

This guideline illustrates the installation of the C-MOR Video Surveillance Virtual Machine with the free Virtualization Software VirtualBox from Oracle. The free VM version of C-MOR is here available: <u>http://www.c-mor.com/video-surveillance-download</u>.

C-MOR Video Surveillance Software Downloads	0
C-MOR Video Surveillance VM Manual Setup C-mor-video-surveillance-v4-12pl09.zip	Details Download
C-MOR Video Surveillance VirtualBox de c-mor-video-surveillance-virtualbox-en-v4-12pl09.zip	Details Download
C-MOR Video Surveillance VMware ESX	Details Download
C-MOR Video Surveillance Xen Server di c-mor-video-surveillance-v4-11pl08-xen.zip	Details Download

The first step of the installation is the download of Oracle's VirtualBox. This package is freely available under <a href="http://www.virtualbox.org">http://www.virtualbox.org</a>.

If another virtualization software like VMware, Xen, HyperV or other is already in use then this can be used instead, if the installation process is known. VirtualBox is available for Windows and for Linux.

Once VirtualBox is installed it will start by clicking on the program icon. Click on "New" in the VirtualBox to start the installation of the new C-MOR VM.



VirtualBox collects some information about the installation now:



? ×
Create New Virtual Machine
Welcome to the New Virtual Machine Wizard!
This wizard will guide you through the steps that are necessary to create a new virtual machine for VirtualBox.
Use the <b>Next</b> button to go to the next page of the wizard and the <b>Back</b> button to return to the previous page. You can also press <b>Cancel</b> if you want to cancel the execution of this wizard.
Next Cancel

	8 ×
Create New Virt	ual Machine
VM Name and	OS Туре
Enter a name for the install onto the virtual	new virtual machine and select the type of the guest operating system you plan to machine.
	al machine usually indicates its software and hardware configuration. It will be used onents to identify your virtual machine.
C-MOR Virtual Mad	hine
OS <u>T</u> ype	
Operating <u>S</u> ystem: <u>V</u> ersion:	
	<u>N</u> ext Cancel



Afterwards you reach the settings where you have to assign memory for your virtual machine. Attention! The size shouldn't be too big. We suggest to assign 1024MB virtual memory. C-MOR just with one camera is able to work with 512MB virtual memory. This depends on the size of the total memory you have in your system left.

		? <mark>X</mark>
G Create New Virtual Ma	chine	
Memory		
-	emory (RAM) in megabytes to be allocated to the virtual machine	
The recommended base memo		
Base Memory Size		
	•	512 MB
4 MB	1500 MB	
	Next	Cancel

After setting up the main memory the hard disk space is set:

	? x
Create New Virtual Machine	
Virtual Hard Disk	
Select a hard disk image to be used as the boot hard disk of the virtual machine. You can eith new hard disk using the <b>New</b> button or select an existing hard disk image from the drop-dow pressing the <b>Existing</b> button (to invoke the Virtual Media Manager dialog).	
If you need a more complicated hard disk setup, you can also skip this step and attach hard using the VM Settings dialog.	disks later
The recommended size of the boot hard disk is <b>8192</b> MB.	
Boot Hard Disk	
<u>C</u> reate new hard disk	
Use existing hard disk	
C-MOR VM hda.vdi (Normal, 3,00 GB)	▼ 🗟
<u>N</u> ext	Cancel



? ×
Create New Virtual Disk
Welcome to the Create New Virtual Disk Wizard!
This wizard will help you to create a new virtual hard disk for your virtual machine.
Use the <b>Next</b> button to go to the next page of the wizard and the <b>Back</b> button to return to the previous page. You can also press <b>Cancel</b> if you want to cancel the execution of this wizard.
Next Cancel

<u>१</u> ×
Create New Virtual Disk
Hard Disk Storage Type
Select the type of virtual hard disk you want to create.
A <b>dynamically expanding storage</b> initially occupies a very small amount of space on your physical hard disk. It will grow dynamically (up to the size specified) as the Guest OS daims disk space.
A <b>fixed-size storage</b> does not grow. It is stored in a file of approximately the same size as the size of the virtual hard disk. The creation of a fixed-size storage may take a long time depending on the storage size and the write performance of your harddisk.
Storage Type
Optimized by the standard optimized by th
Eixed-size storage
Next Cancel



Also the hard disk space which C-MOR will use later should be selected well. To install the operating system the virtual machine feature space. Now you are able to choose the space you need. **Attention!** The space limit of C-MOR is 2TB! Now you have to decide for a virtual disk space. If you want to do the installation automatically it isn't necessary to remember the space later. But if you want to do your own partitioning you have to remember the space you choose for the installation later. For simple tests the total space of 3 Gigabytes will be enough. Experts may change the disk space later. Please read the steps to increase the disk space on a virtual C-MOR in the forum: <a href="http://www.c-mor.com/video-surveillance-forum">http://www.c-mor.com/video-surveillance-forum</a>

					8 ×
G Create Nev	v Virtual Disk				
Virtual Disk	Location and	Size			
Press the <b>Selec</b> the entry field.	<b>t</b> button to select th	e location of a fi	le to store the ha	ard disk data or type	a file name in
- <u>L</u> ocation					
C-MOR Virtua	l Machine				
Select the size of maximum size of <u>S</u> ize	f the virtual hard dis this hard disk.	k in megabytes.	This size will be r	eported to the Gues	t OS as the
					3,00 GB
4,00 MB				2,00 TB	
				Next	Cancel

					? <mark></mark>
Create N	ew Virtual Disk				
Virtual Di	sk Location and	d Size			
Press the <b>Se</b> the entry field		the location of a	file to store the	hard disk data or type	e a file name in
<u>Location</u>					
C-MOR Vir	ual Machine				
maximum size	of this hard disk.			e reported to the Gue	st OS as the 3,00 GB
4,00 MB			1 1 1	2,00 TB	5,00105
				<u>N</u> ext	Cancel

१ <mark>×</mark>
Create New Virtual Machine
Summary
You are going to create a new virtual machine with the following parameters:
Name: C-MOR Virtual Machine OS Type: Other Linux Base Memory: 512 MB Boot Hard Disk: C-MOR Virtual Machine .vdi (Normal, 3,00 GB) If the above is correct press the <b>Finish</b> button. Once you press it, a new virtual machine will be created. Note that you can alter these and all other setting of the created virtual machine at any time using the <b>Settings</b> dialog accessible through the menu of the main window.
<u>Finish</u> Cancel

C-MO

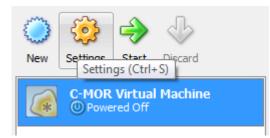
...and you see more!

P



Before the just created virtual C-MOR can be started two settings need to be set that the installation runs fine later. Select the just created VM and click on "Settings".





🧐 C-	MOR Virtual Mach	hine - Settings
	General	General
	System	
	Display	Basic Advanced Description
9	Storage	Name: C-MOR Virtual Machine
Ð	Audio	Operating System: Linux
Ð	Network	
	Serial Ports	Version: Other Linux
Ø	USB	
	Shared Folders	
		Select a settings category from the list on the left-hand side and move the mouse over a settings
		item to get more information.
		OK Cancel Help



Select "Network" in the left menu and set "Bridged Adapter" for the "Adapter 1" as the "Attached to:" value. This is required to make C-MOR available from the attached network later.

🔅 C-MOR Virtual	Machine - Settings
General	Network
<ul> <li>Display</li> <li>Storage</li> <li>Audio</li> <li>Network</li> <li>Serial Ports</li> <li>USB</li> <li>Shared Fold</li> </ul>	Adapter 1       Adapter 2       Adapter 3       Adapter 4         Image: Adapter       Image: Nat       Image: Nat         Image: Advanced       Nat       Image: Nat         Image: Advanced       Image: Adapter       Image: Nat         Image: Advanced       Image: Adapter       Image: Nat         Image: Advanced       Image: Adapter       Image: Nat         Image: Nat       Image: Nat       Image: Nat         Image: Nat <t< th=""></t<>
	Select a settings category from the list on the left-hand side and move the mouse over a settings item to get more information.
	<u>O</u> K Cancel <u>H</u> elp



😳 C-MOR Virtual Mac	hine - Settings
<ul> <li>C-MOR Virtual Mac</li> <li>General</li> <li>System</li> <li>Display</li> <li>Storage</li> <li>Audio</li> <li>Network</li> <li>Serial Ports</li> <li>USB</li> <li>Shared Folders</li> </ul>	hine - Settings          Network         Adapter 1       Adapter 2       Adapter 3       Adapter 4         Image: Enable Network Adapter         Attached to:       Bridged Adapter         Name:       Broadcom NetXtreme 57xx-Gigabit-Controller         Image: Adapted
	Select a settings category from the list on the left-hand side and move the mouse over a settings item to get more information.         QK       Cancel

The second change which needs to be made prior starting the VM is the mounting of the ISO image which covers the C-MOR VM. Select "Storage" in the left menu and change the "IDE Controller" "CD/DVD Device" by clicking on the folder symbol:

C-MOR Virtual Mac	chine - Settings		ि ×
📃 General	Storage		
Display	Storage Tree	Attributes	
Storage	DE Controller	S <u>l</u> ot:	IDE Secondary Master 👻
Ð Audio	C-MOR Virtual Machine .vdi	CD/DVD Device:	Empty 👻 🧔
🗗 Network	Empty		Passthrough
🔊 Serial Ports		Information	
🥔 USB		Size:	
Shared Folders		Location:	
		Attached To:	
	ې 🖨 🗐 🕲		
	Select a settings category from the list on th item to get more information.	e left-hand side and m	ove the mouse over a settings
,		<u>Q</u> K	Cancel <u>H</u> elp



Select "Add" in the opening menu and add the ISO Image which was downloaded from the C-MOR web.

Actions	
	8
New Add Remove Relea	se Refresh
Add (Ins) Hard Disks	mages 🗄 Eloppy Images
Name	<u>^</u>

#### Select the file in the menu:



Virtual Media Manager	? <mark>x</mark>
Actions	
Image: New Add     Image: Second	
Hard Disks O CD/DVD Images	
Name	Size
c-mor-free-video-vm-xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	345,78 MB
Location: C:\Users\michaelr\Desktop\c-mor-free-video-vm-xxxxxxxx.iso	
Attached to: Not Attached	
Select Cancel	Help

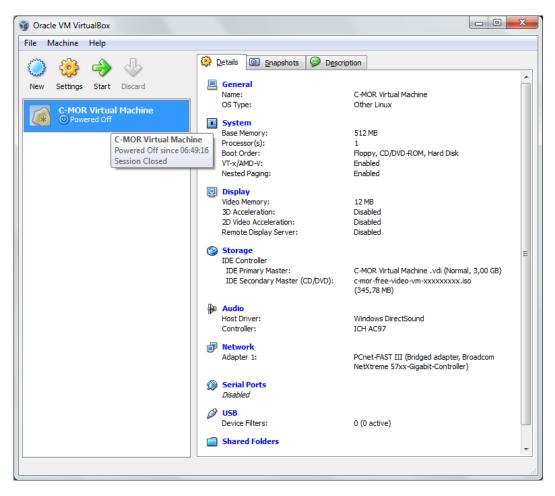


🔅 C-MOR Virtual Ma	chine - Settings		8 ×		
General	Storage				
System	Storage Tree	Attributes			
Storage	DE Controller	Slot:	IDE Secondary Master 🔹		
Audio	C-MOR Virtual Machine .vdi	CD/DVD Device:	c-mor-free-video-vm-x: 🔻 🗔		
Network	c-mor-free-video-vm-xxxxxxxx		Passthrough		
Serial Ports		Information			
🖉 USB		Size:	345,78 MB		
G Shared Folders			C:\Users\michaelr\Desktop\c-m		
		Attached To:	-		
	Select a settings category from the list on the left-hand side and move the mouse over a settings item to get more information.				
		<u>O</u> K	Cancel <u>H</u> elp		

After the correct selection the storage menu looks like following:

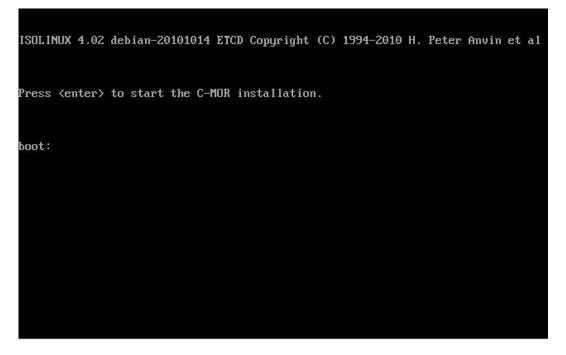


Has the virtual C-MOR been configured the software has to be installed as next step. The C-MOR VM has to be started now by selecting the "C-MOR Virtual Machine" and clicking on the "Start" Button on the left top:



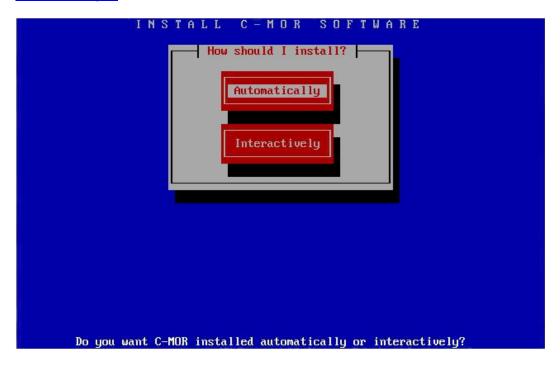


The virtual C-MOR starts with the following start screen you simply needs the Enter key to start the installation program:



Right after that the installation menu appears. Select "Automatically" to install the C-MOR VM:

If you want to install C-MOR with your own partition, you have to change now the manual. From this step you should use the documentary <u>http://www.c-mor.com/pdf/c-mor-expert-installation.pdf</u>.





The installation progress is shown:

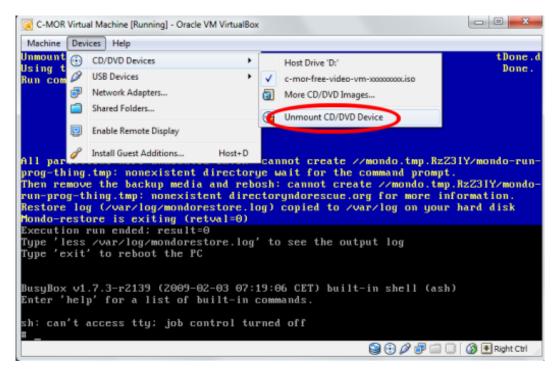
	INSTALL C-M Installin	OR SOFTWARE g Automatically	
Partitioning l Formatting par			Done. Done.
Mounting Installin	• • •	from archives	Done.
Installin	Installing C-MOR from the archives. Please wait. This may take some time.		
	Installing from fi	leset #21 on CDR #1	
	0:26 taken 53% done	0:22 remaining 47% to go	
Please wai			
OK OK All partitions Installing fro	s were mounted OK. om CDR #1		
	Installing C-MOR	from the archives.	

The C-MOR Virtual Machine is installed now. Move on by pressing the Enter key:

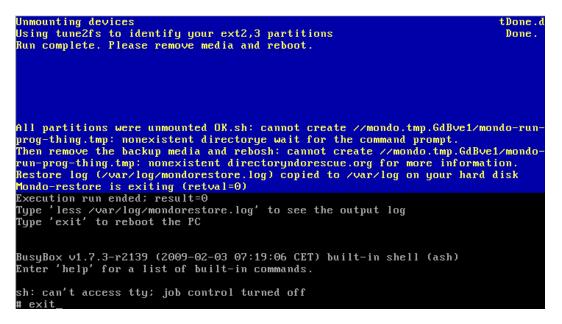




Before the installation finishes with the command "exit" the CDROM must be un-mounted (ejected) through the Devices menu on top left:

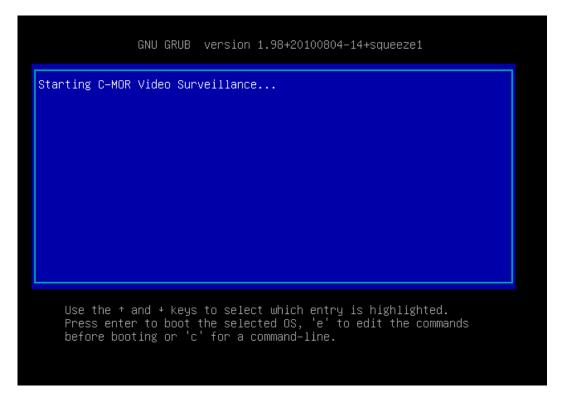


After the CDROM was unmounted the command "exit" finishes the installation. The new C-MOR VM reboots first time now:

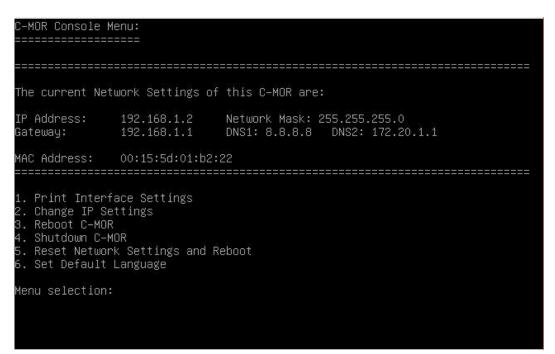




The installation has almost finished. The C-MOR VM starts now and show following start screen after booting once automatically:



After the automatic reboot the standard IP address is set to 192.168.1.2 with the netmask 255.255.0:





Now select menu number 2 to change the IP to fit to your network: You are asked for the admin password. The default password of C-MOR is "admin".

1. Print Interface Settings 2. Change IP Settings 3. Reboot C–MOR 4. Shutdown C–MOR 5. Reset Network Settings and Reboot 6. Set Default Language
Menu selection: 2
Enter the C-MOR admin password:
Menu 2 selected
Enter new IP address (no validation check): 172.20.1.234
Enter new netmask (use 255.0.0.0 if not sure): 255.255.255.0
Enter new gateway address (no validation check): 172.20.1.1
The Name Servers are set to: 8.8.8.8, 172.20.1.1.
Do you want to change the Name Servers? This is optionally! (y/N) y_
Enter new netmask (use 255.0.0.0 if not sure): 255.255.255.0
Enter new gateway address (no validation check): 172.20.1.1
Enter new gateway address (no validation check): 172.20.1.1
The Name Servers are set to: 8.8.8.8, 172.20.1.1.
The Name Servers are set to: 8.8.8.8, 172.20.1.1. Do you want to change the Name Servers? This is optionally! (y/N) y Enter first DNS Server
The Name Servers are set to: 8.8.8.8, 172.20.1.1. Do you want to change the Name Servers? This is optionally! (y/N) y Enter first DNS Server (use 8.8.8.8 if not sure): 8.8.8.8 Enter second DNS Server
The Name Servers are set to: 8.8.8.8, 172.20.1.1. Do you want to change the Name Servers? This is optionally! (y/N) y Enter first DNS Server (use 8.8.8.8 if not sure): 8.8.8.8 Enter second DNS Server (use 8.8.4.4 if not sure): 172.20.1.1



The just made settings are displayed on the console.

C-MOR Console	Menu: :=====			
================	=======================================			
The current Ne	twork Settings o	f this C-MOR are:		
장애 등 소설 방법 방법 이 전에 가지 않는 것이다.	172.20.1.234 172.20.1.1			
MAC Address:	00:15:5d:01:b2	:22		
======================================				
Menu selectior	1:			

After setting up the IP information correctly the C-MOR will be available through the web. In this example simply type http://172.20.1.234 (or whatever you did set up) and use the username "admin" with password "admin" to log in.

First of all a disclaimer is displayed. You have to accept the disclaimer to use C-MOR:

#### Disclaimer

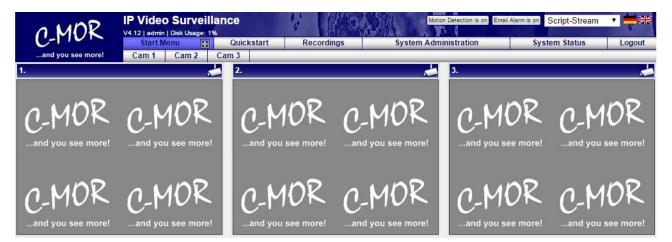
1- Limitation of Liability. NOTWITHSTANDING ANYTHING ELSE IN THIS AGREEMENT OR OTHERWISE, C-MOR WILL IN NO EVENT BE LIABLE WITH RESPECT TO ANY SUBJECT MATTER UNDER ANY CONTRACT, NEGLIGENCE, STRICT LIABILITY OR OTHER LEGAL, CONTRACTUAL OR EQUITABLE THEORY FOR: (I) ANY INDIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES, HOWEVER CAUSED AND WHETHER OR NOT ADVISED IN ADVANCE OF THE POSSIBILITY OF SUCH DAMAGES; OR (II) DAMAGES FOR LOST PROFITS OR LOST DATA; OR (III) COST OF PROCUREMENT OF SUBSTITUTE GOODS, TECHNOLOGY OR SERVICES. NOTWITHSTANDING ANYTHING IN THIS AGREEMENT TO THE CONTRARY OR THE FAILURE OF ESSENTIAL PURPOSE OF ANY LIMITATION OF LIABILITY OR LIMITED REMEDY, C-MOR'S ENTIRE AGGREGATE LIABILITY ARISING FROM OR RELATING TO THIS AGREEMENT OR THE SUBJECT MATTER HEREOF, UNDER ANY LEGAL THEORY, WHETHER IN CONTRACT, TORT, INDEMNITY OR OTHERWISE, SHALL BE LIMITED TO THE AMOUNTS RECEIVED BY C-MOR UNDER THIS AGREEMENT WITH RESPECT TO THE PARTICULAR TRANSACTION GIVING RISE TO THE CLAIM REDUCED BY 1/24 OF THE PRICE PAID BY RESELLER FOR EACH MONTH SUCH APPLICABLE END USER HAS HAD THE PRODUCT.

2- C-MOR does not warrant that the use or operation of this product will be error free, nor does it warrant that any data stored on the product will remain accessible or uncorrupted. To protect against accidental data loss, back up your data frequently to multiple types of storage media





After clicking "Accept Disclaimer" the start screen of C-MOR shows up:



C-MOR was successfully installed now. Now move to the menu "System Administration" and configure your cameras.

O MOR	IP Video Surveillance V4.12   admin   Disk Usage: 1%		E	Motion Detection is on	Email Alarm is on Script-St	tream 🔻 💳 👬
C-MOK	Start Menu 🔯 Quicksta	rt Recordings	System Administrat	ion	System Status	Logout
and you see more!	Cam 1 Cam 2 Cam 3					
System Administration		Sy	stem Administration			
Ménu						
Network Configuration	License Installation					
Internet Proxy Configuration	Please install a C-MOR license to enable al	I functions of C-MOR and activ	ate more than one camera!			
Alarm Emails	License Installation					
Time Setting						
Time Zone	System Name					open/close
Time Server	Network Configuration					open/close
Start/Stop Recordings	-					
Archiving	Proxy Server Configuration					open/close
Automatic deletion of oldest recordings	Email Alarm					open/close
Cam Configuration						
User Administration	Set Time			_		open/close
User Camera Settings	Configuration of the Time Zone					open/close
FTP Server Configuration						
System Language	Time Server					open/close
Video Size Start Screen	Start/Stop Recordings					open/close
Remote Access Configuration						
C-MOR Stacking	Storage Time of Recordings					open/close
System Restart	Automatic Deletion of oldest Reco	ordings				open/close
System Shutdown						
C-MOR Software Update	Camera Configuration					open/close
License Upgrade	Change Configuration Camera 1					
Backups	Change Configuration Camera 2					
	Change Configuration Camera 3					



More Information for the configuration of C-MOR you can find on "User Manual for C-MOR IP V4 Video Surveillance".

The Note "License Installation" just appears at the free version of C-MOR. If you have a licensed version yet, this note will not appear anymore.