

The RAPPA logo is displayed in white, stylized, blocky capital letters within a dark blue circle. This circle is part of a larger graphic design featuring overlapping light blue and white circular shapes on a blue background.

**RAPPA**



# A-TC20 NoirCam USER MANUAL

[www.a-dena.com](http://www.a-dena.com)

ADENA Limited 2026

**This manual provides information relevant to the installation of the A-TC20 NoirCam, as well as its functions and control methods in detail. Please read this manual carefully before installing and using the camera.**

- **A-TC20 NoirCam comes with its own power adapter. Power should not be extended from its jack, as it may cause damage to the device. Please avoid using third-party power adapters to avoid incompatibility and consequent damage to the equipment. Note that the A-TC20 NoirCam also supports PoE (802.3 af), meaning that you do not need to connect the power adapter if you use a PoE switch/injector.**
- **You should only store and transport the camera in its operating temperature range, which is between 0° and 40°. The ambient humidity range is from 10%RH to 90%RH.**
- **Avoid excessive shaking or applying force to the camera.**
- **To avoid electric shock, do not remove screws or housing from the camera. You should not attempt to repair the camera yourself. In case of technical issues, reach out to [www.a-dena.com](http://www.a-dena.com) for support.**
- **Use soft cloth to clean the camera. If it is very dirty, wet the cloth in a weak solution of water and neutral kitchen detergent. Wring all liquid from the cloth, then wipe the camera with it gently. Clear the remaining dirt with another dry, soft cloth. Use lens cleaning paper for the lens.**

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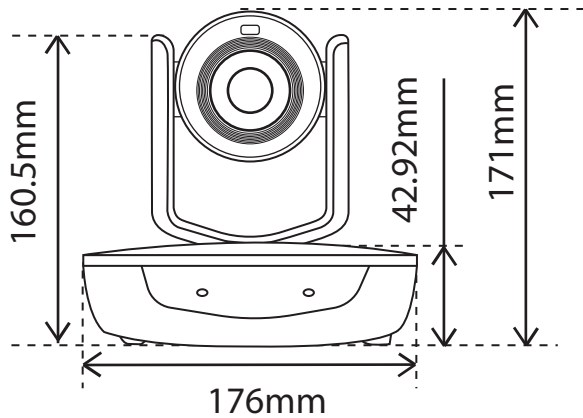
|                                                        |           |
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# 1. Product Overview

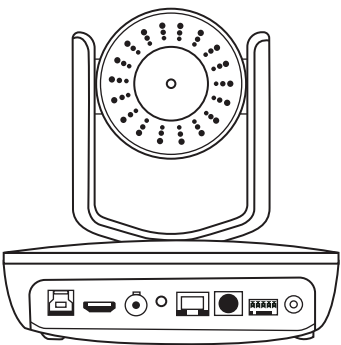
## 1.1 Physical Interface Description and Diagrams

Size and Dimension:

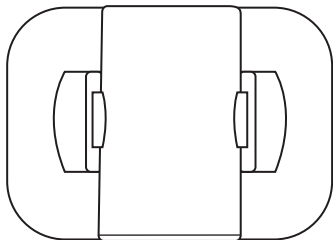
Front View



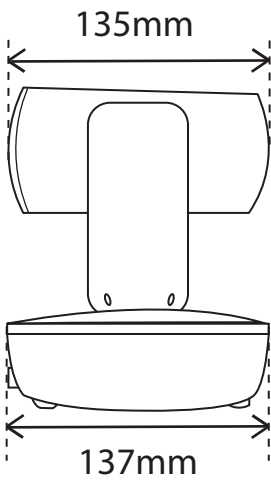
Rear View



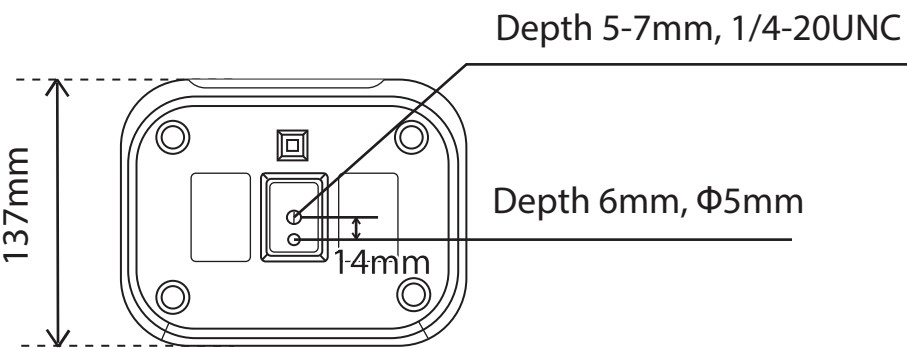
Top View



Side View

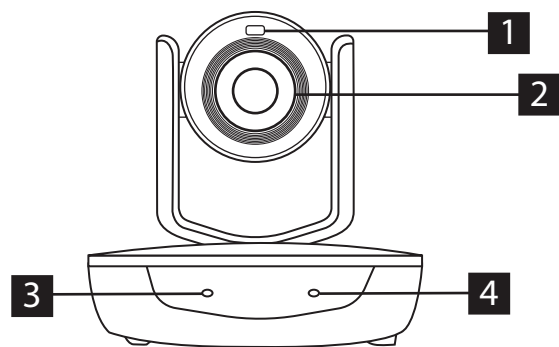


Bottom View

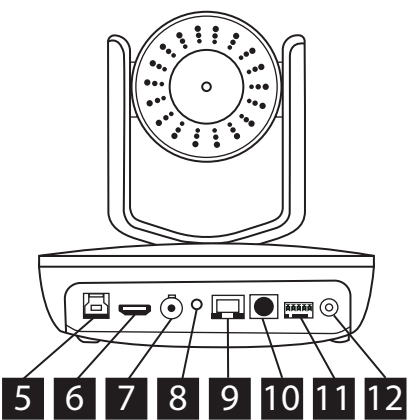


Main Parts & Interfaces:

Front View



Rear View

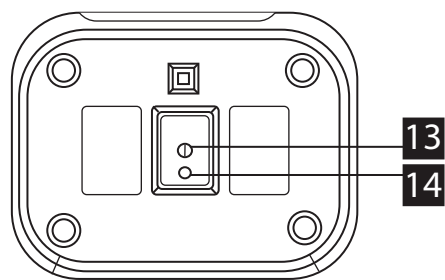


- 1. Tally light
- 2. Camera module
- 3. Power indicator
- 4. Status indicator

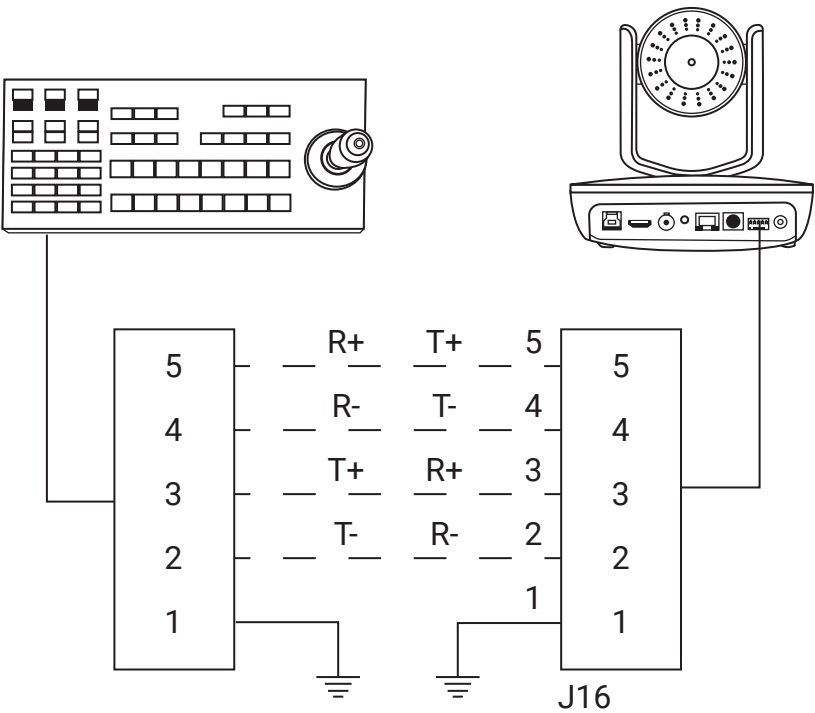
- 5. USB3.0 (Type-B)
- 6. HDMI
- 7. 3G-SDI
- 8. 3.5mm Line-in

- 9. RJ45
- 10. RS-232-IN
- 11. RS-485/422
- 12. DC 12V

Bottom View

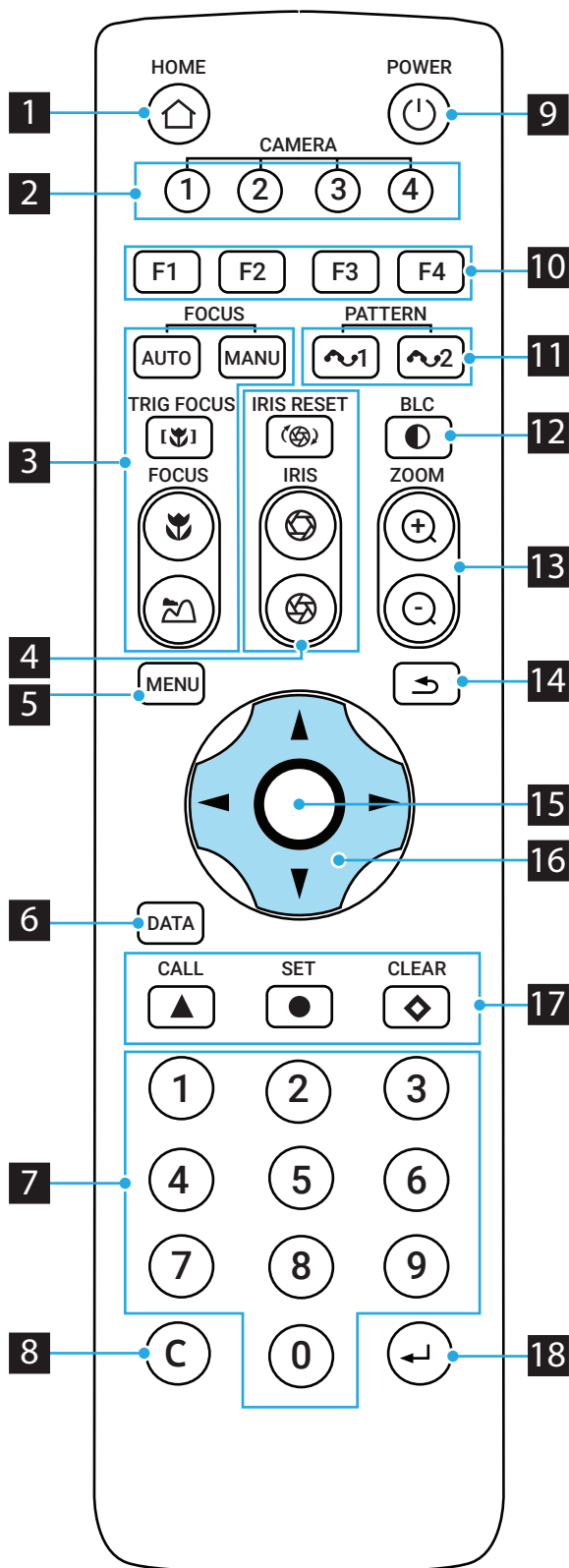


- 13. Mounting hole:  
1/4" screw thread for mounting the camera.
- 14. Locating hole:  
To define installation direction of the camera.



## 1.2 IR Remote Control Description

### IR Remote Controller



#### 1. Home

Press to return the camera to its initial position.

#### 2. Camera selection buttons

The numbers represent IR addresses. By default, the A-TC20 uses address 1. You can change your cameras' addresses and use these buttons to control cameras independently from each other.

#### 3. Focus control

Press "AUTO" for the camera to adjust focus automatically or "MANU" to adjust focus manually.

Press "🌱" to focus near and "🌲" to focus far.

Press "🌱" to trigger autofocus. The camera will stay in manual focus mode after that.

#### 4. Iris control

Press "🌀" to set the iris to its default value.

Press "🔍" to open the iris (making the image brighter).

Press "🔍" to close the iris (making the image darker).

#### 5. Menu

Press to open/close the camera's OSD menu.

#### 6. Data

Press to display/hide information, such as zoom ratio when zooming or preset set/clear statuses.

#### 7. Preset number keys

Press to call the preset with this number.

Hold a number to save the current PTZ position as this number. You can use presets 1 to 9 for this. To call preset 0, use "Call" → "0" → "Enter". To save preset 0, use "Set" → "0" → "Enter".

#### 8. Cancel

Reserved for future use.

## **9. Power**

Press to turn the camera on/off.

## **10. F buttons**

Reserved for future use.

## **11. Pattern**

Reserved for future use.

## **12. BLC**

Press to turn the back light compensation on/off.

## **13. Zoom**

Press “” to zoom in and “” to zoom out.

## **14. Back**

Press to go back to the previous menu.

## **15. OK**

When inside the camera's OSD menu, press this button to enter the selected menu.

Outside the camera's OSD menu, press this button to change pan / tilt speed.

## **16. Direction keys**

When inside the camera's OSD menu, press the up and down arrows to navigate in the menu and left and right arrows to change selections/values.

When outside the camera's OSD menu, press the arrows to tilt up/down and pan left/right.

## **17. Preset control buttons**

Call: Press “”, input the preset number, and press Enter to call it. This is used for calling preset 0, double and triple-digit preset numbers.

Set: Press “”, input the preset number, and press Enter to save it. This is used for saving preset 0, double and triple-digit preset numbers.

Clear: Press “”, input the preset number, and press Enter to clear it. This is used for clearing preset 0, double and triple-digit preset numbers.

## **18. Enter**

This button is used in combination with preset control buttons, see №17.

Some functions on A-TC20 can be activated by calling a preset. These are the available functions:

Preset 90: up in the OSD menu.

Preset 93: right in the OSD menu.

Preset 95: open OSD menu.

Preset 96: enter in the OSD menu.

Note that saving presets with these numbers will activate their function each time that preset number is called.

### **1.3 How to Quickly Start Up the Camera**

The A-TC20 NoirCam can be used out of the box. To use it as a USB camera, simply connect its power adapter or a PoE switch to supply power, and use the provided USB cable or alternative USB 3.0 Type-B cable to connect the camera to your device. It will be recognised as A-TC20. You can then adjust its video parameters through the software or hardware you are using, through the camera's OSD menu, or its web page.

To open or use the camera's RTSP network stream, open any network player, such as VLC, and enter either of the camera's RTSP addresses:

Main stream: `rtsp://IP address of the camera/ch1`

Substream: `rtsp://IP address of the camera/ch2`

The default IP address of the camera is 192.168.11.201. You can change it through the camera's web page.

The username and password to log in are:

Username: admin

Password: admin

You can also access the camera's preview and PTZ control through the ONVIF Device Manager or other ONVIF-compatible solutions, such as AREC Media Stations. When using ONVIF, the camera's username and password are as follows:

Username: admin

Password: admin

If you do not know how to change the IP address of your computer to access the camera, please refer to the video [Nº26 “How to Change the IP Address of your AREC Device”](#) available on ADENA Limited YouTube channel, <https://www.youtube.com/@ADENACHannel>. The video describes how to put your computer into the same subnet as the camera.

## 2. Web Interface Description

### 2.1 Page and Functions

Once you enter the IP address of your A-TC20 NoirCam, its web page will open. Enter the default username and password to access the settings. These are:

Username: admin

Password: admin

You can also tick the box to remain signed in on this computer for 7 days. Please note that should you change the IP address on either the PC or the camera during this time, you will need to log in again.

There are 8 subpages within the web interface of A-TC20:

- **Live View:** lists settings and controls related to the lens and PTZ, and it is also the page where you can see the live preview and access the camera's OSD menu.
- **Audio Config:** lists settings related to the line input.
- **Video Config:** lists settings related to the camera's network streams' encoding.
- **Media Config:** controls the RTSP port number, RTMP and SRT streaming from the camera.
- **NDI Config:** lists NDI-related information, allowing you to change the HX mode of the camera, its name, and other parameters.
- **Control Protocol Config:** lists VISCA control settings.
- **System Config:** controls the camera's usernames, passwords, and network settings. This is also where you can update the camera's firmware, reboot it, as well as reset it to factory settings.
- **Device Info:** shows the camera's model, current firmware version and MAC address.

## 2.1.1 Live View / OSD Menu Description

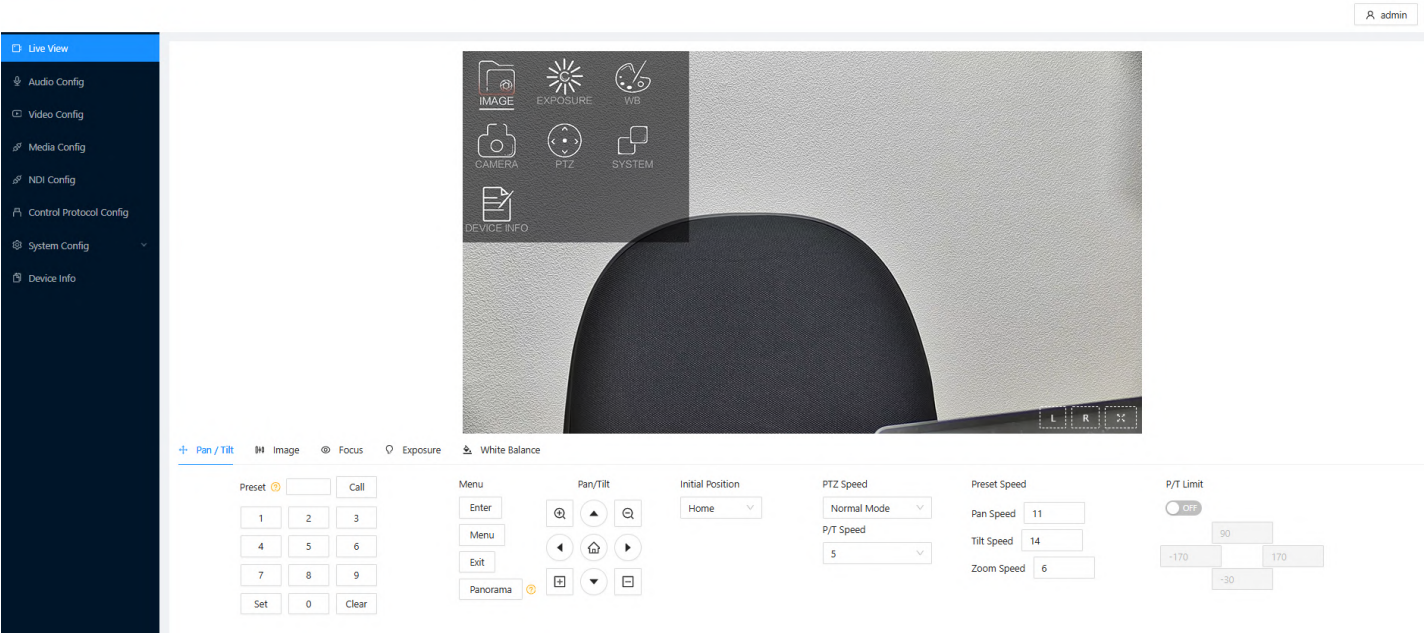
In the Pan / Tilt section of “Live View”, you can control the camera’s PTZ functions. You can zoom in and out using the “+” and “-” buttons on the right side of this page and control pan / tilt directions with the arrow buttons in the middle.

A-TC20 supports up to 255 presets. To set a preset, move the camera in your desired position, write a number from 0 to 255 in the preset field, and press “Set”. To call this preset, enter its number in the preset field and press “Call”.

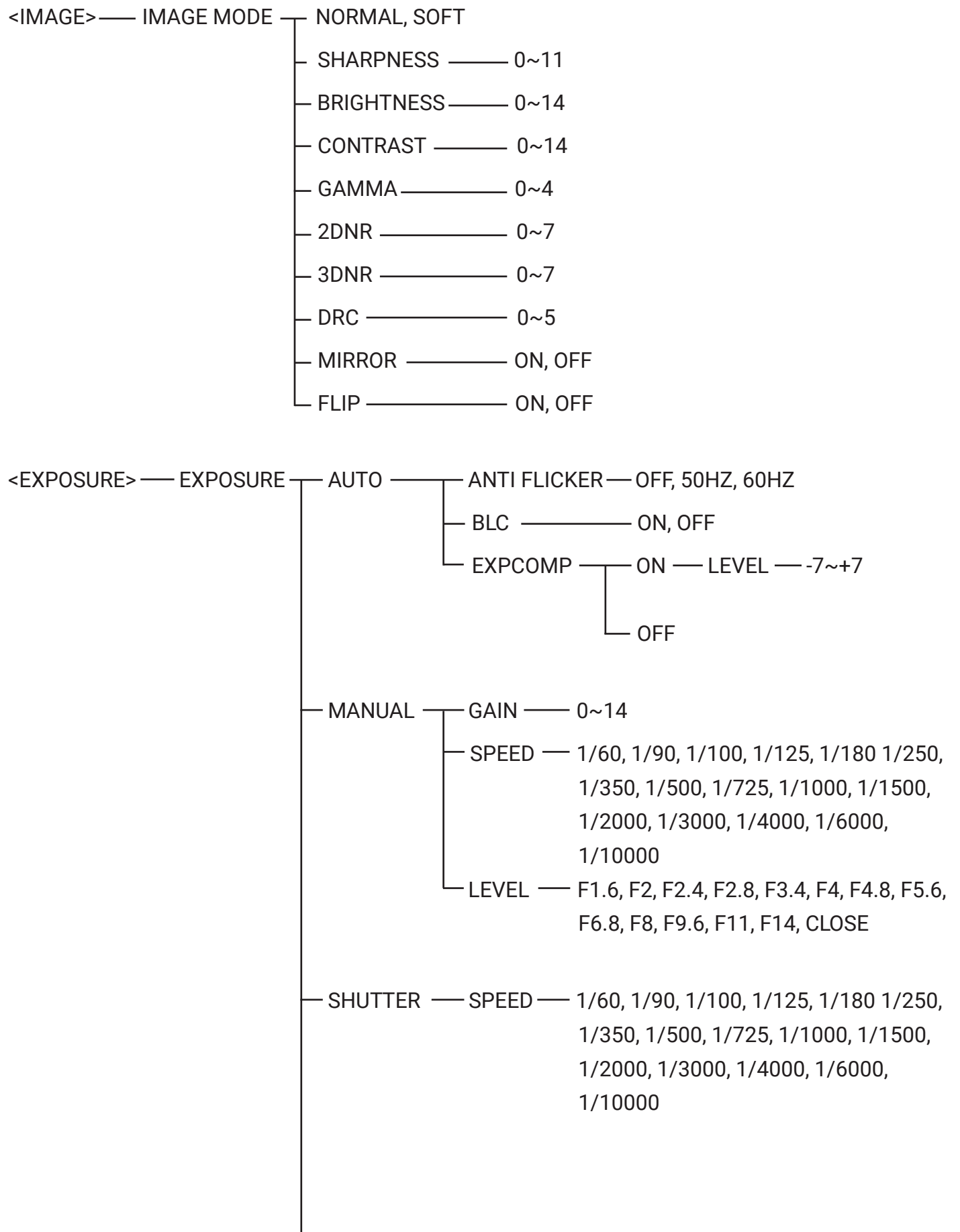
In the camera preview on the Live view page, you are able to flip and tilt the camera image. Please note that this does not affect the video output of the camera. If you would like to change the image orientation, you can do so in the image settings.

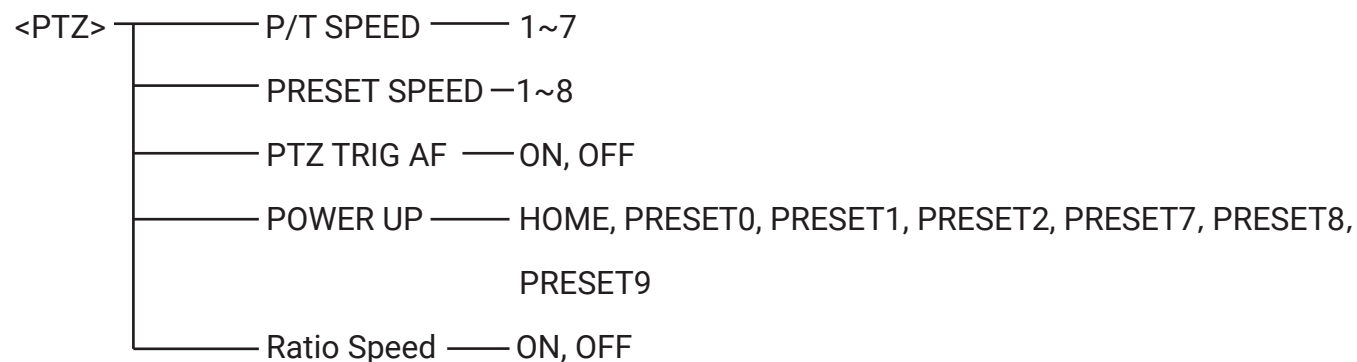
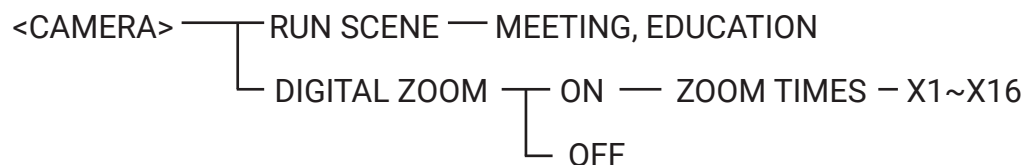
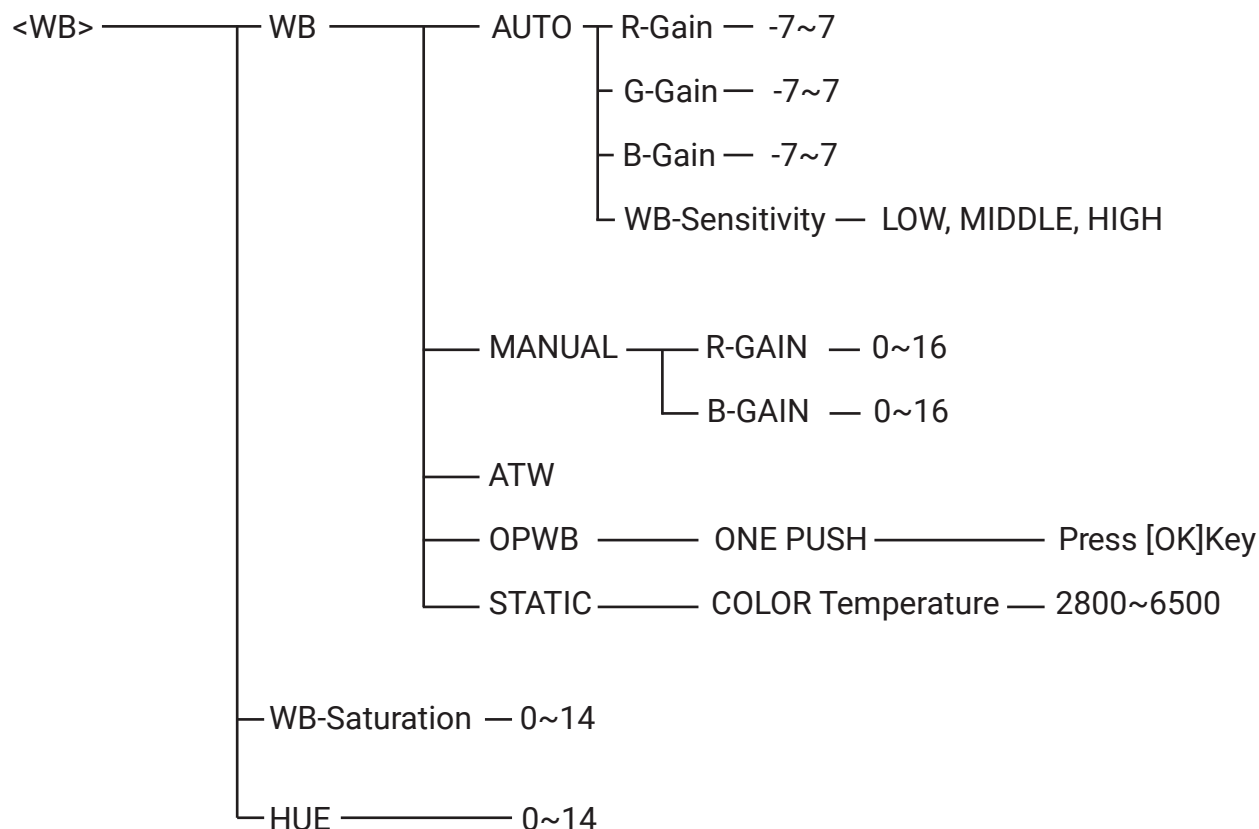
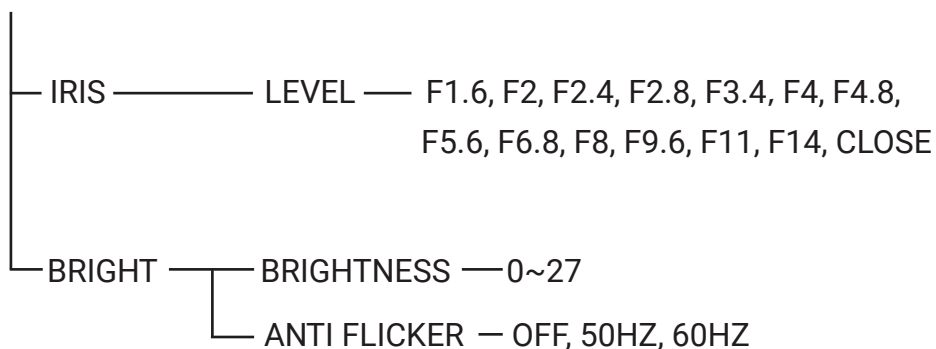
Note that the quality of camera preview on this page is controlled by the substream settings. If NDI|HX is enabled (it is by default), the preview on this page is locked to 360p regardless of substream settings.

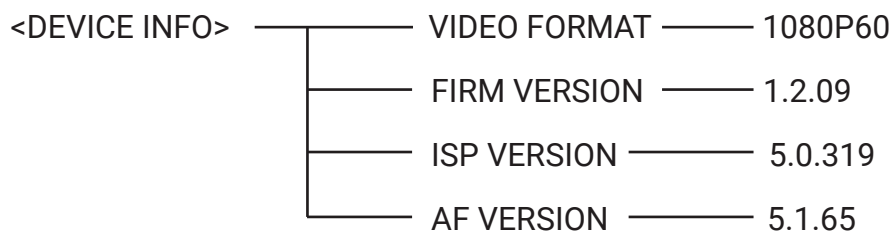
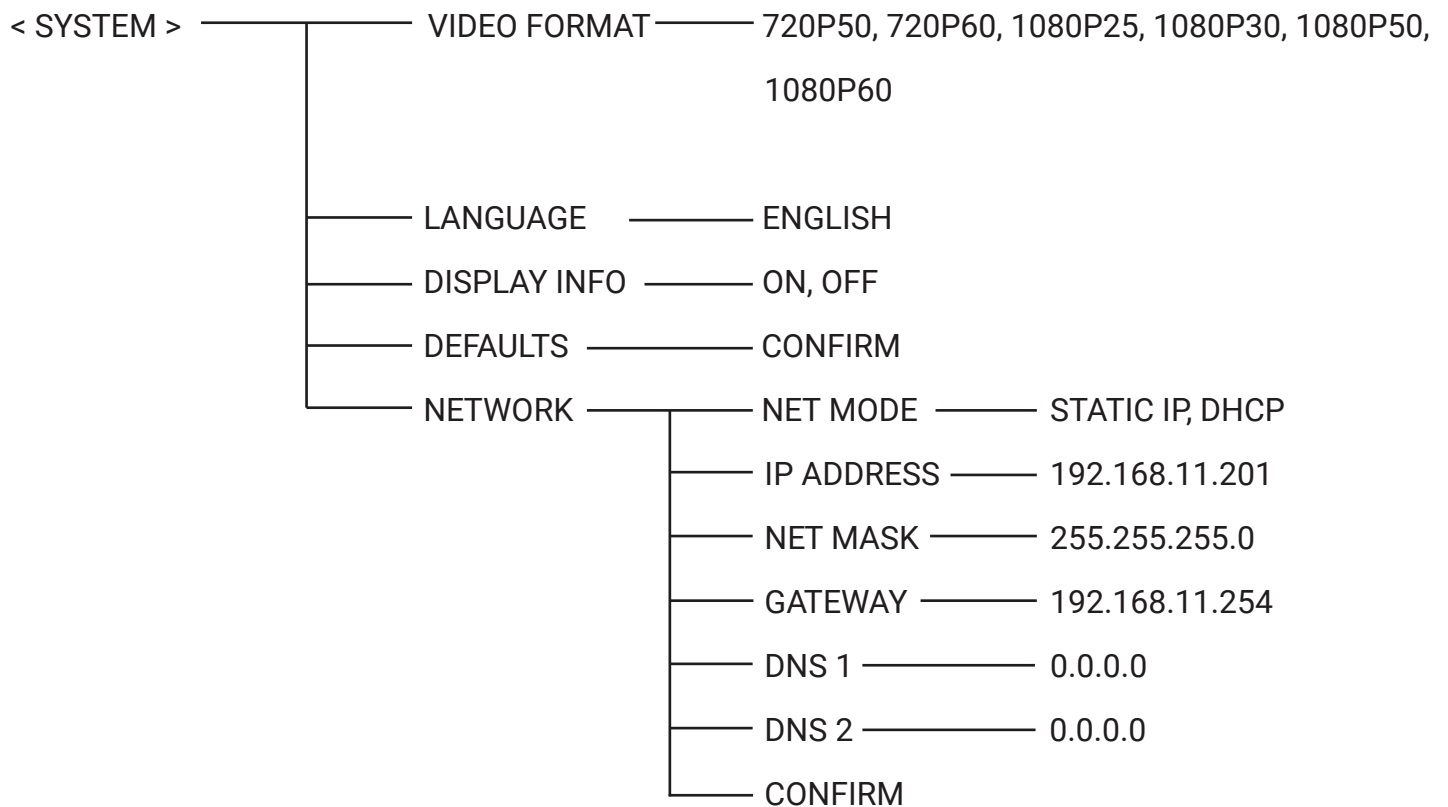
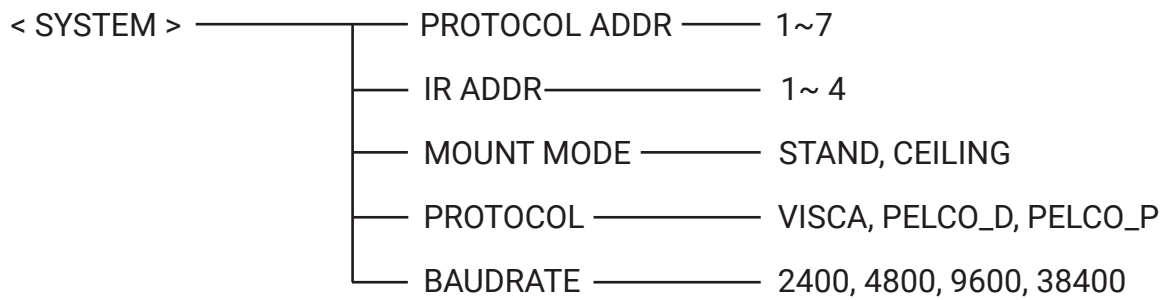
The Pan / Tilt section also includes the OSD menu of A-TC20. To enter it, click “Menu”. An interface like this will open in the camera’s preview:



The OSD menu can be used to configure various parameters of the camera. The complete menu tree is described below:







The camera's image settings can also be accessed through other sections on the Live View page: "Image", "Focus", "Exposure", "White Balance".

[Pan / Tilt](#)
[Image](#)
[Focus](#)
[Exposure](#)
[White Balance](#)

|                                        |                                    |                                       |                                         |
|----------------------------------------|------------------------------------|---------------------------------------|-----------------------------------------|
| Mirror<br><input type="checkbox"/> OFF | 2D NR<br>- <input type="range"/> + | Contrast<br>- <input type="range"/> + | Sharpness<br>- <input type="range"/> +  |
| Flip<br><input type="checkbox"/> OFF   | 3D NR<br>- <input type="range"/> + | Gamma<br>- <input type="range"/> +    | Brightness<br>- <input type="range"/> + |
|                                        |                                    |                                       | DRC<br>- <input type="range"/> +        |

[Pan / Tilt](#)
[Image](#)
[Focus](#)
[Exposure](#)
[White Balance](#)

Auto Focus

☒ ON

PT Assist

☒ ON

Focus

Far

Near

Digital Zoom

Off

Focus Area

Full

[Pan / Tilt](#)
[Image](#)
[Focus](#)
[Exposure](#)
[White Balance](#)

|                            |                       |                                             |                                                                 |                                                        |
|----------------------------|-----------------------|---------------------------------------------|-----------------------------------------------------------------|--------------------------------------------------------|
| Exposure Mode<br>Auto Mode | Anti Flicker<br>Off   | Gain<br>- <input type="range"/> +           | Exposure Brightness<br>- <input type="range"/> +                | Backlight Compensation<br><input type="checkbox"/> OFF |
| Aperture Level<br>F3.4     | Shutter Speed<br>1/60 | Exposure Level<br>- <input type="range"/> + | Exposure Compensation<br><input checked="" type="checkbox"/> ON |                                                        |

[Pan / Tilt](#)
[Image](#)
[Focus](#)
[Exposure](#)
[White Balance](#)

|                                 |                                            |                                     |                                                |                                            |
|---------------------------------|--------------------------------------------|-------------------------------------|------------------------------------------------|--------------------------------------------|
| White Balance Mode<br>Auto Mode | R-Gain<br>- <input type="range"/> +        | B-Gain<br>- <input type="range"/> + | Sensor R-Gain<br>- <input type="range"/> +     | Sensor B-Gain<br>- <input type="range"/> + |
| WB-Sensitivity<br>Middle        | WB-Saturation<br>- <input type="range"/> + | Hue<br>- <input type="range"/> +    | Color Temperature<br>- <input type="range"/> + | One Push                                   |

| Menu  | Options/Function                | Description                                                                                                                                                                                                                                                                                        |
|-------|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Image | Sharpness                       | Sharpness controls the clarity and contrast of the edges in images. Increasing the value will make it easier to distinguish objects and shapes but the image may appear pixelated at higher values.                                                                                                |
|       | Brightness                      | Controls how bright or dark the image appears.                                                                                                                                                                                                                                                     |
|       | Contrast                        | Controls the ratio between the brightest and the darkest areas of the image. Higher value increases the range of colours, making them richer and livelier.                                                                                                                                         |
|       | Gamma                           | Adjusts the image to match the perception of human eyes, making the image brighter. Setting it low makes darker objects harder to distinguish. Setting it higher makes everything brighter. Use the gamma slider to tune the image when shooting reflective surfaces and their surroundings.       |
|       | 2D NR (Dynamic Noise Reduction) | Removes noise from images by comparing frames. Setting it higher will increase the intensity of this process. 2D NR is most effective at resolutions below 1080p and on static images. Capturing moving images with 2D NR enabled can cause blurriness.                                            |
|       | 3D NR (Dynamic Noise Reduction) | Removes noise from single frames and compares frames to adjust for motion. Setting the value higher improves image quality and reduces jitter.                                                                                                                                                     |
|       | DRC (Dynamic Range Compression) | Controls the gap between the brightest and the darkest areas. Increasing the value reduces the gap between these opposites, making the overall tonal and brightness levels more even. It will help bring out the details in the darker parts of the image, but will flatten it and lower contrast. |
|       | Mirror                          | Turning on will rotate the camera image 180° horizontally.                                                                                                                                                                                                                                         |
|       | Flip                            | Turning on will rotate the camera image 180° vertically.                                                                                                                                                                                                                                           |
| Focus | Auto Focus                      | Turns auto focus on and off.                                                                                                                                                                                                                                                                       |
|       | PT Assist                       | The camera will focus automatically when the camera's PTZ is controlled.                                                                                                                                                                                                                           |
|       | Focus - Far                     | Press and hold to focus on the objects in the back.                                                                                                                                                                                                                                                |
|       | Focus - Near                    | Press and hold to focus on the objects in the front.                                                                                                                                                                                                                                               |
|       | Digital Zoom                    | Choose the maximum allowed level of digital zoom if any. Digital zoom is applied only after the maximum optical zoom is reached.                                                                                                                                                                   |

|          |                                     |                                                                                                                                                                                                                                                                        |
|----------|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Exposure | Exposure Mode - Auto Mode           | Automatically adjusts every parameter controlling how much light reaches the camera's sensor according to the environment.                                                                                                                                             |
|          | Exposure Mode - Manual Mode         | Select to manually control the shutter speed, gain, and aperture.                                                                                                                                                                                                      |
|          | Exposure Mode - Shutter Priority    | In this mode, gain and aperture are adjusted automatically, while shutter speed is adjusted manually.                                                                                                                                                                  |
|          | Exposure Mode - Aperture Priority   | In this mode, gain and shutter are adjusted automatically, while aperture level is adjusted manually.                                                                                                                                                                  |
|          | Exposure Mode - Brightness Priority | In this mode, gain, aperture, and shutter size are adjusted automatically, while exposure brightness is adjusted manually.                                                                                                                                             |
|          | Aperture Level                      | Aperture determines the size of the opening in the camera's lens, and as a result, how much light enters the camera and hits the image sensor. Lower aperture leads to a brighter image, but with shallower depth of field, and vice versa.                            |
|          | Anti Flicker                        | This option can help remove flickering and banding effects caused by light sources working on frequencies different from the camera. When using the camera in PAL countries (e.g. EU countries), select 50Hz. When using in NTSC countries (e.g. Mexico), select 60Hz. |
|          | Shutter Speed                       | Shutter speed determines how fast the camera shutter closes. Higher speed lets in less light.<br><br>This setting can also be used to reduce the effect of banding caused by light sources working on frequencies different from the camera.                           |
|          | Gain                                | Gain controls the amplification of the signal coming from the camera's sensor, making it more sensitive to light. Set higher to make the image brighter.                                                                                                               |
|          | Exposure Level                      | Changes the amount of light that reaches the camera's sensor. Higher values make the image brighter and vice versa.                                                                                                                                                    |
|          | Exposure Brightness                 | Changes the image's brightness. Increase the value to make the image brighter. This setting is only configurable in the Brightness Priority mode.                                                                                                                      |
|          | Exposure Compensation               | Automatically adjusts brightness to properly expose images.                                                                                                                                                                                                            |
|          | BLC (Backlight Compensation)        | Automatically adjusts the overall level of exposure in the image to compensate for strong backlight in a scene.                                                                                                                                                        |

|               |                                   |                                                                                                                                                                                                                                                                                                        |
|---------------|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| White Balance | White Balance Mode - Auto Mode    | Automatically controls how colours are captured by the camera, making them look natural and accurate, regardless of the lighting conditions.                                                                                                                                                           |
|               | White Balance Mode - Manual Mode  | Select this to manually adjust the colour temperature, saturation and hue of your image.                                                                                                                                                                                                               |
|               | White Balance Mode - ATW          | Auto tracking White Balance Mode (ATW) continuously and automatically adjusts the camera's white balance to adapt to changing lighting conditions. Unlike the "Auto Mode", ATW tracks changes very actively, and so it is more suitable for environments with frequently shifting lighting conditions. |
|               | White Balance Mode - One Press WB | Select this mode to adjust the colour temperature automatically according to a reference point. Point the camera at a neutral-coloured object (ideally, white) and click "One Push" to make it work.                                                                                                   |
|               | White Balance Mode - Static       | Select this mode to prevent the colour temperature from changing. You can manually set saturation, hue, and colour temperature.                                                                                                                                                                        |
|               | WB-Sensitivity                    | Controls how responsive the camera is to changes in the colour temperature of the light in the environment. The higher the value, the faster the camera will adjust to changes. Higher values may make the image look overly processed because of constant adjustment.                                 |
|               | R-Gain                            | Increases or reduces the intensity of red colour.                                                                                                                                                                                                                                                      |
|               | B-Gain                            | Increases or reduces the intensity of blue colour.                                                                                                                                                                                                                                                     |
|               | G-Gain                            | Increases or reduces the intensity of green colour.                                                                                                                                                                                                                                                    |
|               | WB-Saturation                     | Controls the purity and intensity of colours. Increasing saturation makes colours appear more vivid and vibrant, decreasing makes colours appear more muted, grayscale.                                                                                                                                |
|               | Hue                               | Controls the overall colour of the image.                                                                                                                                                                                                                                                              |
|               | Sensor R-Gain                     | Increases or reduces the sensitivity to red colour in the camera's image sensor.                                                                                                                                                                                                                       |
|               | Sensor B-Gain                     | Increases or reduces the sensitivity to blue colour in the camera's image sensor.                                                                                                                                                                                                                      |
|               | Colour Temperature                | Changes colour temperature (in K). Using lower values introduces colder tones, while higher values provide warmer tones.                                                                                                                                                                               |
|               | One Push                          | When using White Balance Mode - One Press, click this button to adjust the balance of the white colour based on what is visible by the camera right now.                                                                                                                                               |

## 2.1.2 Audio Config

The screenshot shows the 'Audio Config' page. On the left is a dark sidebar with a menu: 'Live View', 'Audio Config' (highlighted), 'Video Config', 'Media Config', 'NDI Config', 'Control Protocol Config', 'System Config', and 'Device Info'. The main content area is titled 'Audio Config' and contains the following settings: 'Enable Audio' with a toggle switch turned on; 'Audio Input' with a radio button selected for 'Line-In'; 'Sample Rate' with a dropdown menu set to '48KHz'; and 'Audio Volume' with a slider and '+' and '-' buttons. At the bottom are 'Save' and 'Refresh' buttons. In the top right corner, there is a user profile icon and the text 'admin'.

On this page you can enable or disable audio input on the camera. You can adjust the volume of the camera by using the slider or “+” and “-” buttons. Press the “Save” button to apply the settings.

## 2.1.3 Video Config

The screenshot shows the 'Video Config' page. The sidebar menu is the same as in the previous screenshot, with 'Video Config' highlighted. The main content area is titled 'Video Output Config' and contains the following settings: 'Stream Type' with a dropdown menu set to 'Main Stream'; 'Resolution' with a dropdown menu set to '1080P'; 'Bit Rate Type' with a dropdown menu set to 'Constant Bit Rate'; 'Bit Rate Kbps' with a text input field containing '8000'; 'Video Frame Rate' with a dropdown menu set to '30'; 'Encoding Type' with a dropdown menu set to 'H264'; 'Encoding Level' with a dropdown menu set to 'High'; and 'I-Frame Interval' with a dropdown menu set to '30'. Below these settings are 'Save' and 'Refresh' buttons. Underneath is a section titled 'Video Format Config' with a 'Video Format' dropdown menu set to '1080P60' and another 'Save' and 'Refresh' buttons. The user profile icon and 'admin' text are in the top right corner.

You can customise the network stream and HDMI/3G-SDI outputs of the A-TC20 on the Video Config page. Select which stream to customise under “Stream Type” and adjust its parameters as needed. There is a number of settings that can be customised:

- **Stream type:** choose between the main stream and sub stream.
- **Resolution:** resolution determines the amount of pixels in an image. The higher the resolution, the better the image quality.
- **Bit Rate Type:** choose between a constant bit rate (CBR) and variable (VBR). CBR keeps the same bit rate throughout the video, leading to consistent quality, but higher network load. VBR dynamically adjusts the bit rate based on the scene complexity, leading to lower network load.
- **Bit Rate Kbps:** specify the bit rate in Kbps, up to 16383. The higher the bit rate, the more data is transferred, and the higher the video quality is as a result.
- **Video Frame Rate:** specify the camera's FPS from 1 to 60 frames a second (main stream) or 1 to 30 frames a second (sub stream).
- **Encoding Type:** choose between the H.264 and H.265 video compression. H.264 is more widely compatible and is the default option on AREC Media Stations. H.265 offers better image quality results at lower bitrates, but is not as widely supported.
- **Encoding Level:** choose between the different video compression profiles. High profile offers the best compression results and image quality and is the standard choice these days. Main and base profiles perform worse, but are better supported by older hardware.
- **I-Frame Interval:** the amount of frames there is before an I-frame is taken (full image captures that show everything the camera sees). Setting it lower will increase the bandwidth usage by the camera, but increase the accuracy of the image. Intervals above 75 are only recommended for low activity scenes. For general conferencing rooms, we suggest setting 25 to 30 frames.
- **Video Format:** set the resolution of the HDMI and 3G-SDI outputs. This is independent from the camera's network stream and USB output.

## 2.1.4 Media Config

The screenshot shows the 'Media Protocol Config' page. On the left is a dark sidebar with navigation links: Live View, Audio Config, Video Config, Media Config (highlighted), NDI Config, Control Protocol Config, System Config, and Device Info. The main content area has a top right user bar with 'admin'. The 'Media Protocol Config' section is divided into three tabs: RTSP, RTMP(S), and SRT. The RTSP tab is active, showing a 'Protocol Port' field with the value '554' and a warning icon. Below it are 'Save' and 'Refresh' buttons. The RTMP(S) tab is also visible, showing 'Stream 1' and 'Stream 2' configurations. Each stream has an 'Enable' toggle (currently off), a 'Stream Type' dropdown (set to 'Main Stream' for Stream 1 and 'Sub Stream' for Stream 2), and a 'Stream Address' field. 'Save' and 'Refresh' buttons are at the bottom of the RTMP(S) section. The SRT tab is currently inactive, showing an 'Enable' toggle (off), a 'Connection Mode' dropdown (set to 'Listener'), and fields for 'URL' and 'Stream ID'.

The A-TC20 can livestream two RTMP feeds simultaneously, and you are able to choose which streams to use for that. You can configure live streaming through the “Media Config” page of the camera. It is also the page where you can change the camera’s RTSP port.

To start live streaming, first, toggle the “Enable” button for a stream you would like to start. Next, select which stream to push: the main or the substream. Lastly, write your server URL and stream key in the field on the right. The link structure for the A-TC20 is the same as on AREC Media Stations:

`rtmp://server url/stream key`

Using YouTube as an example, open YouTube.com, press “Create” → “Go Live”.

The screenshot shows the YouTube Studio interface. At the top, there's a 'Stream key: Default stream' dropdown and a red box around a copy icon. Below this is a large box with the text 'Connect your encoder to go live' and instructions to copy and paste a stream key. At the bottom, there's a 'Stream settings' section. It includes a 'Dual stream' toggle (off), a 'Stream URL' field with the value 'rtmp://a.rtmp.youtube.com/live2' and a red box around a 'Copy' button, and a 'Backup server URL' field with the value 'rtmp://b.rtmp.youtube.com/live2?backup=1' and another red box around a 'Copy' button. To the right of the stream settings is a section for stream metadata: Title ('NoirCam Stream Example'), Category ('Science & Technology'), Privacy ('Unlisted'), and Viewers waiting (0) and Likes (0).

In the page that opens, first, copy the “Stream URL” and paste it in the camera’s page. Add a forward slash “/” after it. Then, copy the “Stream key” and paste it in the same field. In the end, it should look like this:

The screenshot shows the 'Media Protocol Config' page. The sidebar on the left lists various configuration options, with 'Media Config' currently selected. The main panel is divided into three sections: RTSP, RTMP(S), and SRT. The RTSP section shows a 'Protocol Port' of 554. The RTMP(S) section shows two streams; Stream 1 is enabled and configured with a specific YouTube RTMP address, while Stream 2 is disabled. The SRT section is currently disabled. The interface includes 'Save' and 'Refresh' buttons for each section. A top-right corner shows the user 'admin' is logged in.

Press “Save” and “Refresh”. The camera will start streaming and your live stream preview should appear on YouTube shortly after.

In case YouTube or another platform does not get the live stream, please double-check that the DNS settings of your camera are configured correctly (on the “System Config” -> “Ethernet Config” page) and that the RTMP port, YouTube or other streaming service you are using is not blocked/-firewalled for the camera in your network.

The A-TC20 also supports SRT streaming in Caller and Listener modes. Fill out the fields according to the information from the streaming platform/hardware you are using and press “Save” to apply changes and start streaming..

## 2.1.5 NDI Config

admin

NDI

NDI Enable: ☒ Multicast Enable: ☐

NDI HX Mode:  Multicast IP:

NDI Group Name:  Multicast Netmask:

NDI Device Name:  Discovery Enable: ☐

NDI Stream Name:  Discovery Service IP:

Save Refresh

The A-TC20 comes with an NDI|HX licence and can be seen and used by all NDI|HX devices in the same network. There are several options that can be configured on this page:

- **NDI|HX Mode:** choose between the NDI|HX2 and HX3. HX3 is a more advanced version of NDI, but it requires significantly more bandwidth and relies on H.265, which may make it incompatible with certain software and systems. HX2 requires less resources and is supported by more hardware.
- **NDI Group Name:** group names are used to control access and visibility of NDI devices in a network. By default, all devices are in the “Public” group, visible and accessible by other devices in this group. You can change the group name to restrict access to the camera.
- **NDI Device Name:** how the camera is identified via NDI.
- **NDI Stream Name:** how the camera’s stream is called.

In addition, it is possible to enable NDI Multicast on the A-TC20. This allows the camera to send a single stream to the network to be accessed by many users instead of sending them each an individual stream. Multicast is supported only on certain networks with the right configuration, as improper configuration can be crippling.

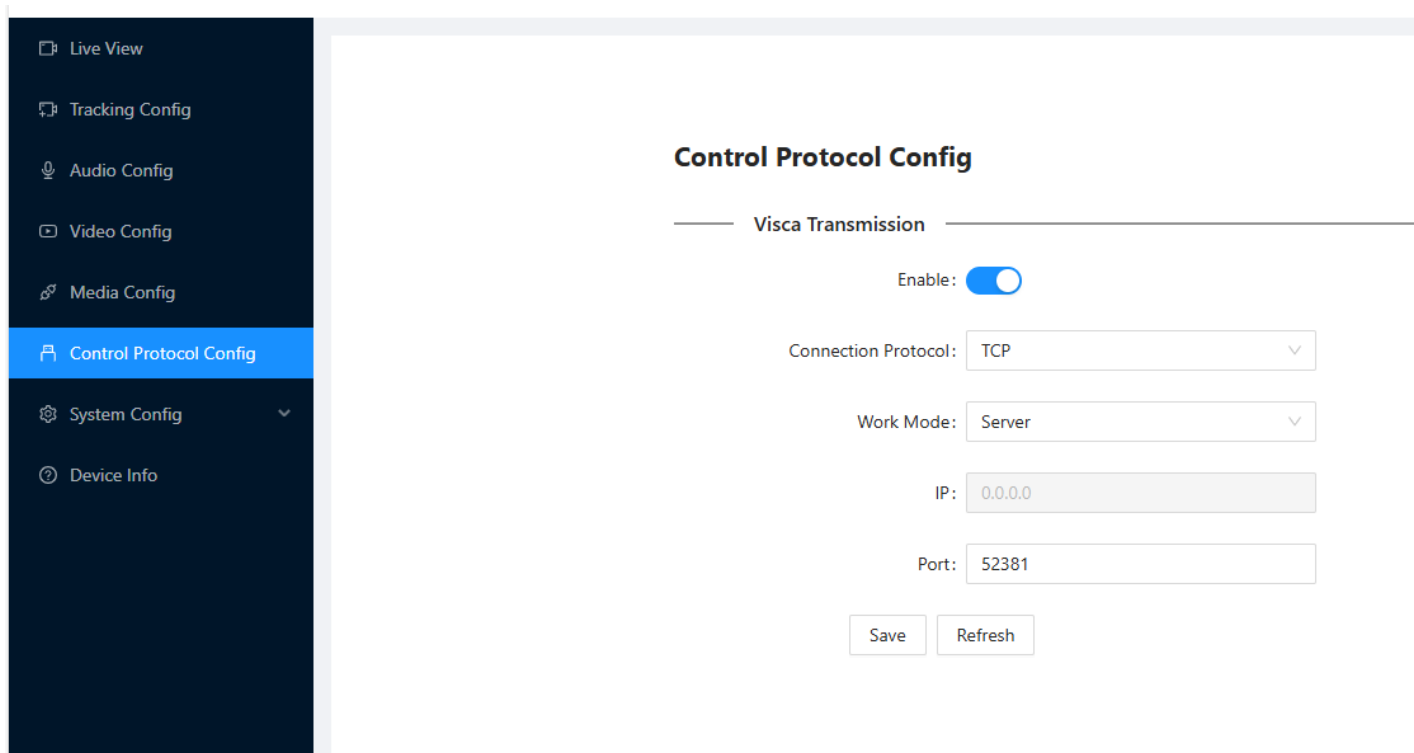
## 2.1.6 Control Protocol Config

The Control Protocol Config page allows you to configure VISCA settings of your camera. By default, A-TC20 are already preconfigured to be controlled by AREC Media Stations. You can enable or disable VISCA by toggling the button on this page. Should you at some point change the settings and need to return them back, your camera should be set up as follows to be controlled by AREC devices:

Protocol: TCP

Work Mode: Server

Port: 52381



The screenshot shows a web interface for configuring a camera. On the left is a dark blue sidebar with a list of menu items: Live View, Tracking Config, Audio Config, Video Config, Media Config, Control Protocol Config (highlighted in light blue), System Config, and Device Info. The main content area is white and titled 'Control Protocol Config'. Below the title is a section header 'Visca Transmission' with a horizontal line. Under this section, there is an 'Enable' toggle switch that is turned on (blue). Below the toggle are four configuration fields: 'Connection Protocol' with a dropdown menu showing 'TCP', 'Work Mode' with a dropdown menu showing 'Server', 'IP' with a text input field showing '0.0.0.0', and 'Port' with a text input field showing '52381'. At the bottom of the configuration fields are two buttons: 'Save' and 'Refresh'.

To add VISCA controls for the camera on AREC Media Stations, select the signal type “IP Source” with the RTSP protocol from the list (the default link is rtsp://ip address of the camera/ch1) and VISCA-over-IP protocol in the “PTZ Control”. Type the IP address of the camera in the “IP address” field as on the image below:

**1**

---

**Name :**

**Signal type :**

IP source

**Protocol :**

RTSP

**Primary URL :**

**Secondary URL :**

**PTZ control :**

VISCA over IP

**IP address :**

**Apply**

## 2.1.7 System Config

System Config page of the A-TC20 consists of three small subpages:

- 1. User Management:** this is where you can manage users and passwords. Press “Add User” to create a new user or operator. “User” permissions allow full control of the camera with the exception of managing users and firmware updates. “Operator” permissions are similar, but also allow managing users. Both of these user types can be deleted at any time by the Administrator account.
- 2. Ethernet Config:** this page allows you to configure the camera’s network settings, turn on/off DHCP, change its IP address, gateway, subnet mask, and DNS settings.
- 3. Firmware Update:** this page allows you to upgrade the camera’s firmware. You can download the latest firmware from our website at [www.a-dena.com](http://www.a-dena.com). To update the camera, simply download the update file from our website and drag it on the firmware update area or click on it to select the file and apply. The camera must restart after applying the update.  
You can also reboot the camera on this page or reset it to default settings by clicking the respective buttons.

## 2.1.8 Device Info

This page shows the camera’s name, firmware version, and its MAC address. If you run into issues while using the camera, please write down the firmware version you see on this page and send it to us along with the description of the issue you are experiencing.