

Predator II-GX™

Expandable, Dual-Head, Auto-Sensing Multiviewer

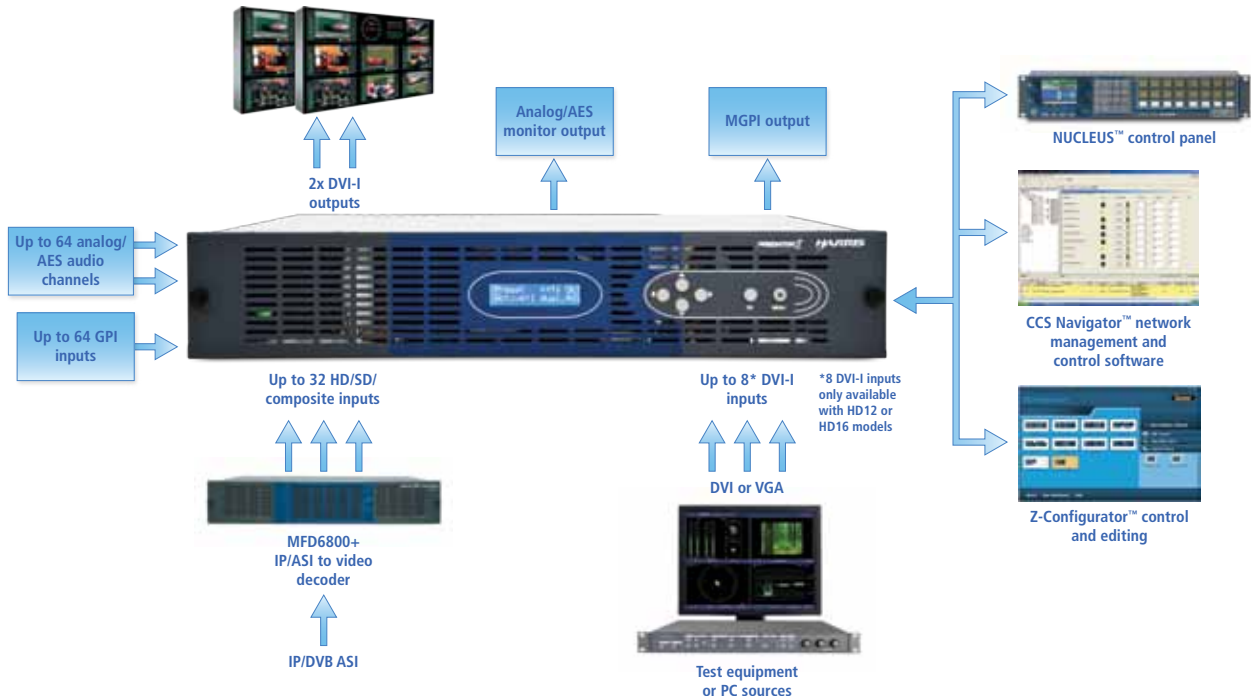


The Harris® Predator II-GX™ is more than just an HD multiviewer — it is a complete HD control and monitoring solution. It features auto-sensing support for multiple input standards and a modular architecture that allows smaller models to be expanded as demand grows. Combining pristine-quality images, easy-to-use editing software and an array of standard video and audio monitoring capabilities, the Predator II-GX also offers extensive ancillary data decoding capabilities. An optional computer graphics card allows for the addition of test, monitoring or control sources onscreen as part of the multi-image display.

FEATURES

- Available in either a 1 or 2RU frame
- Available in a range of models capable of auto-detecting 4 to 32 HD-SDI, SDI or composite video inputs
- Optional DVI-I input card to allow for computer source inputs (DVI or VGA)
- Two DVI-I outputs driving two independent displays at resolutions of up to 1920x1080 (up to 1920x1200 in single-head mode)
- Less than one frame processing delay from source to output; ideal for production applications
- Standard, easy-to-use Z-Configurator™ software included
- Integrated audio monitoring capabilities — onscreen ballistic meters and alarming features; embedded audio monitoring for up to 16 sources per video source (standard); and discrete analog and AES monitoring options. 2RU model includes a dedicated audio monitor output in simultaneous analog and AES
- Decoding of aspect ratio data (AFD or WSS) to display sources correctly onscreen; a range of screen aspect ratio and safe area markers help support monitoring of a multi-aspect ratio production
- Extensive alarm monitoring capabilities — ability to monitor numerous video and audio faults such as loss, freeze, black, metadata loss, audio silence or over-level; range of response options including onscreen notification, SNMP messaging and GPO trigger
- Support for dynamic UMD and tally indicator via a number of industry-standard protocols
- Direct communication with the Platinum™ router to display source and/or destination names for each input from Platinum
- Decoding and display of Closed Caption data (608/708) on any video source
- Multiple-clock display in different formats, with options to sync to LTC, NTP or PC time sources
- Up and down timer support with various trigger options
- D-VITC decoding for display of embedded time code on video
- Downloading and display of custom bitmaps; allows information display or branding capability

Predator II-GX I/O Overview



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PRODUCT DETAILS

The Predator II-GX comes with a variety of input options. The 1RU frame offers options from 4 to 12 video inputs, while the 2RU range offers models from 12 to 32 inputs. The unique Predator II-GX architecture allows the user with a smaller model to expand input capacity by simply adding processing cards to match any future increase in monitoring needs. This highly flexible multiviewer also offers options for monitoring PC sources onscreen alongside video sources — for example, placing playout server control onscreen alongside the playout sources to mix monitoring and control on the same displays.

APPLICATIONS

Designed to perfection for demanding applications with features and capabilities targeted to specific needs, Predator II-GX is a high-performance multiviewer solution for many areas.

Outside Production



With its compact size, rugged design and excellent production capabilities, Predator II-GX is a popular choice in outside broadcast vehicles. Each Predator II-GX multiviewer is capable of driving two independent displays, so a large number of displays can be driven from multiple Predator II-GX systems.

- Excellent picture quality
- Dual-head display
- Lowest frame delays
- Easy setup and reconfiguration
- Dynamic UMD and tally updates

Production Flycases

The compact design and easy set-up of Predator II-GX make it ideal for SNG and flycase applications.

- Auto-detection of up to 32 HD-SDI, SDI and composite video inputs via BNC (1080i, 720p, 625, 525, PAL, NTSC)
- Multiple-clock display in digital and analog format; NTP or LTC timecode input option available for synchronization to master clock
- Metadata displays in multiple up/down timers
- Support for dynamic UMD and tally indicators, as well as many industry-standard protocols

Production Studios

Whether for call letter stations or national broadcasters, the Predator II-GX ticks all the boxes for high-quality, high-performance multi-image viewing.

The excellent picture quality, low processing delay, and simple control and configuration options make Predator II-GX an enormously popular solution. Integrated UMD decoding and display, as well as numerous tally style options, make identifying and highlighting sources easily customizable all standard features. Embedded audio monitoring is also a standard feature, while analog or AES audio monitoring is available as an option.

Master Control Rooms



Predator II-GX provides all the necessary tools for channel launch and control. Boasting a large number of monitoring features such as video loss, video freeze, black picture, caption loss, audio loss, silence or over-level, auto-sensing support for composite/HD/SD inputs and optional graphics inputs, Predator II-GX should be considered in smaller to mid-end master control applications.

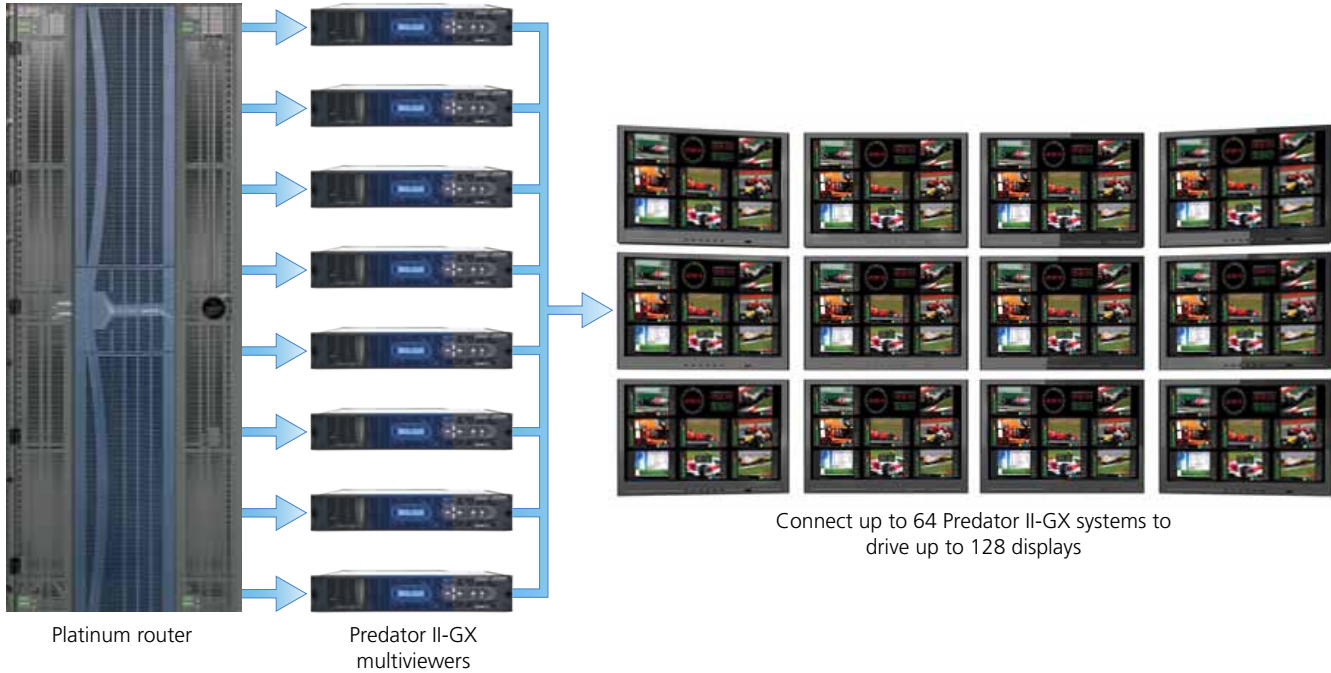
- Signal status
- Alarm monitoring
- Metadata displays
- Clocks and timers
- AFD/WSS status

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MULTIVIEWERS // HVIEW™ CP — COMPACT, MID-SIZED MULTIVIEWERS

Large-System Monitoring



Combining Predator II-GX with Platinum routers provides an excellent solution for medium- to large-scale monitoring systems. By using a single Platinum router, up to 512 sources can be fed to up to 64 Predator II-GX systems. Source and destination names can be extracted from the router for display with the video, while Z-Configurator software allows the user to dynamically switch router sources, offering the ability to pull any router source to any PIP.

Post Production

Predator II-GX supports a range of input standards, such as 1080p 23.98/24/25/29.97/30 Hz, and includes on video display of D-VITC information. These features, along with the excellent image quality and optional DVI inputs, make the Predator II-GX an excellent choice for post-production editing suites.

SPECIFICATIONS

Specifications are subject to change without notice.

Video Inputs

Input Type	HD-SDI (SMPTE 292M, 1.485 Gb/s) SDI (SMPTE 259M, 270 Mb/s) Composite (PAL/NTSC)
Number of Inputs	1RU: 4, 8, 12 2RU: 12, 16, 20, 24, 32
Connector	BNC
Input Resolution	Supports 1080i 50/59.94/60, 720p, 50/59.94/60, SDI 525, SDI 625, PAL, NTSC

Display Outputs

Operates as a single- or dual-output system to give any mix of inputs across two displays

Output Type	10-bit DVI or RGBHV (via adaptor) output
Number of Outputs	2: duplicate (in single-output mode) or dual output
Connector	DVI-I connector
Output Resolution	Single-output display mode: user-programmable up to 1920x1200 Dual head display mode: user-programmable up to 1920x1080

Control/Operation

System	Front-panel LCD menu, onscreen display
Software	Z-Configurator layout configuration software
Serial Interfaces	1 RS-232 port, 1 RS-232/422 port (user-selectable)
Ethernet	Ethernet control, via RJ-45
GPI	2 inputs per video input
Audio Output	Stereo, analog audio + simultaneous AES (2RU models only)
Master GPO	Can be used to trigger external alarm devices (2RU models only)

Physical

Housing	19-in. rackmount: 1RU high (HD 4/HD 8/HD 12); 2RU high (HD 12/HD 16/HD 20/HD 24/HD 32)
Dimensions (W x D x H)	1RU: 18.8 x 15.1 x 1.7 in. (480 x 386 x 44 mm) 2RU: 18.8 x 15.1 x 3.4 in. (480 x 386 x 88 mm)

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Weight	ZP2-HD4-FR1RU: 9 lbs (4.1 kg) ZP2-HD8-FR1RU: 10.3 lbs (4.7 kg) ZP2-HD12-FR1RU: 11.4 lbs (5.2 kg) ZP2-HD16: 17.2 lbs (7.8 kg) ZP2-HD20: 19.4 lbs (8.8 kg) ZP2-HD24: 20.7 lbs (9.4 kg) ZP2-HD32: 22.9 lbs (10.4 kg)	Ancillary Data Decode	Closed caption decode and display (EIA 608, 708) D-VITC decode and display (RP188) Source ID (SMPTE 291M) WSS AFD
Power	Auto-detected of 100 or 240 V and within 47/63 Hz; uses a 2.2 A fuse; single mains power adaptor (supplied)	UMD Protocol Support	TSL Thomson ASCII Image Video Ross
Environmental	Operating temperature 32° to 95° F (0° to 35° C), storage is 32° to 122° F (0° to 50° C), humidity 70% maximum	Graphics Overlay	Ability to download bitmaps for logos on screen Stylized video window skins In-picture embedded audio bargraphs 2 analog clocks 6 up/down timers 4 tally lamps — red, green, yellow, blue Dynamic UMD/tally 6 digital clocks
Front Panel	6 configuration/menu buttons	Fault Detection And Alarms	Loss of video sync Frozen picture Audio over-level Loss of V-Chip rating Black picture Loss of audio/audio under-level Loss of closed captioning Loss of source ID
Rear Panel	Power on/off, rear I/O 4, 8, 12, 16, 20, 24, 32 SD/HD I/O BNC pairs, each with GPI/O 9-pin RS-232, 9-pin RS-232/422 and Ethernet as standard	Status Indicators	Closed caption detection Source ID V-Chip status Input standard
Compliance	CE product emission standard EN 55 022:1994, CE generic immunity standard 50082-1:1992 (as per the EMC directive 89/336/EEC), FCC Class A digital device, pursuant to part 15 of the FCC rules; RoHS-compliant		

IMAGES/DIAGRAMS

Predator II-GX 2RU model with 32 video inputs



Predator II-GX 1RU model with 12 video inputs



Predator II-GX 2RU model with 16 video inputs and 8 DVI-I inputs



Predator II-GX 1RU model with 8 video inputs and 4 DVI-I inputs



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MULTIVIEWERS // HVIEW™ CP – COMPACT, MID-SIZED MULTIVIEWERS

ORDERING INFORMATION

System

ZP2-HD4-GX-FR1RU	High-resolution 4-channel 1RU multiviewer system
ZP2-HD8-GX-FR1RU	High-resolution 8-channel 1RU multiviewer system
ZP2-HD12-GX-FR1RU	High-resolution 12-channel 1RU multiviewer system
ZP2-HD4-GX	High-resolution 4-channel 2RU multiviewer system
ZP2-HD8-GX	High-resolution 8-channel 2RU multiviewer system
ZP2-HD12-GX	High-resolution 12-channel 2RU multiviewer system
ZP2-HD16-GX	High-resolution 16-channel 2RU multiviewer system
ZP2-HD20-GX	High-resolution 20-channel 2RU multiviewer system
ZP2-HD24-GX	High-resolution 24-channel 2RU multiviewer system
ZP2-HD32-GX	High-resolution 32-channel 2RU multiviewer system

All models support HD (720p/1080i), SDI (625/525), composite (PAL/NTSC) inputs auto-detected.

* Above models include, as standard, Dual Head, embedded audio monitoring, UMD tally, video and audio alarms, Z-Configurator software, and LAN control.

Options

ZP2-OPT-VID4	4-channel video input card can be added to a base system to increase inputs to a large model in the same chassis (4-12 in 1RU, 12-32 in 2RU)
ZP2-OPT-GRF2	2-channel computer input card; add DVI-I inputs to base model; number of cards allowed is dependent on number of video inputs; none allowed with 32 video input system; see below for details
ZP2-PSU2	Redundant power supply (2RU models only)
ZP2-AA	Analog audio option card; each card accepts 8 analog audio inputs; maximum of 1 card for every 4 channels of video
ZP2-DA	Digital audio option card; each card accepts 16 digital audio inputs via 8 AES channels; maximum of 1 card for every 4 channels of video
Z-DVI-HDSOI	DVI-I to HD-SDI scaler box for conversion from DVI-I to HD-SDI/SDI (from Gefen: EXT-DVI-2-HDSOISSL); 1 required per output
Z-DVI-RGB	RGB (socket) to DVI-I (plug) adaptor for conversion between DVI-I and RGB; 1 required per output
Z-DVI-EXT	DVI FM extender to extend DVI display up to 2000 ft (610 m) away from source (from Gefen: EXT-DVI-FMP); 1 per output
ZP2-HAR	Lockable Harlink cables for breakout of GPIO connectors; there is 1 GPIO connector for every 2 video inputs; also used for audio monitor out (included as standard with ZP2-AA or ZP2-DA options)
Z-TC	LTC to serial plug-in module for synchronization to master clock and clock display (from Horita) for 1RU models only (2RU has LTC integrated)
NUCLEUS-MV	2RU network control panel for Predator II
NUCLEUS-MV-DM	Deskmount network control panel for Predator II

Model	Max allowed ZP2-OPT-GRF2
ZP2-HD4-GX-FR1RU	1 or 2
ZP2-HD8-GX-FR1RU	1 or 2
ZP2-HD12-GX-FR1RU	1
ZP2-HD4-GX	1, 2, 3, 4, 5 or 6
ZP2-HD8-GX	1, 2, 3, 4, 5 or 6
ZP2-HD12-GX	1, 2, 3 or 4
ZP2-HD16-GX	1, 2, 3 or 4
ZP2-HD20-GX	1 or 2
ZP2-HD24-GX	1 or 2
ZP2-HD32-GX	0