

入门示例

此处提供一个连麦模块的基础使用示例，该示例包含以下内容

1. 连接聊天室，初始化连麦功能，支持本地设备调试
2. 支持观众申请连麦，取消申请连麦操作，讲师邀请观众上麦功能
3. 支持不使用内置 UI，自行实现结束连麦、切换摄像头开关、切换麦克风开关、切换镜像功能
4. 支持响应后台配置处理视频连麦、语音连麦逻辑
5. 部分和播放器模块配合使用的逻辑
6. 支持自定义邀请上麦 UI（acceptInvite / refuseInvite / getInviteCountDown）
7. 支持本地预览摄像头画面（startPreview / stopPreview / getPreviewVolume）
8. 支持预设本地音视频开关（getLocalMuteStatus / setLocalMuteStatus）

更多内容请结合文档参考 [查看页 SDK 及其配套的开源项目](#)

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8" />
  <meta name="viewport" content="width=device-width, initial-scale=1.0" />
  <title>ConnectMic</title>
  <style>
    html,
    body {
      padding: 0;
      margin: 0;
    }

    .demo-connect-mic-container {
      padding: 12px 16px;
    }

    .demo-connect-mic-base-info {
      margin-bottom: 16px;
    }

    .demo-connect-mic-control {
      margin-bottom: 16px;
    }

    .demo-connect-mic-list {
      display: flex;
    }

    .demo-connect-mic-list-item {
      width: 200px;
      border: 1px solid #ccc;
      border-radius: 8px;
      margin-right: 12px;
    }

    .demo-connect-mic-list-item__content {
      height: 120px;
    }

    .demo-connect-mic-list-item__content video {
      transform: none !important;
    }

    .demo-connect-mic-list-item__content--no-mirror video {
      transform: scaleX(-1) !important;
    }

    .demo-connect-mic-list-item__info {
      display: flex;
      flex-direction: column;
      padding: 8px;
      line-height: 1.5;
      word-wrap: break-word;
    }
```

```

.demo-player-container {
  width: 640px;
  height: 360px;
  padding: 16px;
  margin-bottom: 80px;
}

#player {
  width: 100%;
  height: 100%;
  position: relative;
}

.demo-player-control {
  display: flex;
  margin-top: 24px;
  gap: 12px;
}
</style>
</head>
<body>
<div class="demo-player-container">
  <div id="player"></div>
  <div class="demo-player-control">
    <button class="demo-player-control__play-btn">播放</button>
    <button class="demo-player-control__pause-btn">暂停</button>
  </div>
</div>
<!--
1、一般需要讲师端开启连麦功能，观众端才能申请连麦，或者被讲师邀请上麦
2、连麦功能需要需要连接保利威聊天室，在直播开始时才能正常使用
-->
<div class="demo-connect-mic-container">
  <div class="demo-connect-mic-base-info">
    <div>远程连麦状态: <span id="open-mic-status"></span></div>
    <div>当前用户连麦状态: <span id="connect-mic-status"></span></div>
    <div>邀请倒计时: <span id="invite-count-down"></span></div>
    <div>本地音视频开关: <span id="local-mute-status"></span></div>
  </div>

  <div class="demo-connect-mic-control">
    <button class="demo-connect-mic-control__open-setting-btn">
      设备检测
    </button>
    <button class="demo-connect-mic-control__apply-btn">申请连麦</button>
    <button class="demo-connect-mic-control__cancel-apply-btn">
      取消申请
    </button>
    <button class="demo-connect-mic-control__hang-up-btn">结束连麦</button>
    <button class="demo-connect-mic-control__video-toggle">
      切换摄像头开关
    </button>
    <button class="demo-connect-mic-control__audio-toggle">
      切换麦克风开关
    </button>
    <button class="demo-connect-mic-control__mirror-toggle">

```

```

        切换镜像
    </button>
    <button class="demo-connect-mic-control__accept-invite-btn">
        接受邀请上麦
    </button>
    <button class="demo-connect-mic-control__refuse-invite-btn">
        拒绝邀请上麦
    </button>
    <button class="demo-connect-mic-control__start-preview-btn">
        开启本地预览
    </button>
    <button class="demo-connect-mic-control__stop-preview-btn">
        停止本地预览
    </button>
    <button class="demo-connect-mic-control__toggle-local-mute-btn">
        切换本地音视频开关
    </button>
</div>

<div class="demo-connect-mic-list">
    <!-- <div class="demo-connect-mic-list-item"></div> -->
</div>

<div class="demo-connect-mic-preview" style="margin-top: 16px;">
    <div>本地预览: </div>
    <div id="preview-container" style="width: 200px; height: 150px; border: 1px solid #ccc; border-radius:
8px;"></div>
    <div>预览音量: <span id="preview-volume">0</span></div>
</div>
</div>

<!-- 此处使用在线JS链接演示，开发者可使用npm包形式安装 -->
<script src="https://websdk.videooc.net/live-watch-sdk/latest/lib/polyv-live-watch-sdk.umd.js"></script>
<script>
    const {
        createWatchCore,

        PolyvWatchCoreEvents,
        ChannelEvents,
        PlayerEvents,
        ChatEvents,
        ConnectMicEvents,

        LiveStatus,
        ConnectMicType,
        ConnectMicStatus,
    } = window.PolyvLiveWatchSDK;

    /** 全局变量 */
    var globalStore = {
        watchCore: null, // 观看页核心实例
        playerInited: false, // 播放器是否初始化完成
        playStatus: false, // 播放状态
        liveStatus: LiveStatus.End, // 直播流状态
        chatConnected: false, // 是否连接聊天室
        connectMicInited: false, // 是否初始化连麦功能
    };

```

```

    connectMicInfo: null, // 连麦配置信息
    networkInfo: null, // 连麦网络信息
    connectMicList: [], // 连麦列表
  };

  /**
   * 绑定播放器 UI 事件
   */
  function bindPlayerUIEvent(watchCore) {
    const $playBtn = document.querySelector(
      ".demo-player-control__play-btn"
    );
    const $pauseBtn = document.querySelector(
      ".demo-player-control__pause-btn"
    );

    $playBtn.addEventListener("click", () => {
      if (!globalStore.playerInited) return;

      watchCore.player.play();
    });

    $pauseBtn.addEventListener("click", () => {
      if (!globalStore.playerInited) return;

      watchCore.player.pause();
    });
  }

  /**
   * 检查是否支持连麦
   */
  function checkConnectMicEnabled() {
    if (globalStore.liveStatus !== LiveStatus.Live) {
      console.warn("请先发起直播!");
      return;
    }

    const enabled =
      globalStore.connectMicInited &&
      !!globalStore.connectMicInfo &&
      globalStore.connectMicInfo.supportConnectMic;

    if (!enabled) {
      console.warn(
        "当前频道配置或浏览器环境不支持连麦功能! 请检查配置和使用的浏览器版本!"
      );
    }

    return enabled;
  }

  function checkApplyConnectMicEnabled() {
    if (!checkConnectMicEnabled()) {
      return false;
    }
  }

```

```

    const { openMicStatus, inviteStatus } = globalStore.connectMicInfo;

    return openMicStatus || inviteStatus;
  }

  /**
   * 检查是否正在连麦
   */
  function checkIsConnectMicing() {
    if (!checkConnectMicEnabled()) {
      return false;
    }

    const status = globalStore.connectMicInfo.connectMicStatus;
    return [
      ConnectMicStatus.Publishing,
      ConnectMicStatus.Connected,
    ].includes(status);
  }

  /**
   * 获取本地连麦流对象
   */
  function getLocalMicItem() {
    const micList = globalStore.connectMicList;
    const localIndex = micList.findIndex((micItem) => micItem.isLocal);
    return localIndex === -1 ? undefined : micList[localIndex];
  }

  /**
   * 生成连麦区域元素 id
   */
  const generateMicId = (micItem) =>
    micItem.isSelf ? "connect-mic-self" : "connect-mic-" + micItem.streamId;

  /**
   * 生成连麦信息区域元素 id
   */
  const generateMicInfoId = (micItem) =>
    micItem.isSelf
      ? "connect-mic-info-self"
      : "connect-mic-info" + micItem.streamId;

  /**
   * 渲染连麦信息-摄像头状态
   */
  function renderMicInfoVideoText({ isVideoMuted, micItem }) {
    const $micItemInfo = document.getElementById(
      generateMicInfoId(micItem)
    );
    const $micInfoVideoText = $micItemInfo.querySelector(
      ".demo-connect-mic-list-item__info__video"
    );

    $micInfoVideoText.innerHTML = `摄像头状态: ${

```

```

        isVideoMuted ? "关闭" : "开启"
    }`;
}

/**
 * 渲染连麦信息-麦克风状态
 */
function renderMicInfoAudioText({ isAudioMuted, micItem }) {
    const $micItemInfo = document.getElementById(
        generateMicInfoId(micItem)
    );
    const $micInfoAudioText = $micItemInfo.querySelector(
        ".demo-connect-mic-list-item__info__audio"
    );

    $micInfoAudioText.innerHTML = `麦克风状态: ${
        isAudioMuted ? "关闭" : "开启"
    }`;
}

/**
 * 渲染连麦信息-镜像状态
 */
function renderMicInfoMirrorText({ mirrorEnabled, micItem }) {
    const $micItemInfo = document.getElementById(
        generateMicInfoId(micItem)
    );
    const $micInfoMirrorText = $micItemInfo?.querySelector(
        ".demo-connect-mic-list-item__info__mirror"
    );

    if ($micInfoMirrorText) {
        $micInfoMirrorText.innerHTML = `镜像状态: ${
            mirrorEnabled ? "开启" : "关闭"
        }`;
    }
}

// 更新镜像CSS类
const $micItem = document.getElementById(generateMicId(micItem));
if ($micItem && micItem.isLocal) {
    if (mirrorEnabled) {
        $micItem.classList.remove(
            "demo-connect-mic-list-item__content--no-mirror"
        );
    } else {
        $micItem.classList.add(
            "demo-connect-mic-list-item__content--no-mirror"
        );
    }
}

/**
 * 渲染连麦列表
 */
function renderConnectMicList() {

```

```

const connectMicList = globalStore.connectMicList;

const $connectMicList = document.querySelector(
  ".demo-connect-mic-list"
);

$connectMicList.innerHTML = connectMicList
  .map(
    (micItem) => `
    <div class="demo-connect-mic-list-item" >
      <div class="demo-connect-mic-list-item__content ${
        micItem.isLocal && !micItem.mirrorEnabled
          ? "demo-connect-mic-list-item__content--no-mirror"
          : ""
      }" id="${generateMicId(micItem)}"></div>
      <div class="demo-connect-mic-list-item__info" id="${generateMicInfoId(
        micItem
      )}">
        <span>用户流id: ${micItem.streamId}</span>
        <span>昵称: ${
          micItem.isSelf
            ? micItem.nickname + "(我)"
            : micItem.nickname
        }</span>
        <span class="demo-connect-mic-list-item__info__video">摄像头状态: ${
          micItem.isVideoMuted ? "关闭" : "开启"
        }</span>
        <span class="demo-connect-mic-list-item__info__audio">麦克风状态: ${
          micItem.isAudioMuted ? "关闭" : "开启"
        }</span>
        ${
          micItem.isLocal
            ? `<span class="demo-connect-mic-list-item__info__mirror">镜像状态: ${
              micItem.mirrorEnabled ? "开启" : "关闭"
            }</span>`
            : ""
          }
      </div>
    </div>
    `
  )
  .join("");

```

// 注意：这里延迟去推流和订阅流，因为有可能渲染的元素还没插入到 DOM 中，并且 connectMicList 会变化，所以这里延迟

一下

```

setTimeout(() => {
  connectMicList.forEach((micItem) => {
    const $micItem = document.getElementById(generateMicId(micItem));
    if (!$micItem) {
      console.warn("找不到对应的元素", micItem);
      return;
    }

    if (micItem.isLocal) {
      micItem.publishStream({
        element: $micItem,

```

```

        control: false, // 是否显示自带的控制按钮, 默认 false
    });
} else {
    micItem.subscribeStream({
        element: $micItem,
        control: false,
    });
}
});
}, 300);
}

/**
 * 绑定 UI 事件
 */
function bindUIEvent(watchCore) {
    bindPlayerUIEvent(watchCore);
    // 设备检测
    const $openSettingBtn = document.querySelector(
        ".demo-connect-mic-control__open-setting-btn"
    );
    $openSettingBtn.addEventListener("click", () => {
        if (!checkConnectMicEnabled()) return;

        watchCore.connectMic.openDeviceSetting();
    });

    // 申请连麦
    const $applyConnectMicBtn = document.querySelector(
        ".demo-connect-mic-control__apply-btn"
    );
    $applyConnectMicBtn.addEventListener("click", async () => {
        if (!checkConnectMicEnabled()) return;

        if (!checkApplyConnectMicEnabled()) {
            console.warn("请先等讲师发起连麦!");
            return;
        }

        if (checkIsConnectMicing()) {
            console.warn("当前已在连麦中, 请勿重复申请!");
            return;
        }

        const connectMicType = globalStore.connectMicInfo.connectMicType;

        console.warn(
            "正在申请连麦, 当前连麦类型为: ",
            connectMicType === ConnectMicType.Video ? "视频连麦" : "音频连麦"
        );

        const result = await watchCore.connectMic.applyConnectMic();
        if (
            !result.success &&
            result.failReason === ConnectMicError.GetDevicePermissionFail
        ) {

```

```

        alert("无法获取设备权限或无设备，请检查后重试! ");
        return;
    }
    if (result.success) {
        console.warn("申请连麦成功，请等待讲师同意上麦");
    } else {
        console.warn("申请连麦失败", result.failReason);
    }
});

// 取消申请连麦
const $applyCancelBtn = document.querySelector(
    ".demo-connect-mic-control__cancel-apply-btn"
);
$applyCancelBtn.addEventListener("click", () => {
    if (!checkConnectMicEnabled()) return;

    if (!checkApplyConnectMicEnabled()) {
        console.warn("请先等讲师发起连麦! ");
        return;
    }

    if (checkIsConnectMicing()) {
        console.warn("当前已在连麦中，无法取消申请，请结束连麦! ");
        return;
    }

    watchCore.connectMic.cancelApplyConnectMic();
    console.warn("取消申请连麦成功");
});

// 结束连麦
const $hangUpBtn = document.querySelector(
    ".demo-connect-mic-control__hang-up-btn"
);
$hangUpBtn.addEventListener("click", () => {
    if (!checkConnectMicEnabled()) return;

    if (!checkIsConnectMicing()) {
        console.warn("当前不在连麦中，无法结束连麦! ");
        return;
    }

    watchCore.connectMic.endConnectMic();
    console.warn("结束连麦成功");
});

// 切换摄像头开关
const $videoToggleBtn = document.querySelector(
    ".demo-connect-mic-control__video-toggle"
);
$videoToggleBtn.addEventListener("click", () => {
    if (!checkConnectMicEnabled()) return;

    const connectMicType = globalStore.connectMicInfo.connectMicType;
    if (connectMicType === ConnectMicType.Audio) {

```

```

        alert("当前为音频连麦，无法切换摄像头");
        return;
    }

    const localMicItem = getLocalMicItem();
    if (!localMicItem) {
        alert("当前未连麦，无法切换摄像头");
        return;
    }

    if (localMicItem.isVideoMuted) {
        console.log("开启摄像头");
        watchCore.connectMic.enabledVideo();
    } else {
        console.log("关闭摄像头");
        watchCore.connectMic.disabledVideo();
    }
});

// 切换麦克风开关
const $audioToggleBtn = document.querySelector(
    ".demo-connect-mic-control__audio-toggle"
);
$audioToggleBtn.addEventListener("click", () => {
    if (!checkConnectMicEnabled()) return;

    const localMicItem = getLocalMicItem();
    if (!localMicItem) {
        alert("当前未连麦，无法切换麦克风");
        return;
    }

    if (localMicItem.isAudioMuted) {
        console.log("开启麦克风");
        watchCore.connectMic.enabledAudio();
    } else {
        console.log("关闭麦克风");
        watchCore.connectMic.disabledAudio();
    }
});

// 切换镜像
const $mirrorToggleBtn = document.querySelector(
    ".demo-connect-mic-control__mirror-toggle"
);
$mirrorToggleBtn.addEventListener("click", () => {
    if (!checkConnectMicEnabled()) return;

    const connectMicType = globalStore.connectMicInfo.connectMicType;
    if (connectMicType === ConnectMicType.Audio) {
        alert("当前为音频连麦，无法切换镜像");
        return;
    }

    const localMicItem = getLocalMicItem();
    if (!localMicItem) {

```

```

    alert("当前未连麦，无法切换镜像");
    return;
}

const mirrorEnabled = watchCore.connectMic.getMirrorEnabled();
watchCore.connectMic.toggleMirror();
const newMirrorEnabled = !mirrorEnabled;
console.log(
  mirrorEnabled ? "关闭镜像" : "开启镜像",
  "当前镜像状态: ",
  newMirrorEnabled
);

// 更新镜像状态显示
if (localMicItem) {
  renderMicInfoMirrorText({
    mirrorEnabled: newMirrorEnabled,
    micItem: localMicItem,
  });
}
});

// 接受邀请上麦
const $acceptInviteBtn = document.querySelector(
  ".demo-connect-mic-control__accept-invite-btn"
);
$acceptInviteBtn.addEventListener("click", () => {
  if (!checkConnectMicEnabled()) return;
  watchCore.connectMic.acceptInvite();
  console.log("已接受邀请上麦");
});

// 拒绝邀请上麦
const $refuseInviteBtn = document.querySelector(
  ".demo-connect-mic-control__refuse-invite-btn"
);
$refuseInviteBtn.addEventListener("click", () => {
  if (!checkConnectMicEnabled()) return;
  watchCore.connectMic.refuseInvite();
  console.log("已拒绝邀请上麦");
});

// 开启本地预览
const $startPreviewBtn = document.querySelector(
  ".demo-connect-mic-control__start-preview-btn"
);
$startPreviewBtn.addEventListener("click", async () => {
  if (!checkConnectMicEnabled()) return;
  const previewEl = document.getElementById("preview-container");
  try {
    await watchCore.connectMic.startPreview({
      videoEl: previewEl,
      video: true,
      audio: true,
    });
  } catch {
    console.log("本地预览已开启");
  }
});

```

```

    } catch (e) {
      console.error("开启本地预览失败", e);
    }
  });

  // 停止本地预览
  const $stopPreviewBtn = document.querySelector(
    ".demo-connect-mic-control__stop-preview-btn"
  );
  $stopPreviewBtn.addEventListener("click", () => {
    if (!checkConnectMicEnabled()) return;
    watchCore.connectMic.stopPreview();
    console.log("本地预览已停止");
  });

  // 切换本地音视频开关
  const $toggleLocalMuteBtn = document.querySelector(
    ".demo-connect-mic-control__toggle-local-mute-btn"
  );
  $toggleLocalMuteBtn.addEventListener("click", () => {
    if (!checkConnectMicEnabled()) return;
    const current = watchCore.connectMic.getLocalMuteStatus();
    watchCore.connectMic.setLocalMuteStatus({
      video: !current.video,
      audio: !current.audio,
    });
    console.log("切换本地音视频开关");
  });
}

/**
 * 绑定连麦模块相关事件
 */
function bindConnectMicEvent(watchCore) {
  // 连麦模块-监听连麦信息改变
  watchCore.connectMic.eventEmitter.on(
    ConnectMicEvents.ConnectMicInfoChange,
    () => {
      globalStore.connectMicInfo =
        watchCore.connectMic.getConnectMicInfo();

      document.getElementById("connect-mic-status").innerText =
        globalStore.connectMicInfo.connectMicStatus;
      document.getElementById("open-mic-status").innerText = globalStore
        .connectMicInfo.openMicStatus
        ? "开启"
        : "关闭";

      // 更新镜像状态显示
      const localMicItem = getLocalMicItem();
      if (localMicItem) {
        renderMicInfoMirrorText({
          mirrorEnabled: globalStore.connectMicInfo.mirrorEnabled,
          micItem: localMicItem,
        });
      }
    }
  )
}

```

```

    }
  );

  // 连麦模块-监听网络信息改变
  watchCore.connectMic.eventEmitter.on(
    ConnectMicEvents.NetworkInfoChange,
    () => {
      globalStore.networkInfo = watchCore.connectMic.getNetworkInfo();
    }
  );

  // 连麦模块-监听设备采集失败
  watchCore.connectMic.eventEmitter.on(
    ConnectMicEvents.DeviceRecoverFail,
    () => {
      alert("自动采集失败，请检查设备正常连接后刷新页面重新进入");
    }
  );

  // 连麦模块-监听邀请上麦
  watchCore.connectMic.eventEmitter.on(
    ConnectMicEvents.InviteConnectMic,
    () => {
      console.warn("讲师邀请你上麦！");
      watchCore.connectMic.openInviting();
    }
  );

  // 连麦模块-监听邀请上麦倒计时
  watchCore.connectMic.eventEmitter.on(
    ConnectMicEvents.InviteCountDown,
    (data) => {
      document.getElementById("invite-count-down").innerText =
        `剩余 ${data.remain}s / 总 ${data.total}s`;
    }
  );

  // 连麦模块-监听本地音视频开关变更
  watchCore.connectMic.eventEmitter.on(
    ConnectMicEvents.LocalMuteStatusChange,
    (data) => {
      document.getElementById("local-mute-status").innerText =
        `摄像头: ${data.video ? "关闭" : "开启"}, 麦克风: ${data.audio ? "关闭" : "开启"}`;
    }
  );

  // 连麦模块-连麦列表修改
  watchCore.connectMic.eventEmitter.on(
    ConnectMicEvents.ConnectMicListChange,
    () => {
      globalStore.connectMicList =
        watchCore.connectMic.getConnectMicList();
      renderConnectMicList();
    }
  );

```

```

// 连麦模块-监听讲师挂断当前连麦者
watchCore.connectMic.eventEmitter.on(
  ConnectMicEvents.TeacherHangUp,
  () => {
    alert("讲师已挂断你的连麦");
  }
);

// 连麦模块-监听连麦人数到达上限
watchCore.connectMic.eventEmitter.on(
  ConnectMicEvents.ConnectMicOverLimit,
  () => {
    alert("连麦失败, 连麦人数已到达上限");
  }
);

// 连麦模块-监听本地流的摄像头状态变化
watchCore.connectMic.eventEmitter.on(
  ConnectMicEvents.LocalVideoMuteChange,
  ({ isVideoMuted }) => {
    renderMicInfoVideoText({
      isVideoMuted,
      micItem: getLocalMicItem(),
    });
  }
);

// 连麦模块-监听本地流的麦克风状态变化
watchCore.connectMic.eventEmitter.on(
  ConnectMicEvents.LocalAudioMuteChange,
  ({ isAudioMuted }) => {
    renderMicInfoAudioText({
      isAudioMuted,
      micItem: getLocalMicItem(),
    });
  }
);

// 连麦模块-监听远端流的摄像头状态变化
watchCore.connectMic.eventEmitter.on(
  ConnectMicEvents.RemoteVideoMuteChange,
  ({ micItem, isVideoMuted }) => {
    renderMicInfoVideoText({ isVideoMuted, micItem });
  }
);

// 连麦模块-监听远端流的麦克风状态变化
watchCore.connectMic.eventEmitter.on(
  ConnectMicEvents.RemoteAudioMuteChange,
  ({ micItem, isAudioMuted }) => {
    renderMicInfoAudioText({ isAudioMuted, micItem });
  }
);
}

/**

```

```

* 绑定 watch-sdk 事件
*/
function bindWatchSdkEvent(watchCore) {
  // 监听核心 - setup 钩子
  watchCore.eventEmitter.on(PolyvWatchCoreEvents.WatchCoreSetupid, () => {
    console.info("观看页核心实例安装完成");
  });

  // 监听核心 - 连接聊天室
  watchCore.eventEmitter.on(
    PolyvWatchCoreEvents.WatchCoreConnected,
    () => {
      console.info("观看页核心实例连接聊天室成功");
      globalStore.chatConnected = true;
    }
  );

  // 监听直播流变化
  watchCore.channel.eventEmitter.on(
    ChannelEvents.LiveStatusChange,
    ({ liveStatus }) => {
      if (globalStore.liveStatus === liveStatus) return;

      globalStore.liveStatus = liveStatus;
      console.warn("流状态变化", liveStatus);
      // 直播流变化时重新创建播放器
      if (globalStore.playerInited) {
        globalStore.playerInited = false;
        createPlayer(watchCore);
      }
    }
  );

  // 监听播放器-初始化事件
  watchCore.player.eventEmitter.on(PlayerEvents.PlayerInited, () => {
    const playerInfo = watchCore.player.getPlayerInfo();
    globalStore.playerInited = playerInfo.playerInited;

    console.warn("播放器初始化完成");
    console.log("当前是否使用无延迟播放器: ", playerInfo.isLowLatency);
  });

  // 监听播放器-播放信息变化
  watchCore.player.eventEmitter.on(
    PlayerEvents.PlayerInfoChange,
    ({ playerInfo }) => {
      globalStore.playStatus = playerInfo.playStatus;
    }
  );

  // 监听播放器-播放时间改变
  watchCore.player.eventEmitter.on(
    PlayerEvents.TimeUpdate,
    ({ currentTime, durationTime }) => {
      console.warn("播放器时间变化: ", { currentTime, durationTime });
    }
  );
}

```

```

    );

    // 监听播放器-播放事件
    watchCore.player.eventEmitter.on(PlayerEvents.PlayerPlaying, () => {
        console.warn("播放回调, 播放视频中");
    });

    // 监听播放器-暂停事件
    watchCore.player.eventEmitter.on(PlayerEvents.PlayerPause, () => {
        console.warn("暂停回调, 已暂停视频播放");
    });

    // 监听聊天室-超出直播间最大在线人数
    watchCore.chat.eventEmitter.on(ChatEvents.OverMaxOnlineCount, () => {
        alert("已超出直播间最大在线人数 ! ");
    });

    // 监听聊天室-点赞数回调
    watchCore.chat.eventEmitter.on(
        ChatEvents.ChatLikeCountChange,
        (data) => {
            console.log("实时点赞数: ", data.realtimeLikes);
        }
    );

    bindConnectMicEvent(watchCore);
}

/**
 * 绑定事件
 */
function bindEvent(watchCore) {
    bindUIEvent(watchCore);
    bindWatchSdkEvent(watchCore);
}

/**
 * 安装连麦功能
 */
async function setupConnectMic(watchCore) {
    const result = await watchCore.connectMic.setupConnectMic();

    if (result.success) {
        globalStore.connectMicInited = true;
        console.warn("正常初始化连麦功能");
    } else {
        console.log("连麦功能初始化失败", result.failReason);
    }
}

/**
 * 安装核心实例和授权
 */
async function setupWatchCore(watchCore) {
    await watchCore.setup();
}

```

```

    if (!watchCore.auth.isAuthorized()) {
      // 观众点击观看页入口或执行观看条件授权，如：无条件授权
      const result = await watchCore.auth.verifyNoneAuth();
      if (!result.success) {
        console.error("授权失败了!!", result.failReason);
        return;
      }

      // 当观众执行观看条件授权成功，需要重新安装 watchCore
      await watchCore.setup();
    }
  }

  /**
   * 创建播放器
   */
  async function createPlayer(watchCore) {
    // 获取回放选项，此次仅以单个回放为例
    function __getPlayerPlaybackOptions() {
      const liveStatus = watchCore.channel.getLiveStatus();

      if (liveStatus !== LiveStatus.Playback) return;

      const playbackTarget = watchCore.playback.getSinglePlaybackTarget();
      watchCore.playback.setCurrentPlaybackTarget(playbackTarget);

      return playbackTarget.playbackOptions;
    }

    // 具体文档参数见：
https://help.polyv.net/index.html#/live/miniprogram/live\_watch\_miniprogram\_sdk/articles/modules/player/player?id=classmethoddocus\_playermodule\_setupplayer
    await watchCore.player.setupPlayer({
      container: "#player",
      lowLatency: false, // 是否无延迟播放
      showController: false, // 是否显示播放器控制栏
      playbackOptions: __getPlayerPlaybackOptions(), // 回放参数
    });
  }

  /**
   * 入口函数
   */
  async function main() {
    // 创建核心，文档见：
https://help.polyv.net/index.html#/live/miniprogram/live\_watch\_miniprogram\_sdk/articles/core/sdk-core
    const watchCore = createWatchCore({
      channelId: "", // 请使用一个"公开观看"的频道
      userInfo: {
        // 用户信息
        userId: "polyv-123456",
        nick: "polyv-测试昵称",
        actor: "polyv-测试头衔",
      },
    });
  }

```

```
globalStore.watchCore = watchCore;

// 绑定相关事件
bindEvent(watchCore);

// 安装核心
await setupWatchCore(watchCore);

// 连接聊天室
await watchCore.connect();

// 创建播放器
await createPlayer(watchCore);

// 需要等聊天室连接完成后，再加载连麦功能
setupConnectMic(watchCore);
}

main();
</script>
</body>
</html>
```