

ATEM Mini Pro RTMP Settings for Foveo

Recommended setup and live streaming settings for Foveo

Purpose: This guide explains how to connect an ATEM Mini Pro to Foveo by RTMP, add Foveo as a streaming destination, select the recommended quality setting, and verify a stable Foveo input before a service.

1. Recommended settings

Setting	Recommended value	Notes
Protocol	RTMP	Use the Foveo RTMP URL and unique IP Camera stream key.
Platform	FOVEO	Select FOVEO in Output > Live Stream.
Server	FOVEO Primary	Select the custom FOVEO Primary server.
Streaming quality	Streaming Medium	Recommended for most funeral-home connections.
Stream Output	1280 x 720P/30FPS (@1 Mbps)	The resulting stream should be 1280 × 720.
Frame rate	30	Use 30 fps.
Video bitrate	3000 Kbps (CBR)	User-authorized value: 3000 Kbps (CBR).
Keyframe interval	4 seconds	Required published value: 4 seconds.
Video codec	H.264 (Main)	Built into the ATEM Mini Pro encoder.
Audio codec	AAC	Built into the ATEM Mini Pro encoder.
Audio bitrate	128 kbits/sec	Managed automatically by the ATEM preset.

Audio sample rate	48.000 kHz	Use 48 kHz when manually configuring.
Audio channels	2 (Stereo)	Use Stereo when manually configuring.
Rate control	CBR	Use the user-authorized CBR setting.

Select Streaming Medium in ATEM Software Control. Required guide values, including the user-authorized bitrate and rate-control change: Stream Output — 1280 x 720P/30FPS (@1 Mbps); Bitrate — 3000 Kbps (CBR); Audio Sync Offset — 110 ms (requires local testing and tuning); Bit rate stats duration — 60 seconds; Keyframe interval — 4 seconds; Stream Level — 5.1; Threads — 4; Application — FFMPEG; Scanning — Progressive.

2. Before you begin

- An ATEM Mini Pro connected to power, your cameras, and the intended audio source.
- A Windows computer with ATEM Software Control installed. The custom-service steps below use the Windows installation path supplied by Foveo.
- Your Foveo.app sign-in and permission to access Streams > IP Cameras.
- Google Chrome for checking the incoming Foveo camera preview.
- A stable wired Ethernet connection with upload speed at least twice the selected streaming bitrate.

3. Prepare ATEM Software Control

Install ATEM Software Control on the Windows computer used to configure the switcher. Connect the ATEM Mini Pro by USB or network, open the software, and confirm that the intended camera and audio sources work correctly before editing the streaming service file.

4. Get the Foveo RTMP URL and Stream Key

1. In Google Chrome, sign in to Foveo.app.
2. From the left menu, open Streams > IP Cameras.
3. If a suitable IP Camera connection is not listed, select + Create.
4. Give the connection a clear name, such as ATEM - Main Chapel or ATEM - Videographer, and select Save.
5. Select the camera name to reveal its RTMP URL and unique RTMP Key.

☰ IP Cameras

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Streams

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☐	Name	Connected	Last Connected At	Creation Date	
☐	Chapel Camera	×		6/24/2025	 EDIT  DELETE

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☰ Edit IpCamera Camera1

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Streams

List

Calendar

 IP Cameras

Videos

Families

BACK

Name *

Camera1

RTMP URL

rtmp://v2api.foveo.app:1935/ip-camera

RTMP Key

bc75743ca1

 SAVE

 DELETE

Keep the key private: Use the key displayed in your own Foveo account. Do not reuse an example key shown in a screenshot or another funeral home's connection.

5. Add Foveo to the ATEM streaming services

1. Close ATEM Software Control before editing its streaming-services file.
2. In File Explorer, open: C:\Program Files (x86)\Blackmagic Design\Blackmagic ATEM Switchers\ATEM Software Control
3. Find Streaming.xml, right-click it, and choose Open With > Notepad.
4. Copy an entire existing service block, beginning with <service> and ending with </service>.
5. Paste the copied block immediately above the final </streaming> line. Do not paste it below that line.
6. In the copied block, change the service name to <name>FOVEO</name>.
7. Change the copied block URL to <url>rtmp://v2api.foveo.app:1935/ip-camera</url>, and change the server name to <name>FOVEO Primary</name>. Save the file. Do not use Save As.

Required XML values

- Service name — FOVEO
- URL — rtmp://v2api.foveo.app:1935/ip-camera
- Server name — FOVEO Primary
- Placement — Immediately above the final </streaming> line

Important: Close ATEM Software Control before editing Streaming.xml. Save the existing file in place; do not use Save As.

6. Select Foveo and enter the Stream Key

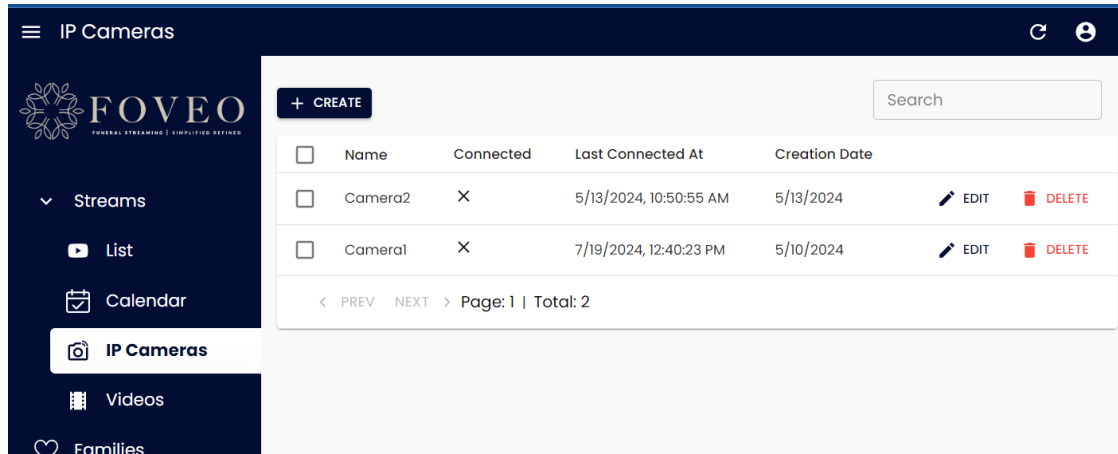
1. Reopen ATEM Software Control, then select Output > Live Stream.
2. From the Platform menu, select FOVEO.
3. From the Server menu, select FOVEO Primary.
4. Paste the unique Foveo Stream Key into the Key field.
5. Click once outside the Key field so the ATEM saves the key properly.
6. Set Quality to Streaming Medium.

Note: Blackmagic ATEM switchers may require the Stream Key to be entered again when using a custom streaming service.

7. Test the connection to Foveo

1. Confirm the intended camera and audio are working through the ATEM Mini Pro.
2. Click ON AIR in ATEM Software Control, or press the ON AIR button on the ATEM Mini Pro. The button should turn red.
3. In Foveo.app, return to Streams > IP Cameras and refresh the page.
4. Confirm that the camera shows Connected and a recent time under Last Connected At. Select the camera name and confirm that the live preview appears in Google Chrome.

5. Listen for audio and allow for the normal short delay between the ATEM source and the Foveo preview.
6. When the test is complete, press ON AIR again to stop the ATEM encoder.



8. Check audio and video

1. Watch a person speak and confirm that the picture and sound are clear and synchronized. Use the published 110 ms Audio Sync Offset when that control is available, then test and tune locally.
2. Confirm the intended ATEM audio input is turned on and its level meters move when someone speaks.
3. Listen for distortion, low volume, room echo, or unintended audio sources before the service.
4. If audio and video are not synchronized, correct the timing in the connected camera, audio equipment, or ATEM configuration, then retest.
5. Retest the complete path in the Foveo camera preview after every adjustment.

9. Pre-service test

1. Start the ATEM encoder connection at least 20 minutes before the scheduled broadcast.
2. Confirm the intended camera framing and that the ATEM program feed is correct.
3. Confirm the ATEM audio meters are moving and speech is clear.
4. Confirm the Foveo IP Camera shows Connected and a current connection time.
5. Open the Foveo camera preview and confirm picture, audio, frame rate, resolution, and stability.
6. Allow for the expected 15-20 second delay.
7. Only after the feed is stable, use Start Broadcast or GO LIVE in the Foveo Director Panel when you are ready for guests to watch.

10. What to do if there is a problem

- Foveo does not show Connected: Confirm the ATEM ON AIR button is red. Recheck the FOVEO service block, FOVEO Primary server, and Stream Key.
- Connected, but no usable preview: Wait for the normal delay, refresh the IP Cameras page, reopen the camera record, and confirm the ATEM program output contains the intended feed.
- No audio: Confirm the correct ATEM audio source is turned on, not muted, and showing activity on its audio meter.
- The custom service is missing: Close ATEM Software Control, confirm the FOVEO block is inside Streaming.xml immediately above </streaming>, save the file, and reopen the software.
- The stream is unstable: Check upload bandwidth, reduce competing network use, use wired Ethernet, and confirm Quality is set to Streaming Medium.

11. Important notes

- There is normally a short delay between the ATEM Mini Pro feed and the Foveo preview or guest broadcast.
- The Stream Key is unique to the selected Foveo IP Camera connection and should be kept private.
- Starting the ATEM encoder does not automatically make the funeral live to guests. Confirm the feed first, then use Foveo's GO LIVE control.
- The custom FOVEO service normally needs to be added only once. The Stream Key may need to be entered again when using a custom streaming service.

Need help: Contact Foveo Support at support@foveo.org. Include the funeral-home name, IP Camera name, ATEM Software Control version, and screenshots of Output > Live Stream.

Sources

- [ATEM Mini Pro Encoder Setup for RTMP Streaming](#)
- [Encoder Settings for Streaming \(via RTMP\)](#)
- [Blackmagic Design — ATEM Mini Pro](#)