process include the following steps. Some of the steps are optional and/or depend on the version previously installed:

- 1. check of current version (warning when you have to perform a clear clip after installation)
- 2. upgrade of Multicam
- 3. update of the MTPC BIOS
- 4. upgrade of the quad MTPC (when you upgrade to Multicam 12 for the first time)
- 5. notification to set a jumper for the VGA2TV adapter

The steps 1, 3, 4 and 5 are briefly explained in this section.



Check of the Current Version

Before the installation, the installer first detects if a Multicam version is present and which version is currently installed. The following warning message is displayed:

!!	!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	ļ
!		ļ
!	This MULTICAM version is not compatible with versions older than 12.0	ļ
!		ļ
!	If you are upgrading from a version prior to 12.0, a Clear Disks	ļ
!	MUST be performed before starting the application for the first time	ļ
!		ļ
!!		l
Co	ntinue[Y,N]?	

This warning states that the Multicam version you wish to install is not compatible with previous versions: If you upgrade from Multicam 11 or a lower version, you **must** clear the video disks before starting Multicam 12 for the first time.

The clips and video material recorded in Multicam 11 or lower are indeed not compatible with Multicam 12. To keep clips created with Multicam 11, you first need to archive them, and then restore them with XTAccess after you have upgraded to Multicam 12.

Selection of MTPC BIOS Update Type

After the installation, an automatic update of the MTPC BIOS will be performed if needed. During this process the following dialog box will prompt you to choose between two options for configuring the VGA resolution.



Activation of Composite Video Signal on VGA

After the MTPC BIOS update, a warning message will appear which reminds you to set a jumper on the MTPC if you use the VGA2TV adapter (i.e. ability to output the VGA as a composite video signal). If you do not use this adapter, this jumper change is not required.

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End of Installation Process

To complete the installation procedure, a dialog box will prompt you to remove the USB before rebooting the EVS server.



Compatibility of Configuration Lines

It is important to note that during the installation of Multicam 12, the configuration lines will be converted to be compatible with Multicam 12.

If after the installation of Multicam 12 you change the active version to a version older than Multicam 11, your configuration lines will not be readable anymore by the loaded version of Multicam. You can however restore the old Multicam 10 lines as explained in "How to Restore the Multicam 10 lines" on page 21.

2.3.2. First Upgrade to Multicam 12

Warning

When you upgrade to Multicam 12 for the first time and you want to keep clips recorded with a Multicam 11 or lower, you need to back up the clips with XTAccess prior to upgrading Multicam.

If you have already performed the upgrade to Multicam 12, you need to restore the previous Multicam version installed (Multicam 11 or 10), back up the clips, and then restore the Multicam 12 version.

If you start Multicam 12 coming from a previous Multicam version without first clearing the video disks, you will receive an error message during startup:



An error occurred while trying to start the system (init uCode) (0x0001003C/0x00000006)
<u><ок></u>

This message is followed by a more detailed explanation:

Multicam failed to start. The server will reboot automatically. If you upgraded from Multicam 11 or below or if you have changed the multi essence configuration, try to clear the video disks. Otherwise, if the problem persists, contact your EUS regional office.
KOK>

The startup procedure is interrupted and Multicam comes back to the setup screen. From this screen, you can clear the video disks and restart your Multicam 12.

2.3.3. End of Upgrade Process

Installation with a USB Key

When you have started the upgrade from the Installation menu, the server upgrades the Multicam. When the upgrade is finished, you are asked to remove the USB key and restart the server.

During the restart, the quad MTPC will be upgraded. Once the upgrade is finished, the server continues to boot normally.

Installation with XNet Monitor

During the installation with XNet Monitor, your server will restart automatically then install the new version and open the window where you can launch a configuration line.

A warning message might appear on the screen:

r
A firmware upgrade is required.
Please power off/on the server
to proceed with the upgrade.
1
<u>< 0 k ></u>
L

The message asks you to power off/on the server. In this case, 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 upgraded. Once the upgrade is finished, the server continues to boot normally.

2.4. Format C: Drive and Install Multicam 12

Introduction

When you install Multicam for the first time or when you want to erase all the content of the system drive partition and perform a full installation, you need to select the second option in the Installation menu: **Format C: and install Multicam 12.XX.XX**.

A full install starts by erasing all the contents of the system drive partition.

EVS Multicam 12.01.xx Installation Menu
Main Menu
1. EVS Multicam 12.01.xx Upgrade
2. Format C: drive and install Multicam 12.01.xx
3. Maintenance
4. Support contacts
Enter a choice: 1_
[UP/DUWN] -> Navigate, [ENTER] -> Select item,[ESC/BACKSPACE] -> Previous Menu

Besides the upgrade process itself, some additional actions are performed during installation, which generate messages and require a user input.

These additional steps are described in this section.



Check of the Current Version

Before the installation, the installer first detects if a Multicam version is present and which version is currently installed. The following warning message is displayed:

!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	!!!!!!!!!!!
!	!
! This MULTICAM version is not compatible with versions older than 12.	0 !
!	!
! If you are upgrading from a version prior to 12.0, a Clear Disks	!
! MUST be performed before starting the application for the first time	: !
!	!
Continue[Y,N]?	

This warning states that the Multicam version you wish to install is not compatible with previous versions: If you upgrade from Multicam 11 or a lower version, you **must** clear the video disks before starting Multicam 12 for the first time.

The clips and video material recorded in Multicam 11 or lower are indeed not compatible with Multicam 12. To keep clips created with Multicam 11, you first need to archive them, and then restore them with XTAccess after you have upgraded to Multicam 12.

Formatting of System Drive Partition

A second warning states that the system drive partition will be cleared during this operation.



Pressing **N** will cancel the operation and return to the installation menu if you have selected the option by mistake.

Pressing Y will proceed to the format of the drive before installing the Multicam 11.

From this point onwards, the installation follows the normal process described in the "General Upgrade Process" on page 4.

2.5. Maintenance Menu

2.5.1. Overview of the Maintenance Menu

From the Installation menu, the Maintenance option opens the following Maintenance menu. Refer to the next sections for more information on the various maintenance tasks.



2.5.2. Partitioning

Use this option only if you want to completely format the MTPC drive. This option removes all existing partitions and re-creates a new empty partition of 2GB in FAT16.

Consequently, you have to proceed to choice 2, which consists in formatting the system and eventually installing the Multicam application.

When you select the Partitioning option, the following warning message appears and invite you to confirm that you want to proceed to partitioning by typing **Y**.



2.5.3. Versions

Introduction

When you select the Versions option from the Maintenance menu, the Version window is displayed. As you can install up to five Multicam versions on the EVS server, you can manage these versions and delete one or more versions if needed. The Version window allows you to manage the Multicam versions installed on the EVS server.

The following options are offered and explained below:

- Delete a Specific Version
- Delete all Versions
- Restore Multicam 10 Lines

Highlight the requested option with the Arrow keys, then press **Enter** to either open a secondary window, or validate the action.

How to Delete a Specific Version

The **Delete a Specific Version** option in the Version menu allows you to remove one or more versions from the server.

From the list of Multicam versions installed on the EVS server, highlight the version you want to delete using the Arrow keys, and press **Enter** to validate.



How to Delete All Versions

The **Delete All Versions** command clears all versions installed. A warning message asks for confirmation before going ahead.



How to Restore Multicam 10 Lines (for Multicam 10 only)

This command restores the old Multicam 10 configuration lines backed up during the upgrade from a Multicam 10 to a higher version of Multicam. These lines are useable only with a Multicam 10, not with a higher version.

If you are running a Multicam 12, and want to run a Multicam 10 again, you have to restore the Multicam 10 lines **before** you change the version from Multicam 12 to Multicam 10. Indeed there is no possibility to restore the Multicam 10 lines once downgraded to Multicam 10. See section "Downgrading from Multicam 12 to Multicam 10" on page 20 for more information about a downgrade from Multicam 12 to Multicam 10.

2.5.4. XHub Upgrade

The XHub and XHub[2] versions can be updated through Multicam. You can use this menu to update them to the 3.03 version.

When you have highlighted an option using the Arrow keys and pressed **Enter**, the procedure is described step by step on the VGA.



For the XHub[3] the Multicam server is no longer able to upgrade directly from the RS232 port. The USB port of the XHub[3] hardware is used to install the last firmware version directly from a windows computer.





2.5.5. BIOS Reset for HS87x

If needed, the Multicam can reset the BIOS of the MTPC. Two choices are available; the option to be selected depends of the hardware used for the VGA.



2.5.6. Exit to DOS

The DOS prompt will allow the user to exit to a traditional DOS prompt that allows performing advanced and complex maintenance and support operations.

2.6. Support & Contact Information

	WORKING HOURS	NON WORKING HOURS	EMATI.
APAC			
Australia	+61 02 9452 8600	+61 420 30 73 87	<pre>support@evs-asia.com.hk</pre>
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
* <u>EMEA</u> *			
Belgium	+32 4 361 70 00	+32 495 284 000	support@evs.tv
France	+33 1 46 99 9003	+32 495 284 000	<pre>support.france@evs.tv</pre>
Germany	+49 89 4111 949 77	+32 495 284 000	<pre>support.germany@evs.tv</pre>
Iberica	+34 91 490 39 33	+32 495 284 000	<pre>support.iberica@evs.tv</pre>
Italy	+39 334 631 1493	+32 495 284 000	<pre>support.italy@evs.tv</pre>
MiddleEast	+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
NALA			
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	<pre>support.usa@evs.tv</pre>
Press any k	ey to continue		



3. Exploring the Startup Menu

3.1. Overview of the Startup Menu

When booting the EVS server after a Multicam 12 installation, the following startup menu is displayed each time:

- If you want to boot the Multicam 12, highlight option <1> and press Enter.
- If you want to enter the Maintenance menu, highlight option <2> and press Enter.
- If you want to display contact and support information, highlight option <3> and press **Enter**. See section "Support & Contact Information" on page 14.

		EVS M	ulticam	12.01.3	x Startup	Menu			
Main Me	nu								
1. 2. 3.	Boot Multica Maintenance Support	m 12.0	1.xx						
Enter	a choice: 1								
TUP/DOWN1	-> Navigate.	TENTE	R1 -> S	elect it	em. [ESC/B	ACKSPACEI	->	Previous	Menu

3.2. Boot Multicam 12

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

3.3. Maintenance Menu

3.3.1. Overview of the Maintenance Menu

From the Startup menu, the Maintenance option opens the following Maintenance menu. This menu, which is similar to the Maintenance menu available from the Installation menu, offers different possibilities to maintain the server. The user has the possibility, among others, to manage the version, upgrade an XHub and reset the BIOS.

EVS Multicam 12.01.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/DOWN1 -> Navigate. [ENTER] -> Select item.[ESC/BACKSPACE] -> Previous Menu

Option	Description
Versions	Allows users to delete one or more Multicam versions on the EVS server. See section "Versions" on page 17.
XHub Upgrade	Allows users to upgrade XHub and XHub[2] versions. See section "XHub Upgrade" on page 12.
BIOS reset for HS87X	Allows users to reset the BIOS of the MTPC. See section "BIOS Reset for HS87x" on page 13.
Exit to DOS	Allows users to exit the startup and open a DOS command prompt. See section "Exit to DOS" on page 14.
Start OS with PC LAN Support	Allows users to start the OS, only for the purpose of file transfer via PC LAN. See section "Start OS with PC LAN Support " on page 18

The following table presents the various options and refers to the relevant sections:



3.3.2. Versions

Introduction

When you select the Versions option from the Maintenance menu, the Version window is displayed. As you can install up to five Multicam versions on the EVS server, you can manage these versions and delete one or more versions if needed. The Version window allows you to manage the Multicam versions installed on the EVS server.



The following options are offered and explained below:

- Change Active Version
- Delete a Specific Version
- Delete all Versions
- Restore M10 Lines

Highlight the requested option with the Arrow keys, then press **Enter** to either open a secondary menu, or validate the action.

How to Change the Active Version

With this option, you can easily and quickly swap to one of the Multicam versions installed on the EVS server. A quick extraction is done in the background and you can upgrade or downgrade in minutes without using the USB key.

When changing the active Multicam version, a series of warning messages might appear. Due to differences in operating system and file management between Multicam 8 and Multicam 12, an automatic BIOS update is performed and clearing the video disks is required whenever an upgrade is engaged between incompatible Multicam versions.

		EVS Multic	am 12.01.:	xx Startup	Menu		
Change	active version	n					
	1001						
1.	1201xx						
2.	1201уу						
3.	1201zz						
Rutor	- choice 1						
Enter	a choice: 1						
[UP/DOWN]	-> Navigate,	[ENTER] ->	Select i	tem, [ESC/BA	CKSPACE]	-> Previous 1	lenu

How to Delete a Specific Version

See section "Versions" on page 11 in the installation menu.

How to Delete All Versions

See section "Versions" on page 11 in the installation menu.

How to Restore M10 lines (for Multicam 10 use only)

See section "Versions" on page 11 in the installation menu.

3.3.3. Start OS with PC LAN Support

This is an advanced maintenance mode, not advised unless you feel comfortable with the server.

This mode allows booting to perform file transfers from the PC LAN, but will block the boot up of the system. This does not allow for defining the PC LAN address that must have been defined previously.



4. Advanced Procedures

4.1. Adding Multiple Versions on the EVS Server

4.1.1. How to Add a Version when Creating the USB Key



This procedure is an advanced operation and is not advised to be performed unless you feel comfortable with the server and you follow the procedures described in this section.

Example: How to Add a Multicam 11.02.80 when Creating the USB Key of Version 12.05.XX

- 1. Download the zip file of the version 12.05.XX from the EVS web site.
- 2. Extract the 1205XX zip in a temporary folder. The zip contains two folders (Image & Install).
- 3. Download the zip file of the version 11.02.80 on the EVS web site
- 4. Extract the 110280.zip in a different temporary folder.
- 5. In the temporary folder of 110280 use MakeZip.bat.
- 6. Extract the zip created to the folder \Install\ADDONS\VERSIONS in the temporary folder of 12.05.XX
- 7. Create a USB key using MakeUsbKey.bat in the temporary folder of 12.05.XX.

4.2. Location of EVS & AVCFG Parameters

From Multicam 11, the way to store the parameter files has changed. The file structure has been completely redesigned. The files used from Multicam 11 are not compatible with the files used in the earlier versions.

The line definitions are now stored in \LSMCE\DATA\SETUP as CFG000XX.LIN files

Old AVCFG configuration parameters (prior to Multicam 11) that have been converted during the Multicam 12 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-configured files to be dropped by the Multicam 12 installer.

4.3. Downgrading from Multicam 12 to Multicam 10

4.3.1. Overview



Warning

If you want to run a Multicam 10 version again, you have to restore the Multicam 10 lines before changing the version from Multicam 12 to Multicam 10. Indeed there is no possibility to restore the Multicam 10 lines once downgraded to Multicam 10.

Introduction

When you want to downgrade your Multicam from a Multicam 12 version to a Multicam 10 version, follow the three-step process specified below and the corresponding procedures.

This procedure can be used if you already have a Multicam 10 version installed on the server.

- Restoring the Multicam 10 lines
- Downgrading the Multiviewer
- Changing the active version



4.3.2. How to Restore the Multicam 10 lines

1. Go to the Startup Menu.



2. Select the Maintenance sub menu.

EVS Multicam 12.01.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				
[UP/DOWN] -> Navigate, [ENTER] -> Select item, [ESC/BACKSPACE] -> Previous Menu				

3. Select the Versions sub-menu.

EVS Multicam 12.01.xx Startup Menu
Versions
1. Change active versions
2. Delete a specific version
3. Delete all versions
Restore M10 lines (for M10 use only)
Enter a choice: 1
$IUP/DOWN1 \rightarrow Navigate. [ENTER] \rightarrow Select item.[ESC/BACKSPACE] \rightarrow Previous Menu$

4. Select the Restore M10 lines (for M10 use only) option and press Enter to validate.

4.3.3. How to Downgrade the Multiviewer

When you downgrade to a Multicam 10 version, you have to manually downgrade the internal Multiviewer available through the MTPC board.

To downgrade the Multiviewer, proceed as follows:

- Prepare a USB key with the installation files for a Multicam version 11.XX or 12.02 as described in the procedure "How to Generate the Installation Files on a USB Key" on page 1.
- 2. Inset the key into the EVS server on which you need to downgrade the Multiviewer
- 3. Power off and on the EVS server.
- 4. In the Startup menu, select the option Maintenance (2) to enter the Maintenance menu.
- 5. In the Maintenance menu, select the option Exit to dos (4) to open the DOS command prompt.
- 6. In DOS, navigate to C:\UTILS\Quad.
- 7. Force the server to execute the ug_mtpcq file with the following command: ug_mtpcq.exe -f.



4.3.4. How to Change the Active Version

1. In the Versions menu select the sub menu Change active versions.

EVS Multicam 12.01.xx Startup Menu
Versions
1. Change active versions
2. Delete all versions
4 Restore M10 lines (for M10 use only)
Enter a choice: 1
$[UP/DOWN] \rightarrow Navigate. [ENTER] \rightarrow Select item.[ESC/BACKSPACE] \rightarrow Previous Menu$

2. In the new menu, select your Multicam 10 version.

Your server will activate the Multicam 10 version and reboot.

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