

Vad du som kameraansvarig behöver



Hårdvara	Mjukvara
 Med den här laddaren kan du ladda den smartphone som du använder för att filma, batterierna till roboten samt den smartphone som du använder för att konfigurera och styra roboten.	  Apple  Android Pix4Team remote: App för att ställa in och styra roboten
 De här kablarna använder du för att ladda batterierna till roboten samt den smartphone du använder för att konfigurera och styra roboten.	
 Stativet står till höger om det vita skåpet i förrådet. Det är tungt.	



I den stora lådan så finns roboten, ett batteri och adaptern som du fäster på roboten och som du fäster din smartphone i. Den lilla vita lådan innehåller 2 batterier plus batteriladdare. Och den långa vita kabeln är en 5m lång USB-A till USB-C. Med kabeln så kan du tillse att din mobil inte tappar laddning medans du filmar.



Apple

Andriod

Pix4Team camera: App som tillåter dig att filma med en smartphone

Tips till kameraansvarig:

1. När du fäster din smartphone i stativet var noga med att vinkla den uppåt. Det är för att annars så flyger 3 poängsskott utanför bild. Du kan kontrollera det här i Pix4Team Remote App när du ställer planen. Om du enbart ser precis över korgarna är smartphonen felvinklad.
2. Stativet skall stå bakom sekret och det skall stå så långt bak som möjligt. Eftersom att den är trebent så kan du ställa av 2 av benen mot väggen. Du kan även bestämma själv hur stor basen ska vara. Det är en avvägning mellan stabilitet, hur trångt det är bakom sek, höjd över plan och avstånd från plan.
3. Uppmärksamma de som sitter i sek att från och med att du börjar filma så är det ljudupptagning med så det kommer att höras vad man säger i sek. Det brukar uppskattas av de som sitter i sek.
4. Se till så att kabelvindan är placerad under stativet så att den vita kabeln räcker hela vägen upp till din smartphone.
5. När du fäster smartphonen ovanpå roboten och pluggar in den vita kabeln använd kardborrebandet så att det inte är spänning i kabeln samt tillse att kabeln aldrig kommer i vägen för linsen på din smartphone eller roboten.
6. Ladda batterierna till roboten. Ett fulladdat batteri räcker en match utan problem men inte två. Var förtänksam och ladda kamerabatterierna med hjälp av batteriladdaren i den mindre vita lådan.
7. När du sätter på roboten så är den lite kinkig. Du skall hålla in knappen i 3 sekunder. Om du efter 3 sekunder inte märker att den påbörjar sin initiering (det kommer att vara uppenbart) så vänta 1 sekund och prova igen. Det brukar funka på antingen andra eller tredje försöket.
8. Läs igenom övriga instruktioner som du hittar nedanför

Part 1. Installation guide

A. Provided equipment

Your PIX4TEAM kit is delivered with:

- 1 The PIX4TEAM robot.
- 2 A quick-release plate with a 1/4" screw to install any camera, smartphone or tablet.
- 3 A support for smartphones & tablets (max screen size 11").
- 4 A multi cable to connect the PIX4TEAM robot to a SONY camera to enjoy automatic zoom and control from the PIX4TEAM Remote app. If you use an older SONY camera version or a CANON camera, you'll need A/V-R or LANC cable to control the camera (cables are sold separately on our website).

List of compatible cameras:

shop.movensee.com/en/content/33-pix4team-support#cameras

- 5 An AC adapter to connect the robot to the main socket adapted to your country of delivery.
- 6 A 3-meters long Ethernet cable.
- 7 A batterie NP F970



B. Turning the robot on and off

1. Power supply

The Robot operates on main socket using an AC adapter 1 provided in the PIX4TEAM kit.



The robot can also operate with an autonomy of about 2h30 - 3h30 using the NP F970 battery provided with the PIX4TEAM.

To recharge the battery, insert it on the robot then connect the robot to the main socket using the supplied AC adapter (charging time for a 7800mAh battery: 3 hours 20 minutes). The orange LED lights up during the charge and turns off when charge is complete.

The battery can be inserted at the back of the robot after removing the battery cover. Slide your battery so that it is well clipped and does not move. 2

The battery can be removed by pressing the "BattRelease" button 3 and sliding the battery upwards.



2. Turning the robot on/off

To turn on the robot, press the power button **4** until the green LED lights up. The robot then initializes for about forty seconds and the green LED flashes rapidly. Wait for the initialization to complete and green LED to flash slowly before continuing.

To turn off the robot, press the power button **4** during 2 seconds until the green and red LEDs start flashing alternatively. The robot will return to its initial position before shutting down completely.



C. Installation and configuration of the robot

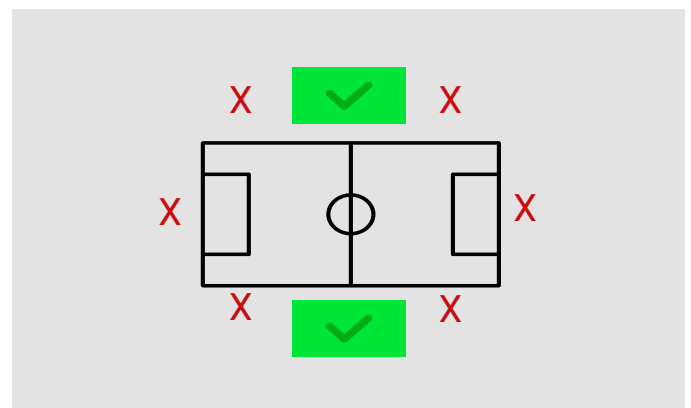
1. Robot placement

The robot must be placed:

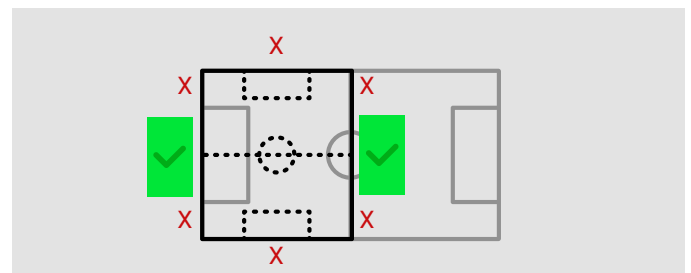
- ✓ - close to the center line, the goals must be on the right and left sides of the robot (see the green zone)
- ✓ - at a distance of 3 to 15 meters (10 to 49 ft) from the sideline for an complete field
- ✓ - at a height of at least 4.80 meters (16 ft) on a tripod in the stands or on a mast

In red (X), you'll find examples of bad positioning (robot is too far from the center line or placed on the wrong side of the sport field)

For a complete field



For a reduced area



TIPS

Make sure that the entire sport field and all four corners are seen from the robot.

Avoid positioning the robot behind a fence or behind a goal and having an obstacle blocking the view.

Adjust the tripod legs so that it is as horizontal as possible so that the camera image is not tilted.

TIPS

2. Installing the camera/smartphone/tablet on the robot

Install the robot beforehand on a tripod or mast fitted with a 3/8" screw (standard screw on most models, but larger than a 1/4" screw).

If your tripod or mast only has a 1/4" screw, there may be a 3/8" screw hidden underneath, otherwise there are 1/4" - 3/8" adapters available on the market.

Do not mount the tripod or mast to keep the robot at your height while placing the camera and pairing the robot.

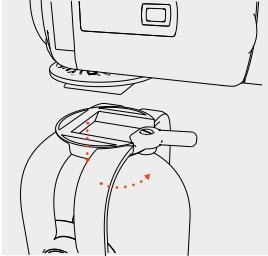
FILM WITH A CAMERA

If you choose to film with one of the compatible cameras mounted on the robot, here is the procedure:

Screw the camera to the quick-release plate using the 1/4" screw (the screw with the shackle).



Place the quick-release plate on the robot using the lock on the back.



The camera mounted on the robot and the wide-angle camera must face the sport field.



Connect the MULTI cable* between the camera and the robot to be able to control the zoom and recording of the camera.

*or LANC OR AV/R cable depending on the camera model

TIPS

Connecting the HDMI cable between the camera and the robot will allow you to record the video from the SONY/CANON camera directly on the robot (you will need a microSD card in the robot), to live stream, and also to have the video playback from the SONY/CANON camera on the PIX4TEAM Remote application (NB: the HDMI cable is not supplied in the PIX4TEAM kit, it is supplied with most cameras).

TIPS

TIPS

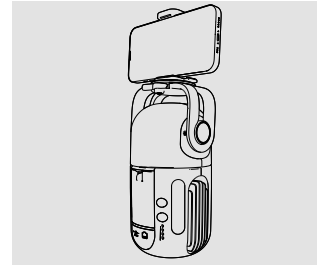
It is possible to use a camera that is not compatible. In this case, do not connect any cables, you will have to start the recording manually and there will be no zoom.

TIPS

FILM WITH A SMARTPHONE / TABLET

If you choose to film with your smartphone / tablet mounted on the robot, here is the procedure :

You can film with your usual video app (camera app on your phone or any video app of your choice!).



You will then start recording directly from this application and can adjust the desired zoom level from there.

The PIX4TEAM Camera application (see page 10) allows you to benefit from the automatic zoom, remote recording and video feedback in the PIX4TEAM Remote application: very useful when the robot is at the top of the mast.



Remove the cross-head screw from the plate (the screw is only used for the cameras).

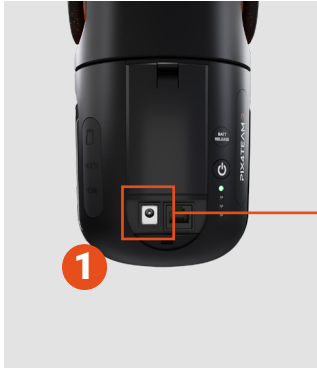
Screw the smartphone/tablet holder on the quick-release plate using the 1/4" screw (screw with the handle).

Make sure to align the smartphone/tablet on the plate. The camera mounted on the robot and the wide-angle camera must face the sport field.

If you are using a smartphone / tablet on the PIX4TEAM robot to film, you will need a second smartphone / tablet to configure the robot via the PIX4TEAM Remote app.

3. Start the robot

Connect the robot to the mains socket **1** or install the battery on the robot in the specific location.



Remove the protective cover from the wide-angle camera.



Turn on the robot by pressing the POWER button until the green LED lights up. The robot will make an initialization movement during which the LED will flash quickly in green before flashing slowly.

4. PIX4TEAM Remote app

In order to be able to use your PIX4TEAM with a camera or smartphone / tablet, you must download the free "PIX4TEAM Remote" application. It will allow you to configure and control your robot remotely.

You can use the PIX4TEAM Remote app in demo mode. The demo mode allows you to discover the features and options of the PIX4TEAM Remote application without having to connect a PIX4TEAM.

WARNING

You must have an IOS version newer than or equal to 12

You must have an Android version newer than or equal to 5

WARNING

TIPS

If you use the same smartphone/tablet and the same robot on your next uses, you will not need to connect the robot to the application again.

If the robot is on, you will find it when you open the application, and you just have to press "use" and go to the next step.

TIPS



PIX4TEAM Remote



Android



Apple

To connect the robot to the app :

- Launch the "PIX4TEAM Remote" application on your smartphone / tablet

- Press "add another robot" and follow the on-screen instructions to pair the app with the PIX4TEAM robot:

Make sure that Bluetooth is on on your smartphone / tablet and press the robot power button for 1 second. The blue LED flashes on the robot, you can then press "next" on the application.

- The application will confirm that the robot is well connected.

You can use the application/app about 10 to 50 meters away from the robot depending on the smartphone/tablet model.

TIPS

Your device does not need an internet connection. For example, you can use a tablet without a bundle or SIM card as a remote control. In any case, remember to activate the Wi-Fi and Bluetooth functions. For example, you can use a Samsung Galaxy TAB A7 32GO LITE WIFI tablet.

TIPS

5. Configuration with PIX4TEAM Remote

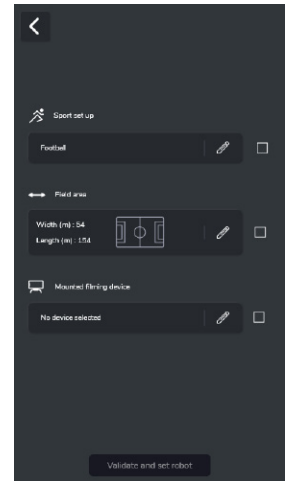
It's time to configure your game on the app!

Follow the instructions in the app to choose :

The right sport,

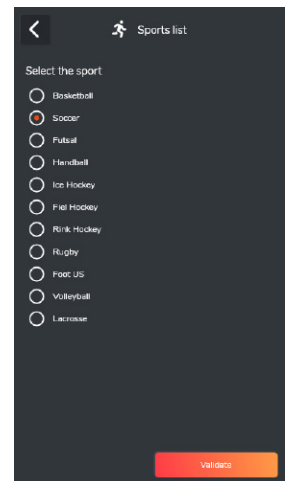
Camera / smartphone / tablet

The dimensions of the field



Select the sport of your PIX4TEAM robot

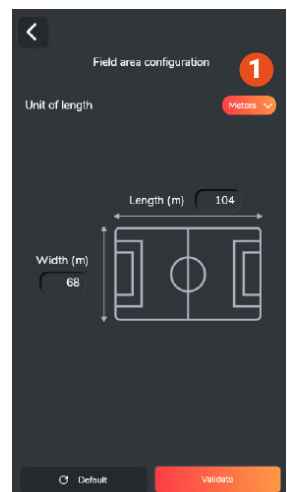
Choose the sport you wish to film with your PIX4TEAM robot. If you don't choose the right sport, you won't be able to follow the game action correctly.



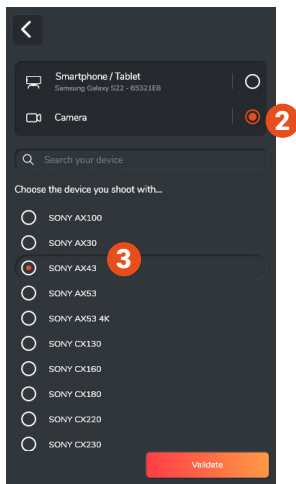
Setting the dimensions of the field

Make sure to fill in the correct dimensions of the game field to get the best tracking!

You can change the unit of measurement **1**



Select the filming device

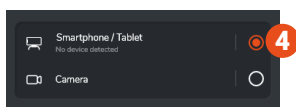


Filming with a camera

If you are filming with a camera, select "camera" 2

Then select your camera model 3

If your camera is not in the list, select "others". Recording and zooming will not be automatic.

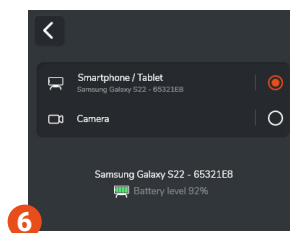
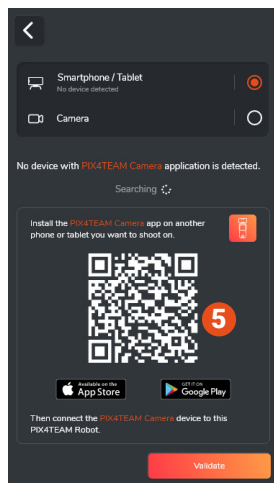


Filming with a smartphone

If you're filming with an Apple smartphone or tablet, select "Smartphone/Tablet" 4

You must download and install the PIX4TEAM Camera application for free on the device you are going to use to film. 5

If the PIX4TEAM Camera app is already connected to the PIX4TEAM robot, you will see the name of the device you are using to film and its battery level. 6

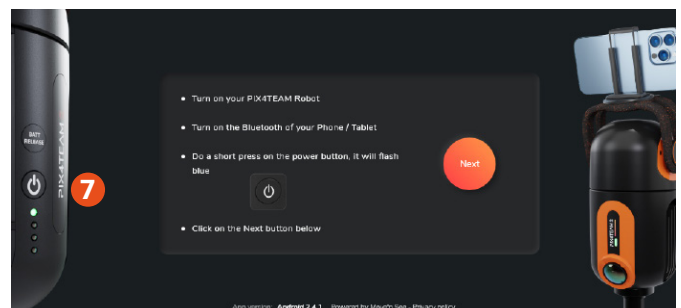


5



The PIX4TEAM Camera App

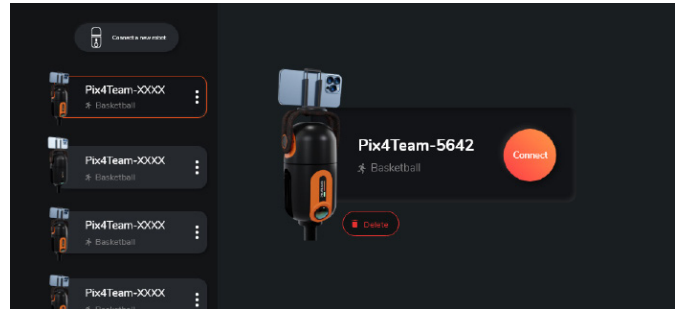
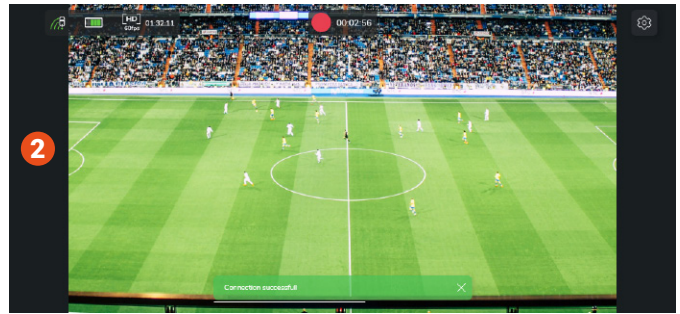
You must pair the PIX4TEAM Camera application with the robot, following the instructions indicated on the application. 7



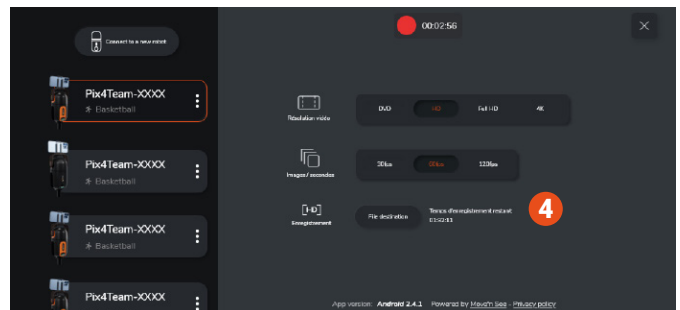
Once connected to the PIX4TEAM robot, you will directly arrive on the top camera view. **2**

Video recording starts from the PIX4TEAM Remote application.

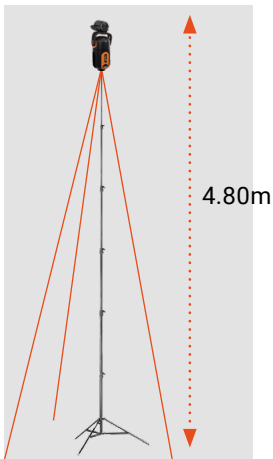
If you have several PIX4TEAM, you can associate the PIX4TEAM Camera app with the robot of your choice.



In the settings **3** you can configure the quality of the recording as well as the destination of the video files. **4**



6. Set up the robot



The robot must be placed at a **height of at least 4.80 meters** on a tripod, on a stand or on a mast.

The wide-angle camera and the top camera must face the gamefield. They must be in line with the center line and perpendicular to the sideline.

Adjust the orientation of the tripod or mast so that it is as horizontal as possible and the camera image is not tilted.

If you are using guy wires, adjust their tensions so that the camera pickup is not tilted. Check the correct balance of capture in the PIX4TEAM Remote application (see p.11).

WARNING

Check that the wide angle camera cover is removed, it will not be within reach once the robot is mounted

WARNING

7. Placement of the 4 corners of the field

WARNING

Check on the video image of the application that the 4 corners of the field are visible and that the image of the camera is not tilted, to have a pleasant recording to watch.

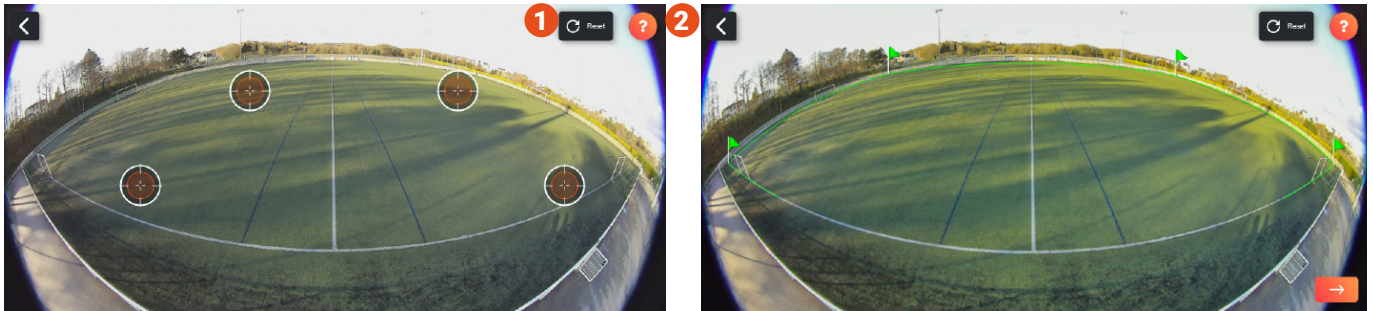
WARNING

Place the 4 orange circles at the 4 corners of the field.

To help you place them as precisely as possible and adjust your robot's placement, the app switches to a horizontal view.

If you want to restart the complete placement of the 4 orange circles, a reset button **1** puts the circles back in their default position.

A help button **2** guides you through this essential step.



Important: place the 4 orange circles as precisely as possible and indicate the size of the field precisely (within 10ft), otherwise the quality of the follow-up of the actions won't be as good.

After validation of this step, the application returns to vertical view. From then on the robot will be fully configured and operational, and automatic tracking will be activated by default.

The video feedback from the wide angle or from the camera may take a few seconds to appear on the PIX4TEAM app.

WARNING

After the validation step of the 4 corners, do not move or turn the robot any more, do not modify the feet of the tripod, the mast or the guy wires.

The robot must remain perfectly stable (except for slight effects of the wind), otherwise it will mistake the position of the ground and the tracking will be poor.

If the material has moved, you must replace the 4 circles in the application to resume optimal tracking.

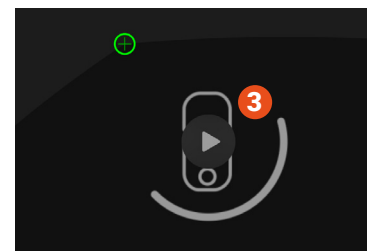
WARNING



We recommend not to use the PIX4TEAM Remote application with power saving mode activated on your iPhone/iPad as this does not guarantee optimal functioning of the application.

If you have activated the power saving mode on your iPhone/iPad, you will not have the video feedback on the PIX4TEAM Remote application. You will have to press the Play button to display the video feedback. **3**

If the Play button does not appear or work, we recommend disabling the power saving mode in your iPhone/iPad settings.

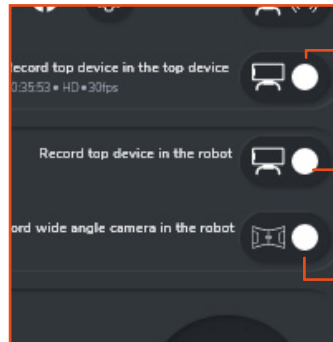


D. Film and stream live with PIX4TEAM

1. Record a video and use the videos files



You can record the video from the camera mounted on the robot either:



on the camera memory card¹ (not supplied) or the robot microSD card (not supplied).

on the robot microSD card² (not supplied).

You can also record the video of the wide angle camera:

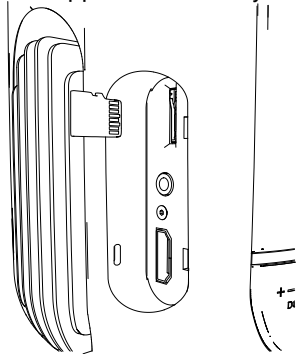
on the robot microSD card².

¹ Refer to the user manual of your camera for compatible memory cards.

² The PIX4TEAM robot is compatible with **CLASS 10** or higher microSD cards. The microSD card must be formatted in Fat32 or exFat.

You can format your microSD card directly in the robot. Insert your microSD card into the robot, taking care to insert it orienting it as shown in the diagram below. Access the application menu, then click on 'Format robot's SD card'. A warning message informs you that the procedure will permanently erase the contents of the SD card. You just have to confirm by pressing 'Format' and the formatting is done almost instantly.

If the application warns you that the card is not formatted, follow the procedure above.



You will then need to put the memory card(s) in your computer to recover the standard video files. Then you can watch, share, edit, analyze with any software! Indeed, PIX4TEAM is an open system.

TIPS

We recommend using a card of at least 32 GB to be able to record your entire game.

TIPS

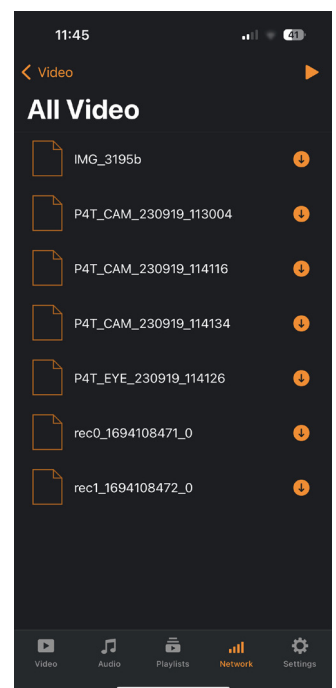
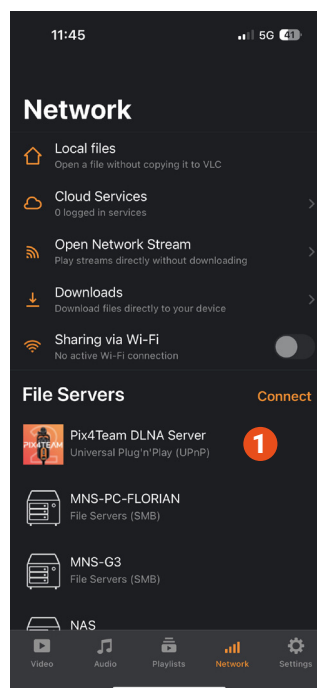
2. Play your PIX4TEAM2 videos on a remote device

Video playback with different devices using the DLNA function.

The DLNA function lets you share your videos recorded in the PIX4TEAM2 with different devices.

All you need is for your devices (smartphone / tablet / computer / TV) to be connected to the same Wi-Fi network as the PIX4TEAM2 robot.

For example, you can use the VLC application on your smartphone or tablet to access recorded videos. On your TV, simply access the Pix4Team DLNA Server 'source'. **1**



3. Live stream a video

To do live streaming and broadcast your game, you will need to connect your robot to the internet.

A. Connect the robot to the internet

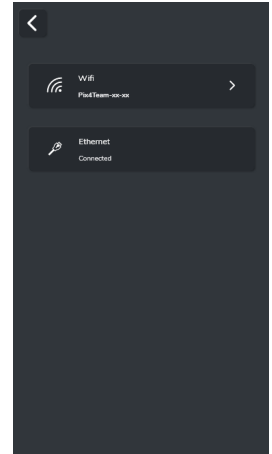
Go to the options of the app by pressing the button at the top  corner

Press internet configuration, then select the type of connection you prefer:

- **Ethernet:** by connecting the robot to your internet network using an RJ45 cable (Ethernet).
- **Wi-Fi:** via a Wi-Fi connection with your local Wi-Fi connection available
- **Wi-Fi:** via data sharing with a smartphone, tablet, etc.

Warning: displaying the Wi-Fi connection does not guarantee that it is not faulty.

- **Dual Wi-Fi:** via the smartphone with dual WiFi as remote control



When the robot is connected to the internet, the internet logo will change from red to green.



TIPS

If you plan to do connection sharing with a smartphone / tablet, you will need a smartphone / tablet dedicated to connection sharing. You will not be able to use the one used for the PIX4TEAM Remote application.

TIPS

Dual Wifi connection procedure

This section explains how to share the Internet connection to the PIX4TEAM from a smartphone while using the PIX4TEAM Remote application. This feature enables you, for example, to stream without the need for an independent Internet access point.

WARNING

This feature depends on the device used. Below is a non-exhaustive list of compatible devices.

iOS: iPhone 12 and +, iPad Pro 11 inches (3rd generation and +), iPad Pro 12.9 inches (5th generation and +) or iPad mini (6th generation and +)

Android: Samsung Galaxy S20 and +, OPPO Reno 10x Zoom (and other models with Oppo's ColorOS 6).

WARNING

To be compatible, the device must meet the following conditions:

- Have "dual Wi-Fi" capability, which means the ability to use two different Wi-Fi bands simultaneously, usually the 2.4 GHz band and the 5 GHz band.
- Must have a 4G/5G mobile data plan.

In your phone's settings, activate the Wi-Fi connection sharing function.

Then, in the access point configuration, make sure you select the 5 GHz band for the access point (note that the robot systematically uses the 2.4 GHz band for communications with the remote).

Identify the network name and password associated with it.

In the PIX4TEAM Remote application, access the Internet configuration settings. Choose the Wi-Fi option, then select the access point network. Enter the network password and confirm your settings.

ATTENTION

It's important to note that in this mode of operation, your phone's WiFi card is used both for transmission (as an access point) and reception (for communication with the PIX4TEAM). To achieve a high-quality video stream, it's essential that the access point has a solid connection, preferably using 5G. However, it's essential to understand that this method may not always be the best option, as using an independent Internet source is still generally preferable to guarantee optimum streaming quality.

ATTENTION

B. Start live broadcasting

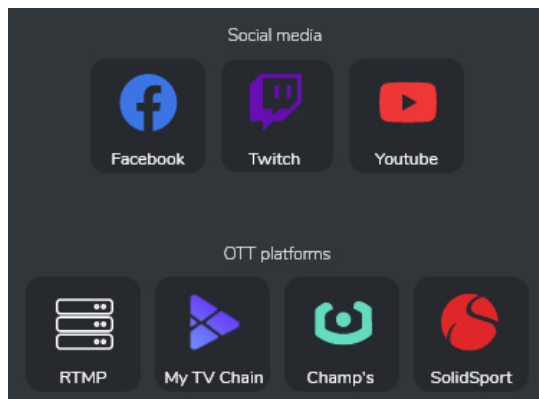
Tap the gear icon next to "Start live".

You then have two options for streaming via the PIX4TEAM Remote app.

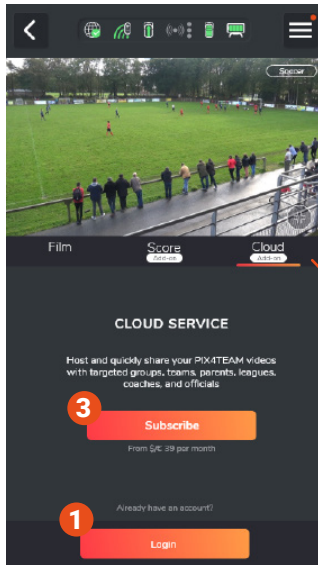
- Via the social networks Facebook / Youtube / Twitch. Press the network of your choice, and log in to your account. For a live broadcast on YouTube, it is necessary to obtain an initial validation from YouTube which usually takes 24 hours.

- Stream to an rtmp server by entering the address of this server

- Via OTT platforms



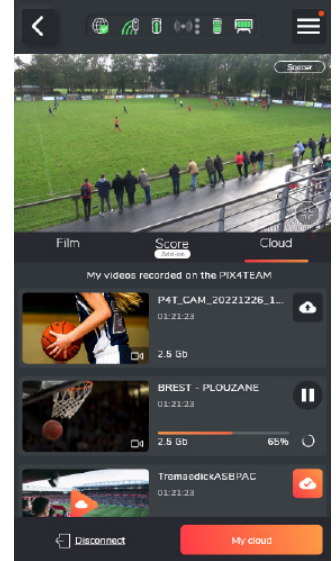
4. Host and quickly share your videos



You can quickly and easily host and share videos taken with the PIX4TEAM 2.

To get started, simply log in to your account by clicking on the 'Login' button **1** in the 'Cloud' tab **2**. If you don't yet have an account, you can create one on our website (cloud.movensee.com) by selecting 'Register' **3**. Then you'll need to take out a subscription.

Once you're connected, you can access all the videos captured by your PIX4TEAM 2 on its micro SD card.



Press the "Upload" button  to upload the video to the Cloud. Fill in the form for easy retrieval of your video at a later date, and select the maximum quality desired for the video.

WARNING

Once you've confirmed the upload form, you won't be able to change the maximum video quality.

WARNING



You can pause sending at any time , then resume at your convenience.



Once your upload is complete, the button will change state  to indicate that the video is now available in your Cloud space.

Click on the play button located on the video thumbnail to view it. You'll be automatically redirected to the Cloud's online player.

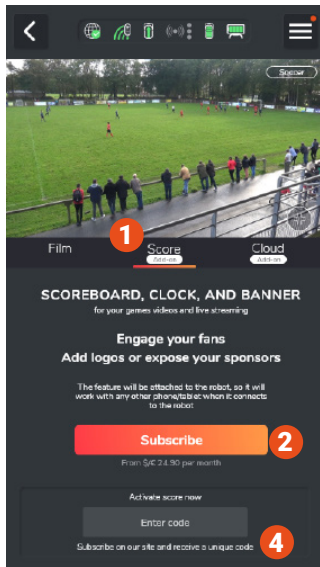


Explore our Cloud platform at cloud.movensee.com and discover a new way to share your videos with ease. Connect instantly with your groups, teams, family, leagues, coaches and referees, thanks to an interface designed for simplicity and performance.

Unleash your potential by creating infinite groups, ensuring optimal organization for every project. Our Cloud isn't just for PIX4TEAM videos. It opens the door to storing and sharing any kind of video that inspires you.

Explore cloud.movensee.com and discover how to make video sharing more captivating and engaging than ever.

E. Score and banner management



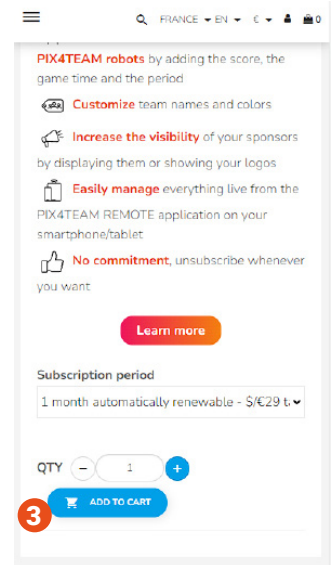
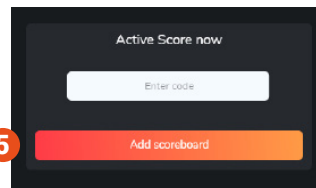
Go to the « Score » tab **1**.

Press the « Subscribe » button **2**. You will be redirected to our website. Put the « add-on Score » in your cart **3** then proceed with payment.

After your purchase, you will receive a confirmation email with a code to be activated in the PIX4TEAM Remote App.

In the PIX4TEAM Remote App, press **4** the « Enter code » square, enter your code and validate your entry by pressing « Add scoreboard » **5**.

To add these functionalities to your PIX4TEAM robot, the robot must be updated to version 2.7 or newer versions. The Remote App must also be updated to 2.7.0 or newer.. (see p.17)



You can log into your account at any time to manage your subscription and payment method.

You can now control the scoreboard, game time and banner.



Add an image that will be displayed on your live diffusions and when recording videos in your PIX4TEAM.

Banner:

- Dimension: 960 x 120 px
- Format: .jpg, .png (transparent backgrounds will be replaced with a white background)