

In big chambers there are sometimes multiple cameras needed, e.g. one in each corner and two or more mobile cameras.

There are two options to install multiple cameras:

A) Multichannel camera controller with RF matrix

Some suppliers for EMC shielded cameras offer multi channel controllers and an RF matrix.

The video signal of each camera is connected to an input of the matrix. You can select four out of eight cameras.

The four outputs can be fed to one monitor each or to one UHD monitor with a video splitter.

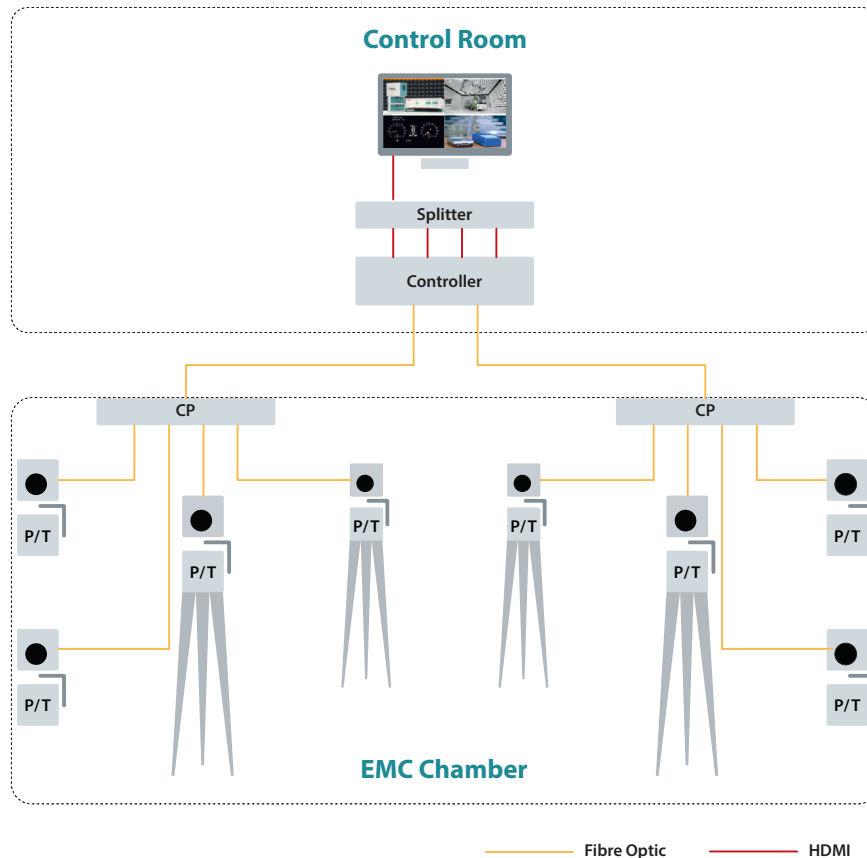
In this way you can view all eight cameras, but only four at a time and only on one monitor location.

PRO:

- All eight cameras can be viewed.
- Only one video controller is needed.

CON:

- Only four out of eight cameras can be viewed at a time.
- The monitor(s) are on fixed position for all cameras.
- All cameras can only be controlled from one central position.
- Recordings can be made only with selected cameras.



B) The EMC cameras are connected to two intelligent camera controllers

Other suppliers like PONTIS EMC offer controllers for up to four cameras with integrated recording (HDCon6). These controllers can be linked together via network or the camera connected to one controller (slave) can also be controlled by the other controller (master).

PRO:

- All cameras can be viewed at once.
- Cameras can be operated locally in the control rooms.
- Cameras can be viewed and operated (PTZ) from any PC in the network. Although the cameras are not directly connected to the network, the controller is importing the video by a frame grabber and retransmits it to the clients in the network. They can be accessed on multiple locations simultaneously and not only in one location.
- The controllers and cameras can be located in one chamber plus control room or in two chambers and control rooms.
- The number of cameras is not limited to eight, because there can be multiple controllers in the network.
- Shielded IP cameras can be added to each controller in addition to the regular HD-SDI cameras.
- Non shielded IP cameras can be integrated in the system, e.g. for amplifier room or loading zone.

CON:

- Two controllers are needed.

