PTZ-12G/PTZ-NDI RELEASE NOTES

Welcome to the PTZ-12G and PTZ-NDI Release Notes. Please read this document to find important information on areas that may not be covered in the Technical Manual and Quick Start Guide.

CONTENTS

5000DR-354-1.0A

VERSION HISTORY

VERSION 1.0a – JANUARY 2022

WHAT'S NEW

This is the first release of firmware for the Ross PTZ-12G and PTZ-NDI cameras.

- **4K/60 PTZ Camera with 30x Optical Zoom**
  Perfect for live broadcasts in houses of worship, corporate board rooms, auditoriums, classrooms and TV studios, the Ross PTZ-12G and PTZ-NDI deliver all of the high-end features of a UHD pan-tilt-zoom (PTZ) camera within your production budget. The result is a high performance PTZ camera that is easer to deploy, integrate and operate than anything before in its class.

- **Simple installation and upgrade**

  The PTZ-12G supports IP control, streaming video, audio, and power-over-ethernet (PoE++) over a single Cat6 cable, with the PTZ-NDI adding native NDI|HX2 to that list. Firmware can be easily upgraded over the Web UI with no physical access to the camera required.

- **Endless output possibilities**

  Both models support 720p, 1080p, 2160p resolutions at 25 / 29.97 / 50 / 59.94 fps. Video can be output over 12G-SDI, HDMI 2.0, Ethernet, or USB 3.0. The PTZ-12G supports streaming over RTSP / RTMP / RTMPS / MPEG-TS / SRT using H.265, HEVC or MJPEG compression, while the PTZ-NDI offers NDI|HX2 streaming, (H.264 or HEVC compression).

- **Stored On-board**

  Up to 256 user defined preset modes can be stored on the camera, allowing the quick and easy recall of Pan,Tilt, Zoom, Focus, and paint settings. Presets stored on the camera are available for recall by any control system connected to the camera, including Dashboard, video switchers, or third-party controllers.

- **Stay Focused**

  Autofocus keeps the subject in focus even as they move around within the frame. Settings allow adjustment of the sensitivity and the region of the frame that is used for focusing.

- **Perfectly Exposed**

  Choose from four exposure modes, from fully manual to fully automatic, with iris priority and shutter priority in between. In addition, Wide Dynamic Range (WDR) provides superior images when lighting conditions vary widely across the frame.

- **Paint a pretty picture**

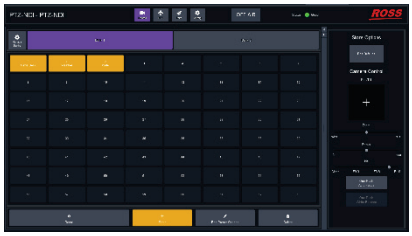
  Comprehensive suite of color and picture controls allows fine tuning of the camera image, including seven white balance modes, manual red and blue settings, sharpness, 2D and 3D noise reduction, and hue, saturation and gamma settings.

- **Integrated Tally**

  The PTZ includes an integrated tally light that can be illuminated red, green or orange, as set by the external controller to reflect the various tally states for the camera.

- **Flexible control options**

  The PTZ-12G and PTZ-NDI can be controlled from DashBoard via VISCA over IP. They also offer a Web UI interface, as well as an on-screen display which can be controlled directly with a remote control unit or from a DashBoard client. SmartShell control can be enabled using the Furio gateway, which forms part of the DashBoard controller.



Note: The NDI video output by the PTZ-NDI camera uses the NDI|HX2 protocol which is not supported by all video viewers (including Ross DashBoard).

LOAD LINEUP

- **PTZ-12G: VCBD101** (VMG100 _VMF101 _VWS100 _VWT100 _VWP122 _VMK107 _VWR100 _VMN105_VMO107)
- **PTZ-NDI: VCBE100** (VMG100 _VMF101 _VWN101 _VWO102 _VWP122 _VMK107 _VWR100 _VMN105_VMO107)

KNOWN ISSUES

Known issues include the following:

- **"About" tab shows incorrect firmware version after firmware upgrade fails**
  If an operator attempts to load incorrect firmware to the camera through the Web UI (for example loading firmware for the PTZ-12G to the PTZ-NDI), the upgrade will fail with the error “Firmware Upgrade Failed” and the Detail Information in the About tab of the Web UI will still show the previous firmware load line-up. However, the Firmware Version shown on the About page of the Web UI, or through DashBoard, will be the version number of the incorrect firmware that failed to load. The camera will continue to operate normally, but setting the camera to standby and back to power on in this state can cause some connection and performance issues, which resolve when camera is

power cycled. The incorrect firmware version will still be shown after the power cycle. To fully resolve this issue, reload the correct firmware to the camera. (CAM-338).

GETTING HELP

- Our 24-hour hotline service provides access to technical expertise around the clock. After-sales service and technical support is provided directly by Ross Video personnel.
- During business hours (Eastern Standard Time), technical support personnel are available by telephone.
- After hours and on weekends, emergency technical support is available. A telephone-answering device will provide the names and phone numbers of technical support and field service personnel who are on call. These people are available to react to any problem and to do whatever is necessary to ensure customer satisfaction. For serious issue which need urgent attention and tracking, please ensure you are given a ticket number and refer to this in future communications.
    - **Technical Support: (+1) 613-652-4886**
    - **After Hours Emergency: (+1) 613-349-0006**