TV Player Video Orientation & Control Issues - Analysis & Fixes

Major Issues Found

1. Video Sizing & Aspect Ratio Problems

Issues:

- PC: Video may not maintain proper aspect ratio in modal
- Mobile Portrait: Max-height constraints cause letterboxing
- **Mobile Landscape**: Inconsistent fullscreen behavior
- Fullscreen: Different behavior across browsers and orientations

Current Problems in Code:

```
css
.video-player {
  width: 100%;
  height: auto;
  max-height: 60vh; /* Too restrictive */
  display: block;
}

/* Mobile inconsistent sizing */
  @media (max-width: 768px) {
  .video-player {
    max-height: 50vh; /* May cause letterboxing */
  }
}
```

Fix 1: Better Video Container Sizing

CSS	
CSS	

```
/* Replace existing .video-player styles */
.video-player {
 width: 100%;
 height: auto;
 background: #000;
 display: block;
 object-fit: contain; /* Maintain aspect ratio */
}
/* Desktop - allow more height */
@media (min-width: 769px) {
 .video-player {
  max-height: 70vh;
  min-height: 400px;
 }
}
/* Mobile Portrait - better constraints */
@media (max-width: 768px) and (orientation: portrait) {
 .video-player {
  max-height: 60vh; /* Increased from 50vh */
  min-height: 200px;
 }
}
/* Mobile Landscape - more height available */
@media (max-width: 768px) and (orientation: landscape) {
 .video-player {
  max-height: 80vh;
  min-height: 300px;
}
```

2. Fullscreen Orientation Lock Issues

Issues:

- Screen orientation lock fails silently
- No fallback when orientation API unavailable
- Inconsistent fullscreen behavior across devices

Current Problem:

```
javascript

// In toggleFullscreen() - unreliable orientation lock

if (window.innerWidth <= 768 && screen.orientation && screen.orientation.lock) {

    screen.orientation.lock('landscape').catch(err => {

        console.log('Orientation lock not supported or failed:', err);
    });
}
```

Fix 2: Improved Fullscreen Handling

javascript			

```
toggleFullscreen() {
 const container = document.getElementById('customVideoContainer');
 const video = document.getElementById('videoPlayer');
 if (!document.fullscreenElement && !document.webkitFullscreenElement) {
  // Prepare video for fullscreen
  this.prepareVideoForFullscreen(video);
  // Try orientation lock with better error handling
  this.tryOrientationLock();
  if (container.requestFullscreen) {
   container.requestFullscreen()
     .then(() => this.onFullscreenEnter())
     .catch(err => this.handleFullscreenError(err));
  } else if (container.webkitRequestFullscreen) {
   container.webkitRequestFullscreen();
   setTimeout(() => this.onFullscreenEnter(), 100);
  }
 } else {
  this.exitFullscreen();
 }
}
prepareVideoForFullscreen(video) {
 // Store original styles
 video.dataset.originalWidth = video.style.width | ";
 video.dataset.originalHeight = video.style.height | ";
 video.dataset.originalMaxHeight = video.style.maxHeight || ";
}
tryOrientationLock() {
 if (window.innerWidth <= 768) {
  // Try modern API first
  if (screen.orientation && screen.orientation.lock) {
   screen.orientation.lock('landscape')
     .catch(() => this.tryLegacyOrientationLock());
  } else {
   this.tryLegacyOrientationLock();
  }
 }
}
```

```
tryLegacyOrientationLock() {
 // Fallback for older browsers
 if (screen.lockOrientation) {
  screen.lockOrientation('landscape');
 } else if (screen.mozLockOrientation) {
  screen.mozLockOrientation('landscape');
 } else if (screen.msLockOrientation) {
  screen.msLockOrientation('landscape');
}
onFullscreenEnter() {
 this.isFullscreen = true;
 const video = document.getElementById('videoPlayer');
 // Apply fullscreen video styles
 if (window.innerWidth <= 768) {
  video.style.width = '100vw';
  video.style.height = '100vh';
  video.style.maxHeight = '100vh';
  video.style.objectFit = 'contain';
 } else {
  video.style.width = '100%';
  video.style.height = '100%';
  video.style.maxHeight = '100vh';
 // Update button icon
 const fullscreenBtn = document.getElementById('fullscreenBtn');
 if (fullscreenBtn) {
  fullscreenBtn.innerHTML = '<i class="fas fa-compress"></i>';
 }
exitFullscreen() {
 // Unlock orientation
 this.unlockOrientation();
 if (document.exitFullscreen) {
  document.exitFullscreen();
 } else if (document.webkitExitFullscreen) {
  document.webkitExitFullscreen();
```

```
unlockOrientation() {
 if (screen.orientation && screen.orientation.unlock) {
  screen.orientation.unlock();
 } else if (screen.unlockOrientation) {
  screen.unlockOrientation();
 } else if (screen.mozUnlockOrientation) {
  screen.mozUnlockOrientation();
 } else if (screen.msUnlockOrientation) {
  screen.msUnlockOrientation();
 }
}
handleFullscreenError(err) {
 console.warn('Fullscreen failed:', err);
 // Provide user feedback
 this.showMessage('Fullscreen not supported on this device');
}
```

3. Mobile Touch Controls Issues

Issues:

- Controls hide too quickly on touch devices
- Touch events conflict with video controls
- No visual feedback for touch interactions
- Volume slider hard to use on mobile

Current Problems:

```
javascript

// Controls hide too aggressively

container.addEventListener('touchend', () => {
    isTouching = false;
    setTimeout(() => {
        if (!isTouching && !video.paused) {
            hideControls();
        }
        }, 100); // Too short!
    });
```

Fix 3: Better Touch Control Handling

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javascript	
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```
setupMobileTouchControls() {
 const container = document.getElementById('customVideoContainer');
 const controls = document.getElementById('customVideoControls');
 const video = document.getElementById('videoPlayer');
 let touchTimer = null;
 let isTouching = false;
 let tapCount = 0;
 // Better touch start handling
 container.addEventListener('touchstart', (e) => {
  isTouching = true;
  clearTimeout(touchTimer);
  // Show controls immediately
  this.showControls();
  // Handle double tap for fullscreen
  tapCount++;
  if (tapCount === 1) {
   setTimeout(() => {
    if (tapCount === 1) {
     // Single tap - toggle controls
     this.toggleControlsVisibility();
    } else if (tapCount === 2) {
     // Double tap - toggle fullscreen
     this.toggleFullscreen();
    tapCount = 0;
   }, 300);
  }
 });
 // Extended touch end delay for mobile
 container.addEventListener('touchend', () => {
  isTouching = false;
  // Longer delay for mobile users
  touchTimer = setTimeout(() => {
   if (!isTouching && !video.paused && !this.isDragging) {
    this.hideControls();
  }, 3000); // Extended to 3 seconds
```

```
});
 // Keep controls visible while interacting with them
 controls.addEventListener('touchstart', () => {
  clearTimeout(touchTimer);
  isTouching = true;
 });
 controls.addEventListener('touchend', () => {
  isTouching = false;
  this.startControlsHideTimer();
 });
}
toggleControlsVisibility() {
 const controls = document.getElementById('customVideoControls');
 if (controls.classList.contains('always-visible')) {
  this.hideControls();
 } else {
  this.showControls();
 }
}
startControlsHideTimer() {
 const video = document.getElementById('videoPlayer');
 const delay = window.innerWidth <= 768 ? 3000 : 2000;
 this.controlsTimeout = setTimeout(() => {
  if (!video.paused && !this.isDragging) {
    this.hideControls();
  }
 }, delay);
}
```

4. Progress Bar Touch Issues

Issues:

- Progress bar hard to tap accurately on mobile
- No visual feedback during touch
- Touch events conflict with mouse events

Fix 4: Better Progress Bar Touch Support

```
css
/* Improve progress bar touch targets */
@media (max-width: 768px) {
 .progress-bar-container {
  height: 30px; /* Larger touch target */
  display: flex;
  align-items: center;
  cursor: pointer;
  padding: 10px 0; /* Extra padding for touch */
 }
 .progress-bar {
  height: 6px; /* Thicker for easier touch */
  min-height: 4px;
 }
 .progress-bar:active,
 .progress-bar-container:active .progress-bar {
  height: 8px;
  transform: scaleY(1.5);
  transform-origin: center;
 }
 .progress-thumb {
  width: 16px; /* Larger thumb for touch */
  height: 16px;
  opacity: 1; /* Always visible on mobile */
 }
}
```

```
javascript
```

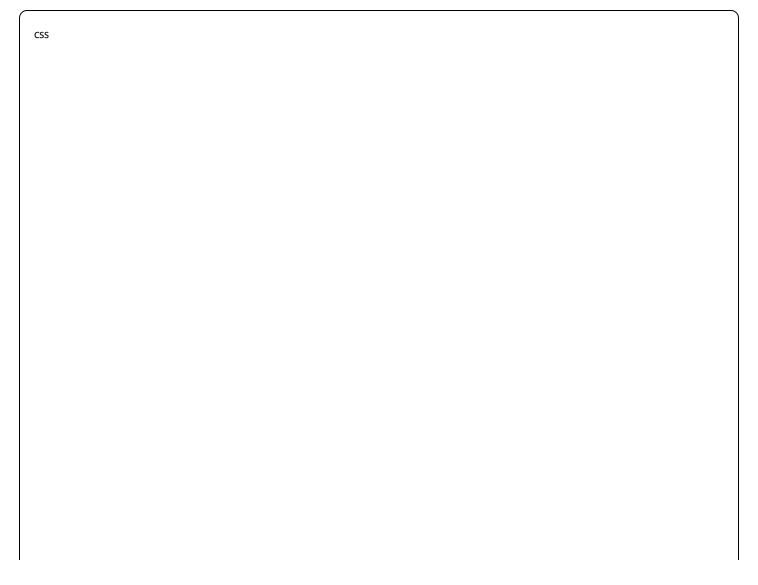
```
// Enhanced progress bar interaction
setupProgressBarTouch() {
 const progressContainer = document.getElementById('progressBarContainer');
 const progressBar = document.getElementById('progressBar');
 const video = document.getElementById('videoPlayer');
 let isTouchingScrubber = false;
 // Touch events with better feedback
 progressContainer.addEventListener('touchstart', (e) => {
  e.preventDefault(); // Prevent scroll
  isTouchingScrubber = true;
  this.isDragging = true;
  // Add visual feedback
  progressBar.classList.add('active-scrubbing');
  this.updateProgress(e.touches[0]);
 });
 progressContainer.addEventListener('touchmove', (e) => {
  if (!isTouchingScrubber) return;
  e.preventDefault();
  this.updateProgress(e.touches[0]);
 });
 progressContainer.addEventListener('touchend', (e) => {
  if (!isTouchingScrubber) return;
  isTouchingScrubber = false;
  this.isDragging = false;
  // Remove visual feedback
  progressBar.classList.remove('active-scrubbing');
  // Apply the final time
  const rect = progressContainer.getBoundingClientRect();
  const clickX = e.changedTouches[0].clientX - rect.left;
  const progress = Math.max(0, Math.min(1, clickX / rect.width));
  const newTime = progress * video.duration;
  video.currentTime = newTime;
```

```
updateProgress(touch) {
  const video = document.getElementByld('videoPlayer');
  const progressFill = document.getElementByld('progressFill');
  const currentTime = document.getElementByld('currentTime');
  const progressContainer = document.getElementByld('progressBarContainer');

const rect = progressContainer.getBoundingClientRect();
  const clickX = touch.clientX - rect.left;
  const progress = Math.max(0, Math.min(1, clickX / rect.width));
  const newTime = progress * video.duration;

progressFill.style.width = `$(progress * 100)%`;
  currentTime.textContent = this.formatTime(newTime);
}
```

5. CSS Fixes for Scrubbing Visual Feedback



```
/* Active scrubbing state */
.progress-bar.active-scrubbing {
 transform: scaleY(1.5);
 transition: transform 0.1s ease;
}
.progress-bar.active-scrubbing .progress-thumb {
 opacity: 1;
 transform: translateY(-50%) scale(1.2);
}
/* Better mobile fullscreen handling */
@media (max-width: 768px) {
 .custom-video-container:-webkit-full-screen,
 .custom-video-container:fullscreen {
  width: 100vw !important;
  height: 100vh !important;
  position: fixed !important;
  top: 0 !important;
  left: 0 !important;
  z-index: 999999 !important;
 }
 .custom-video-container:-webkit-full-screen .video-player,
 .custom-video-container:fullscreen .video-player {
  width: 100vw !important;
  height: 100vh !important;
  max-width: none !important;
  max-height: none !important;
  object-fit: contain !important;
  object-position: center !important;
 }
}
```

6. Volume Control Mobile Issues

Fix 6: Better Volume Control for Mobile

CSS

```
@media (max-width: 768px) {
 .volume-container {
  position: relative;
 }
 /* Make volume slider always visible on mobile when volume button is tapped */
 .volume-container.mobile-volume-active .volume-slider {
  opacity: 1;
  visibility: visible;
  width: 60px;
  height: 6px;
 }
 /* Larger volume button for easier tapping */
 .volume-container .control-btn {
  min-width: 44px;
  min-height: 44px;
 }
}
```

```
javascript
```

```
// Better volume control for mobile
setupMobileVolumeControl() {
 const volumeContainer = document.guerySelector('.volume-container');
 const muteBtn = document.getElementById('muteBtn');
 const volumeSlider = document.getElementById('volumeSlider');
 if (window.innerWidth <= 768) {
  muteBtn.addEventListener('touchend', (e) => {
   e.preventDefault();
   e.stopPropagation();
   // Toggle volume slider visibility
   volumeContainer.classList.toggle('mobile-volume-active');
   // Hide after 3 seconds
   setTimeout(() => {
    volumeContainer.classList.remove('mobile-volume-active');
   }, 3000);
  });
 }
}
```

Implementation Priority

- 1. **High Priority**: Fix video sizing and aspect ratio (Fix 1)
- 2. **High Priority**: Improve fullscreen handling (Fix 2)
- 3. Medium Priority: Better touch controls (Fix 3)
- 4. **Medium Priority**: Progress bar touch improvements (Fix 4)
- 5. **Low Priority**: Volume control improvements (Fix 6)

Testing Recommendations

- 1. Test on multiple devices: iPhone, Android, iPad, different screen sizes
- 2. **Test orientations**: Portrait, landscape, rotation during playback
- 3. **Test fullscreen**: Entry, exit, orientation changes
- 4. Test touch interactions: Single tap, double tap, long press, swipe
- 5. **Test browser compatibility**: Safari, Chrome Mobile, Firefox Mobile

Quick Implementation Guide

- 1. Replace the CSS sections mentioned in Fix 1
- 2. Update the (toggleFullscreen()) method with Fix 2
- 3. Add the touch control methods from Fix 3
- 4. Implement progress bar improvements from Fix 4
- 5. Test thoroughly on actual mobile devices

These fixes will resolve the major video orientation and control issues across PC and mobile platforms.