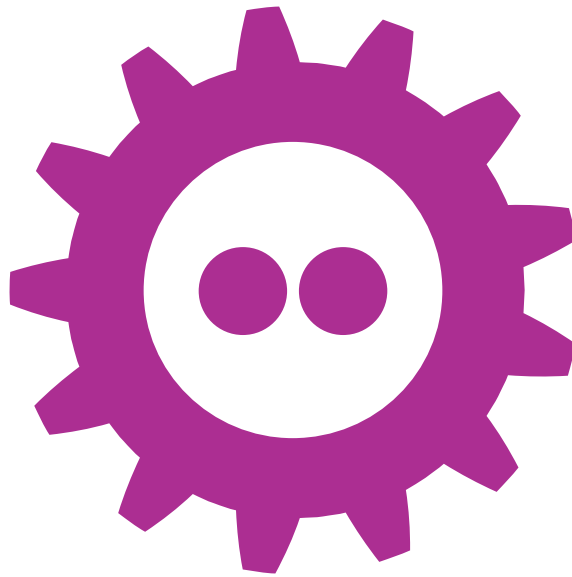


FOSDEM AV Manual
FOSDEM Video

August 26, 2016



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1 Organisation

Video is a big task, so there are many people working together to make it all happen. In short, there are three (types of) teams:

1.1 Setup and teardown teams

At the start of the event/day these people take the equipment to the rooms and do basic setup (cam, sound, plugging in cables). They will ensure everything is ready before the first talk starts in each room. At the end of the day, they will retrieve (part of) the equipment again for safe storage overnight.

During the day, they may either not be present/active or be going from room to room to fix problems, following the direction of the monitoring and control team members when needed.

1.2 Monitoring and control team

These people are in the NOC in the K building. They can remote into all the video boxes, and control the video part of the website. Their task is to constantly monitor all the equipment and streams for problems, and to arrange fixes for any that occur.

There will not be enough radios for each team/room to be able to contact the central monitoring and control team, so during the setup and teardown (and possibly other busy moments), each building will have a “control” point (usually that buildings’ service desk, if any) manned by a member of this team. Progress is kept at each local control point, which will inform the rest of the monitoring and control team through either IP (preferred) or radio (backup).

In principle, this team does not run out to fix problems themselves, but instead will sent a volunteer or similar. Maintaining contact between everyone is their main priority, and running around goes against this.

1.3 Devroom video volunteers

These people stay near the video equipment, keeping it safe and making sure the camera is aimed at the speaker. They also monitor their own video/audio feeds for problems and will have means to signal problems to central control.

The devroom volunteer does not leave their post without waiting for a replacement, until the teardown team comes to collect equipment. They do *NOT* disconnect or turn off any equipment themselves. That is the task of the teardown team and nobody else.

2 FOSDEM Video Box

More details coming soon.

3 Tripod

More details coming soon.

4 Camera

FOSDEM2017 will use 2 different camera models: the Sony HXR-NX100 and the Canon XF100E.



4.1 Standard settings for both cameras and quick check list

Resolution	1280x720
Refresh rate	50p
MIC-CHANNEL1(left)	Internal microphone
MIC-CHANNEL2(right)	Speaker microphone
Power source	Cable AND Battery
Lens cover	Remove!
Camera/Tripod	Cam must be attached to tripod plate

4.2 Setup for Sony HXR-NX100

4.2.1 Screw camera on mount

Screw the camera onto the tripod. Every camera has a screw hole at the bottom that can be used for this. The plate has a distinct “point camera in this direction”-arrow, pay attention to this. The screw can be tightened by a coin or similar object.



4.2.2 Power and HDMI connectors

First plug in the battery at the back, then plug in both the HDMI and the power cable.

Both connectors can be found next to each other to the right of the battery slot at the back. Look at the picture if you're unsure.

Do not forget to hook up the other end of the HDMI cable to the FOSDEM Video Box, and the power cable into the mains.



4.2.3 Microphone

Plug the XLR cable of the audio system into Input2.



4.2.4 Power on

You can find the power button on the bottom of the left side of the camera (looking from behind).



4.2.5 Audio settings

The audio settings can only be done through the hardware switches on the camera. Make sure to set the switches to the correct positions, as these directly affect the availability of audio on the recordings and live streams. Wrong settings means no audio! The position of the dials does not matter (those are for manual volume, we use automatic volume). If unsure, verify with the image below.

Input	Left switch	Middle switch	Right switch	dial
Input1	BOTTOM (Mic 48V)	TOP (INT MIC)	TOP (AUTO)	anything
Input2	TOP (Line)	MIDDLE (EXT)	TOP (AUTO)	anything



4.2.6 Video output configuration

The video configuration will be done through the on-screen display.

Set up like this:

Menu → 2nd icon (two arrows) → Video out → HDMI → 720p.



The information displayed on the OSD relates to recording to the SD card, which we do not use. *Ignore this text*, as the video output config is completely separate from the recording setting on this model.



4.2.7 Remove the lens cover

Do not forget to remove the lens cover. Store it in the camera bag for safe keeping.



4.2.8 Checklist

Please check the following before leaving:

- Does CH1 on the camera display spike when you tap the camera itself with your fingers?
- Does CH2 on the camera display spike when you tap the (powered on) wireless speaker microphone?
- Turn off the wireless speaker microphone before leaving to conserve battery power for during the day.
- Do both video boxes say mode 720p50 on the LCD display?
- Does the camera video box display the camera image on the LCD display?

If any of these do not work, re-check your connections and settings. Still no luck? Contract control!

4.2.9 Contact control

Please report that you've finished the room with your local control point. They will let you know what rooms still need attention.

4.3 Setup for Canon XF100E

4.3.1 Screw camera on mount

Screw the camera onto the tripod. Every camera has a screw hole at the bottom that can be used for this. The plate has a distinct “point camera in this direction”-arrow, pay attention to this. The screw can be tightened by a coin or similar object.

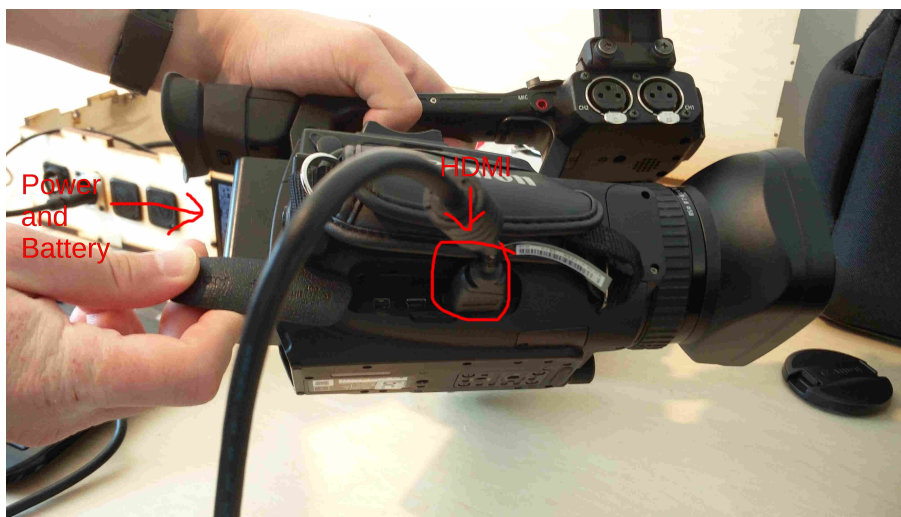


4.3.2 Power and HDMI connectors

First plug in the battery at the back, then plug in both the HDMI and the power cable.

The HDMI connector is hidden behind a cover on the bottom of the right side. Power is on the back, to the left of the battery slot. Look at the picture if you're unsure.

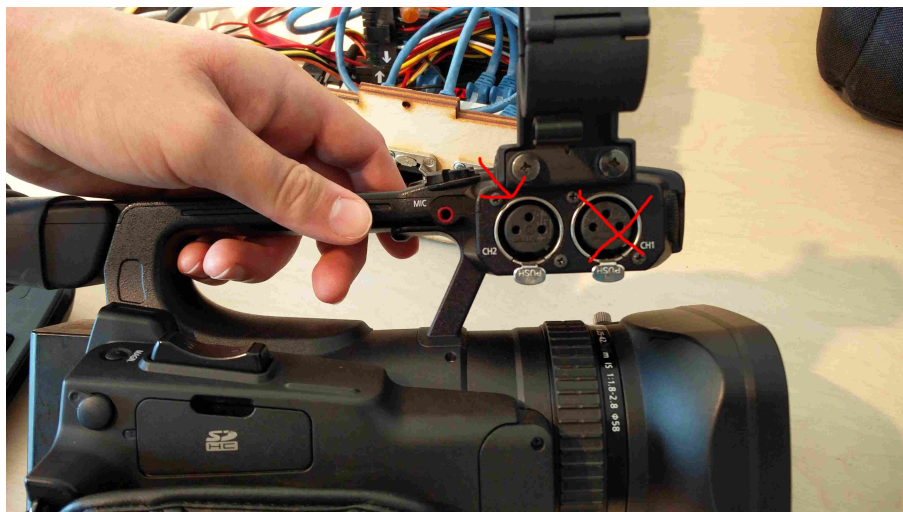
Do not forget to hook up the other end of the HDMI cable to the FOSDEM Video Box, and the power cable into the mains.





4.3.3 Microphone

Plug the XLR cable of the audio system into CH2.



4.3.4 Power on

You can find the power button on the top of the left side of the camera (looking from behind).

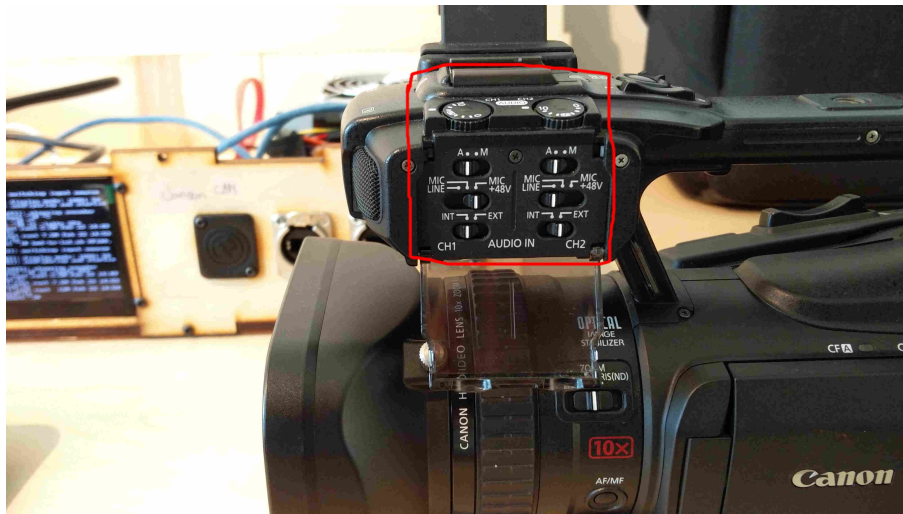




4.3.5 Audio settings

The audio settings can only be done through the hardware switches on the camera. Make sure to set the switches to the correct positions, as these directly affect the availability of audio on the recordings and live streams. Wrong settings means no audio! The position of the dials does not matter (those are for manual volume, we use automatic volume). If unsure, verify with the image below.

Input	Top switch	Middle switch	Bottom switch	dial at top
CH1	LEFT (A)	RIGHT (MIC 48V)	LEFT (INT)	anything
CH2	LEFT (A)	LEFT (LINE)	RIGHT (EXT)	anything



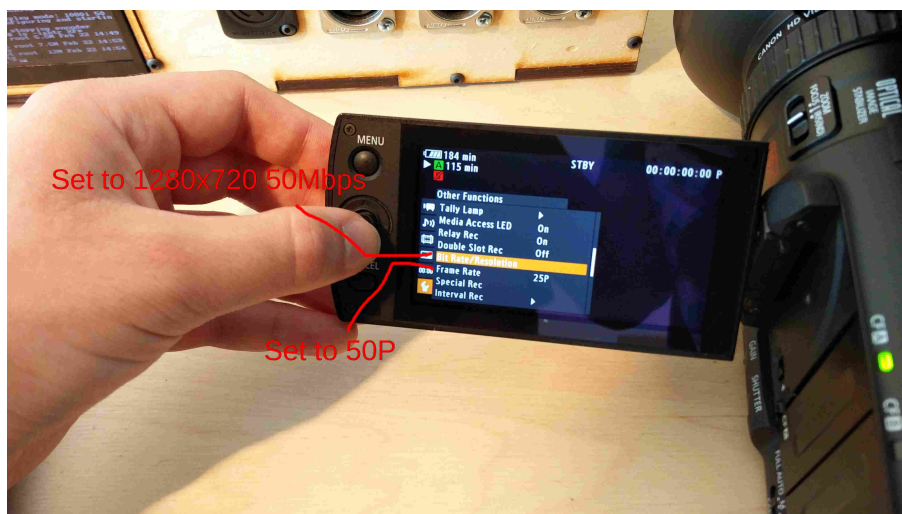
4.3.6 Video settings

The video settings will be done through the on-screen display.

Set up like this:

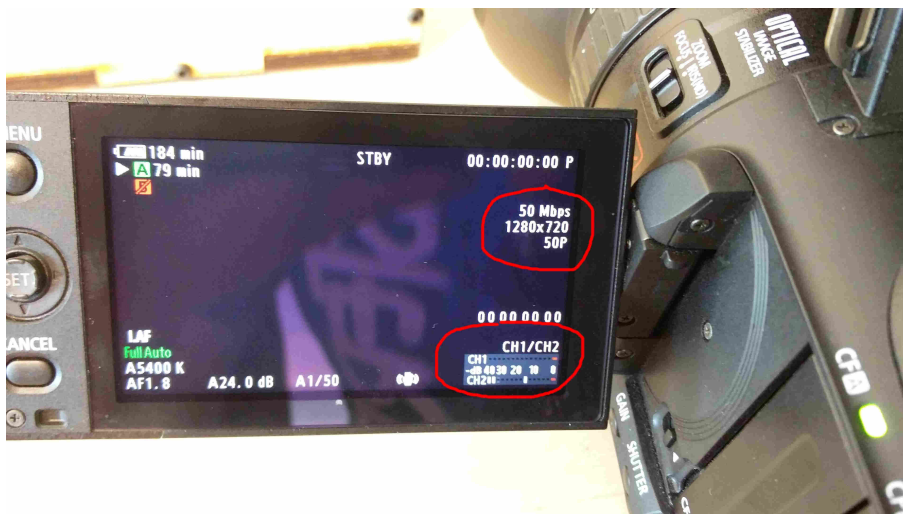
Menu → Last pictogram (wrench) → Bit Rate/Resolution → 1280x720 50Mbps

Menu → Last pictogram (wrench) → Frame Rate → 50P





With this camera model, the on-screen display will show the configuration that is active during normal operation.



4.3.7 Remove the lens cover

Do not forget to remove the lens cover. Store it in the camera bag for safe keeping.



4.3.8 Checklist

Please check the following before leaving:

- Does CH1 on the camera display spike when you tap the camera itself with your fingers?
- Does CH2 on the camera display spike when you tap the (powered on) wireless speaker microphone?
- Turn off the wireless speaker microphone before leaving to conserve battery power for during the day.



- Do both video boxes say mode 720p50 on the LCD display?
- Does the camera video box display the camera image on the LCD display?

If any of these do not work, re-check your connections and settings. Still no luck? Contract control!

4.3.9 Contact control

Please report that you've finished the room with your local control point. They will let you know what rooms still need attention.