# XPVA-10D/100D

## Outdoor PTZ & IP Encoder with Video Analytics

**DVTEL's ioimage XPVA-10D/100D is an integrated, self-contained video analytics and encoding system comprised of a PTZ camera and stand-alone IP encoder that provides real time detection and autonomous tracking.**

The XPVA-10D/100D assemblies include the high-performance CP-2202-361P/N PTZ outdoor dome camera integrated with either a stand-alone XTRK-10D or XTRK-100D encoder.
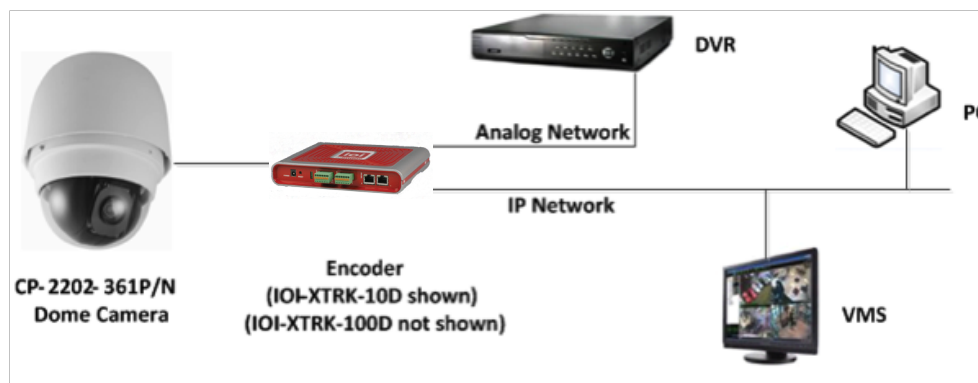
PAL and NTSC systems are available:
- XPVA-10D-P (PAL)
- XPVA-10D-N (NTSC)
- XPVA-100D-P (PAL)
- XPVA-100D-N (NTSC)

Operators can define rules, perimeter lines, sterile zones and other parameters for intrusion detection. The XPVA-10D/100D analyzes the captured video signal, generates alarms, and notifies operators of the presence of people, vehicles or objects. The system can also detect events in multiple preset zones.

The XPVA-10D/100D can be slaved to a stationary camera which will communicate and hand off a detected moving object to the XPVA for it to track, center, and zoom in on a target without user intervention.

As part of the ioimage intelligent video cameras series, the XPVA-10D/100D features analog and IP streaming video outputs, which enables connectivity to legacy analog DVRs or IP-based network video management systems. The camera can be configured and set up in a few minutes via a standard web browser.



CP-2202- 361P/N Dome Camera
Encoder (IOI-XTRK-10D shown) (IOI-XTRK-100D not shown)

## FEATURES

- Connects to IP and analog networks
- User-friendly - fast setup and easy operation
- 36x optical zoom
- 360° continuous rotation
- MPEG 4 SP and MJPEG compression
- Real-time, DSP-based video analytics
- Low false alarm rate
- Intrusion detection:
  - Region entrance
  - Tripwire crossover
  - Fence trespassing
- Automatic actions triggered upon detection
- Precise and accurate PTZ performance
- Autonomous PTZ tracking
- PTZ hand-off from fixed camera
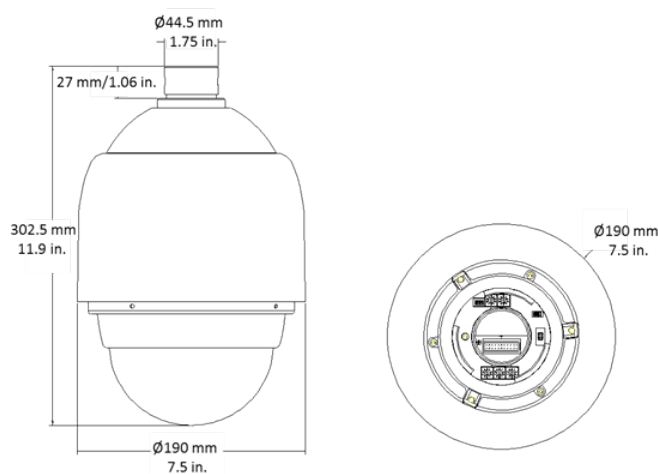- Built-in camera heater
- Built-in web server

*Now you can.*

VIDEO INNOVATION TO SECURE YOUR BUSINESS

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## XPVA-10D/100D
## CP-2202-361P/N Camera Specifications

| Camera | |
|---|---|
| Camera Type | Pan / Tilt / Zoom |
| Image Sensor | 1/4" Sony CCD |
| Horizontal Resolution | 650 TVL (PAL and NTSC) |
| Effective Pixels | 570k (PAL) / 480k (NTSC) |
| Optical / Digital Zoom | 36xOptical Zoom / 1x - 12x Variable Digital Zoom |
| Lens Type | F/1.6 to F/3.8 |
| Focal Length | 3.4 mm - 122.4 mm |
| Focus Mode | Auto / Manual |
| Angle of View (Horizontal) | 1.7° to 55° (Tele-end to Wide-end) |
| Minimum Illumination | 0.1 Lux (color) / 0.01 (B/W) |
| Recommended Illumination | 100 to 100, 000 Lux |
| Signal-to-Noise Ratio | >50 dB (AGC Off) |
| Analog Video Ouput | 1.0 V p-p, 75 Ω, BNC |
| White Balance | Auto, ATW, Indoor, Outdoor, Manual |
| Iris Control | Auto / Manual |
| Wide Dynamic Range | On / Off |
| 2D / 3D Noise Reduction | On / Off |
| IR Cut Filter (Day / Night) | On / Off |
| Automatic Electronic Shutter | 1/1 ~ 1/10,000 Second |
| Automatic Gain Control (AGC) | Auto / Manual |
| Backlight Compensation | On / Off |
| Image Freeze | On / Off |
| **PTZ Operation** | |
| Pan Travel | 360° continuous |
| Tilt Travel | 10° ~ 190° |
| Manual Speed | 0.5° ~ 90° / Second |
| Presets | 256 Without Analytics / Up to 32 With Analytics (Depending on Settings) |
| Preset Speed | 5° ~ 400° / Second |
| Preset Accuracy | 0.225° |
| Proportional Pan & Tilt | On / Off (Pan & Tilt Speed Proportional to Zoom Ratio) |
| **Analog Video Output** | |

| | |
|---|---|
| TV Standard | PAL or NTSC |
| Analtics Overlay | Included |
| **Power Source** | |
| Voltage | 24 VAC ±10% |
| Power Consumption | 20W Without Heater / 50W With Heater |
| **Mechanical** | |
| Housing Dimensions | 190 mm x 302.5 mm / 7.5" x 11.9" with Sunshield |
| Mounting | Wall / Pole / Corner Mount |
| Enclosure | Outdoor Cover with Sunshield Included |
| Ingress Protection | IP66 |
| Weight | 2.6 kg / 5.7 lbs. |
| Control Interface | RS-485 |
| **Environmental Specifications** | |
| Operating Temperature | -40° to 50°C/-40° to 122°F |
| Operating Humidity | Less Than 80% Relative Humidity |
| **Miscellaneous** | |
| On-Screen Display Languages | English / German / French / Italian / Simplified Chinese / Traditional Chinese / Russian / Korean |
| Regulatory Appovals | UL60950-1, CE, cTUVus, FCC Part 15, Subpart B, Class B; CE Class A; EN55022; EN55024; C-TICK, RoHS |

**Camera Dimensions**



Ø44.5 mm
1.75 in.

27 mm/1.06 in.

302.5 mm
11.9 in.

Ø190 mm
7.5 in.

Ø190 mm
7.5 in.

# ioimage
## by dvtel

# XPVA-10D/100D

## Outdoor PTZ & IP Encoder
## with Video Analytics

## XTRK-10D/100D Encoder Specifications

| Channels | XTRK-10D | XTRK-100D |
|---|---|---|
| Number of Intelligent Video Analysis Channels | 1 | |
| **Analog Video Inputs** | | |
| TV Standard | Composite 1Vp-p (NTSC or PAL) | |
| Physical Connector | 1 x BNC 75Ω | |
| **Analog Video Ouputs** | | |
| TV Standard | Composite 1Vp-p (NTSC or PAL) | |
| Physical Connector | 1 x BNC 75Ω | |
| **Digital Video Ouput** | | |
| IP Video Streaming | MPEG 4 SP & MJPEG (2 separate, independent & configurable video streams) | |
| Maximum Resolution per Channel | Stream 1: 4CIF  Stream 2: CIF | |
| Frame Rate | Up to Full Frame Rate | |
| Bit Rate | CBR (128 kpbs - 4 Mbps), VBR | |
| **Audio Input/ Output** | | |
| Physical Connector | 1 x 3.5mm plug | 2 x RCA plugs |
| **Network** | | |
| Ethernet (802.3/802.3u) | 1 x RJ-45 | 2 x RJ-45 |
| Services & Protocols | TCP/IP, UDP/IP, HTTP, SMTP, DHCP, DNS, SNTP | |
| Video Streaming | RTP / RTSP | |
| Alarms / Commands | TCP / IP, HTTP | |

| I/O Interface | XTRK-10D | XTRK-100D |
|---|---|---|
| Serial (May use 1 interface per input channel for PTZ camera control) | 1 x RS-232 and 1 x RS-485 | 2 x RS-232 and 1 RS-485 |
| In - Alarm Input | 1 Dry Contact | 4 Dry Contacts |
| Out - Relay Output | 1 Relay Output (Rated load 0.3A @ 125VAC, 1A @ 30VDC) | 2 Relay Outputs (Rated load 0.3A @ 125VAC, 1A @ 30VDC) |
| **Power Source** | | |
| Voltage | 12VDC, 24VAC, 50/60 Hz | 12 VDC |
| PoE Injector Output Voltage | 48VDC, 0.4A | N/A |
| Power Consumption | 7W | 8W |
| **Physical Dimensions** | | |
| Dimensions | 75 x 55 x 118 mm  2-15/16 x 2-5/32 x 4-5/8 in. | 189 x 36 x 164 mm  7-7/16 x 1-13/32 x 6-7/16 in. |
| Mounting | Camera Housing Shelf-mount | Shelf-mount |
| **Environmental** | | |
| Operating Temperature | 0˚ to 50˚ C  32˚ to 122˚ F | |
| Operating Humidity | 5% to 95% (Non-condensing) | |
| **Certifications** | | |
| Regulatory Approvals | UL, CE, FCC 47 CFR part 14 subpart B, Class A, CE, Class A FCC, CE, UL, RoHS | |

## Ordering Information

| Part Number | Description |
|---|---|
| IOI-XPVA-10D-P | CP-2202-361P PTZ Camera (PAL) + IOI-XTRK-10D |
| IOI-XPVA-10D-N | CP-2202-361N PTZ Camera (NTSC) + IOI-XTRK-10D |
| IOI-XPVA-100D-P | CP-2202-361P PTZ Camera (PAL) + IOI-XTRK-100D |
| IOI-XPVA-100D-N | CP-2202-361N PTZ Camera (NTSC) + IOI-XTRK-100D |

## Mounting Accessories:

| Part Number | Description |
|---|---|
| CX-ARMX-1 | Standard Pendant Mount |
| CX-ARMX-0 | Compact Pendant Mount |
| CX-PIPE-0 | Straight Tube |
| CX-POLE-0 | Pole Thin Direct Mounting |
| CX-CRNR-0 | Corner Standard Mounting Plate |