# PICO DIGITAL™

verimatrix  HDTV  HDMI™  CONDOR

# VMX1-1

## High-Definition MPEG-2/4 QAM Set-Top Box With Verimatrix CAS

HDTV

## Description

Part of Pico Digital's all-digital CONDOR solution, the VMX1-1 HD QAM set-top box descrambles signals from the CONDOR headend while converting digital signals to analog for display on legacy TVs. The unit is equipped with a single tuner for the recording of one TV channel and features Verimatrix® CAS for content protection. Offering HDMI and composite outputs, the unit provides PVR/media player capabilities, Electronic Program Guide (EPG) support, and an intuitive high-definition interface for ease of use. The VMX1-1 can be deployed as a stand-alone solution for non-encrypted clear QAM applications.
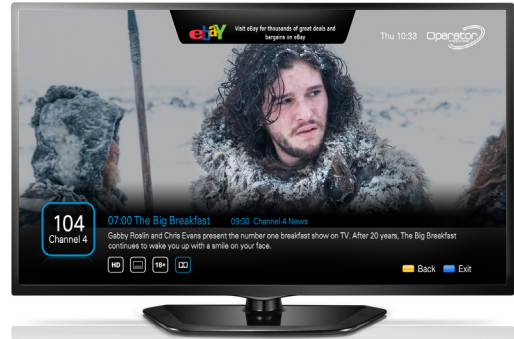
## Features

- Decodes high-definition and standard-definition signals
- One tuner for recording one TV channel
- Decodes MPEG-2 / AVC / H.264 / MPEG-4 video
- Decodes MPEG-1 Layer I/II
- Clear QAM and Verimatrix® CAS
- Supports 64 and 256 QAM inputs
- Elegant, intuitive, and simple high-definition user interface
- Auto scanning for QAM channels and programs
- Supports Electronic Program Guide (EPG)
- Multiple language support
- Firmware updates via cable TV network
- HDMI® and analog composite video/audio outputs
- PVR via two external USB sticks/drives
- Coax SPDIF
- Universal remote control, HDMI and composite cable included

## Subscriber Experience



The easy-to-use program guide shows what's on TV and allows users to easily bring up detailed information about programs of interest.



The InfoBar is similar to a traditional program Now and Next bar, which is displayed on channel change or when the user requests.

# Specification

## Tuner

| | |
|---|---|
| Tuner | Single tuner |
| QAM Modes | ITU-T J.83, Annex B |
| Constellation | 64/256 QAM |
| Frequency Range | 54 MHz to 862 MHz |
| Bandwidth | 6 MHz |
| Input Impedance | 75 Ω |
| Input Level Range | -15 dBmV to 30 dBmV |
| Signal Input | IEC 169-24, F-Type, Female |
| Symbol Rate | 3.6 MS/s to 6.952 MS/s |
| Loop Output | IEC 169-24, F-Type, Female |

## Video

| | |
|---|---|
| MPEG Decoder | MPEG-2/MPEG-4/H.264 |
| Video Resolution | 1920 x 1080i, 1280 x 720p, 720 x 576i |
| Aspect Ratio | 4:3, 16:9 |

## Audio

| | |
|---|---|
| MPEG Decoder | MPEG-1 Layer 1/2 |
| Output | Stereo/Right/Left/Mono |
| Sampling Frequency | 32 kHz, 44.1 kHz, 48 kHz |

## Security

| | |
|---|---|
| Conditional Access | Verimatrix® |

## Front Panel

| | |
|---|---|
| KEY | Up, Down, Left, Right, Ok, Menu, Exit, Standby |
| LED | Red: Power/Standby  Green: Signal |
| Digital | 4-digits, 7-segment display (Green) |
| CA Card | 1 slot |
| USB | USB 2.0 |

## Rear Panel

| | |
|---|---|
| RF Input | F-Type |
| RF loop through | F-Type |
| Composite Output | 3 RCA (CVBS, A. left, A. right) |
| Digital Audio | S/PDIF |
| Ethernet | RJ45 |
| HDMI | 19 pin Female |
| USB | USB 2.0 |
| DC Input | 12 V/1.5 A |

## Remote Control

| | |
|---|---|
| Batteries | 2 AAA type |

## Power Supply

| | |
|---|---|
| Power supply mode | External |
| Plug Type | American standard |
| AC Input (V/Hz) | AC 110 V to 240 V, 50 Hz/60 Hz |
| Output Voltage(V) | 12 V |

## General

| | |
|---|---|
| Dimensions | 8.70" (L) x 6.38" (D) x 1.75" (H) |
| Weight | 4 lbs. |
| Operating Temperature | 0 °C to 40 °C |
| Consumption | 18 Watts max. |
| Standby Consumption | 1 Watt |
| RoHs Compliant | |

# Ordering Information

**VMX1-1**   High-Definition MPEG-2/4 QAM Set-Top Box With Verimatrix® CAS
**IR-EXT**    3.5mm IR Extender