# WAVE CENTRAL
### A DOMO BROADCAST COMPANY

# PICO-TXR
## Miniature Transmission. Big Impact.

**When productions demand more from less, the PicoTXR rises to the challenge. Designed for the most compact and creative applications—like FPV drones and body-worn perspectives—this ultra-miniature transmitter delivers full HD video, low latency, and reliable wireless performance in a footprint smaller than a matchbox. Whether you're chasing speed, action, or intimacy, the PicoTXR lets you capture it all—without compromise.**

The PicoTXR is a professional-grade COFDM video transmitter engineered for compact, mobile applications where traditional wireless systems simply won't fit. With a footprint of just 2.5 cm³ and a weight of 52 grams, it's purpose-built for integration into FPV drones, gimbals, or body-mounted camera rigs—delivering exceptional video quality in the smallest of spaces.

Capable of transmitting 1080p60 video with h.264 or HEVC encoding, the PicoTXR supports both standard and high dynamic range (HDR) workflows, including HLG2020. It operates at 50mW output power in the 2.0–2.7GHz band and supports DVB-T COFDM modulation across selectable bandwidths (8/7/6 MHz).

Designed for real-world production environments, the PicoTXR includes a UHF return channel for camera control and supports embedded SDI audio, analog line-level input, and MIC with bias. The device can be configured via USB or Bluetooth and integrates seamlessly with CyanView control protocols over UHF return.

Whether mounted on a drone for aerial coverage or worn by talent for immersive POV shots, the PicoTXR provides high-quality, low-latency wireless video transmission—delivering flexibility and performance in applications where size, weight, and power efficiency are critical.

## 〰️ KEY BENEFITS

- **Ultra-compact design** (55 x 38 x 17 mm) for body-worn and drone-mounted use

- **50mW COFDM output** for reliable, low-power transmission

- **Resolutions up to 1080p60**, with HDR capability

- **Low latency**

- **Integrated camera control** via UHF return path

- **Flexible audio options:** line-in, mic level, and SDI-embedded

- **Optional HDMI interface** and lightweight body-worn camera

# PICO-TXR | *KEY FEATURES*

## Connectors

| | |
|---|---|
| TX | MMCX |
| RX | MMCX |
| SDI | MMCX |
| USB | USB-C |
| CTRL | Molex 1mm PICO Lock 6 way |
| Expansion | 60 way expansion connector |

## RF

| | |
|---|---|
| Frequency | Available in ranges between 2.0-2.5GHz, 3.2-3.5GHz, and 5.1-6.0GHz |
| Power | 50mW (17dBM) |
| Modulation | 8/7/6MHz DVBT |
| Bitrate | 18Mb/s max |

## Video

| | |
|---|---|
| Input | HD-SDI (1.5 and 3G) optional HDMI |
| Encoding | HEVC 10bit / H.264 8bit (10 bit future option) |
| HDR Mode | HLG2020 8bit |
| Resolutions | 1080p30 / 50 / 60 / 59.94 |
| Latency | Standard 300-400mS, Low <120mS |

## Audio

| | |
|---|---|
| Input | Analogue Line Level, MIC Level, MiC+BIAS, SDI Embedded |
| Compression Type | MPEG Layer 1 / 2 and AAC |

## Control

| | |
|---|---|
| Interface | USB and BlueTooth |

## User Data

| | |
|---|---|
| Interface | RS422 |

## Physical

| | |
|---|---|
| Dimensions | 55 x 38 x 17mm inc. fan |
| Weight | 52g |
| Mounting | 3mm Mounting holes |

## Power

| | |
|---|---|
| USB-C | 5V |
| Power In | 5.2-9.1V or 5.2 – 16V Rev B (Mar 2025) |
| Consumption | <4.5W at 1080p60 |

## Return Channel

| | |
|---|---|
| Frequency | 450-480MHz or 902-928Mz |
| Protocol | CyanView Compatible |

## Order Codes

| | |
|---|---|
| PICOHEVC-TXR-200250 | Minature HEVC HD TX 50mW 2000-2500MHz inc. fan assembly |
| PiCOHEVC-TXR-320350 | Minature HEVC HD TX 50mW 3200-3500MHz inc. fan assembly |
| PICOHEVC-TXR-510600 | Minature HEVC HD TX 50mW 5100-6000MHz inc. fan assembly |
| PICOTXR-HDMI | Optional HDMI Interface |
| PICO-DTX-450480 | PICO Data Transmitter 450-480MHz |
| PICO-DTX-902928 | PICO Data Transmitter 902-928MHz |



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