

Marshall Decides to Double-Down on IP Workflows with Additional Camera Options

Announces more NDI®|HX cameras with high bandwidth NDI® camera release models in 2021...

For almost 40 years, Marshall Electronics has been known in broadcast for designing and producing high-quality video monitors used in television and movie production to analyze waveform, vectorscope and other video monitoring analytics. While Marshall continues to release new monitors, cameras have become a larger portion of its business model. The company released its first miniature POV camera a decade ago, which offered simple broadcast-centric features and broadcast performance built into small durable bodies at an affordable price point. This quickly grew into multiple generations of new release models incorporating lessons learned, added features and tireless refinement.

More recently, Marshall's PTZ cameras have exploded in popularity



Marshall CV630-NDI



Marshall CV730-BK

due to their flexibility to serve a wide range of broadcast and proAV applications. Marshall PTZ cameras now offer improved video quality with the release of professional grade 4K (UHD) sensors, simple one-cable to camera setup, smooth remote manoeuvrability, simultaneous outputs available and compatibility with a variety of IP workflows.

"It's been a wild ride over the past 10 years, and only gets more interesting," says Tod Musgrave, Director of Cameras for Marshall Electronics. "I've always enjoyed collaborating with our broadcast customers that use our products, how they use them in their workflow and picking their brains for practical applications. Our customers are some of the top engineers in the field, so once you stop and listen, they almost design the next camera for you. Then it's a matter of working with our design engineers to ensure we refine video quality, collaborate with technology partners, and ensure we deliver what I consider as our Marshall heritage of broadcast quality and reliability."

Marshall released two levels of 4K PTZ cameras within the last year with 30x optical zoom and professional grade sensors: one with up to 4K30 (CV630) resolution and one with up to 4K60 (CV730) resolution. The CV630 with 3GSDI/HDMI comes in two flavors: one with IP/HEVC/SRT (CV630-IP) and one with NDI®|HX (CV630-NDI). The CV730 with larger 1/1.8" sensor and 12GSDI/HDMI comes in two versions as well: one with IP/HEVC/SRT (CV730-IP) and one with NDI®|HX (CV730-NDI). In addition, the CV730 is equipped with the added convenience of a USB3.0 for video conference and PC/Mac workflows.

"The Newtek NDI® team has been fun to work with since the very beginning," Tod Musgrave adds. "Marshall was one of the first adopters of the NDI® platform, building the technology into our PTZ cameras several years ago and watching the technology progress with greatly improved NDI® Tools,

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lower latency, ease of discovery and the ability to mix different media types into the NDI® workflow. We're proud to be a part of the NDI® network."

Marshall also recently released two levels of fixed position cameras with 30x optical zoom and professional grade sensors: one with up to HD60 (CV355-30X) resolution and one with up to UHD60 (CV420-30X). The CV355-30X with 3GSDI/HDMI comes in two options: one with IP/HEVC/SRT (CV355-30X-IP) and one with NDI®|HX (CV355-30X-NDI). The CV420-30X also comes in two variants: one with IP/HEVC/SRT (CV420-30X-IP) and one with NDI®|HX (CV420-30X-NDI).

Offering an IP camera model for every budget, Marshall is looking towards 2021 with several new products coming down the pipeline. On the higher-end, Marshall is announcing a High-Bandwidth NDI® camera (CV730-BHN) releasing late Q3 in PTZ form with up to 4K60 resolution and 30x optical zoom packed with High-Bandwidth NDI®, NDI®|HX and simultaneous 12GSDI/HDMI.2.0 outputs. On the lower-end, also releasing later this year, Marshall is announcing the CV620-BI with 20x optical zoom 3GSDI, HDMI and IP/HEVC/SRT, and the CV620-BN with 20x optical zoom 3GSDI, HDMI and NDI®|HX.

For the ultra-budget conscious applications, Marshall will release a sub \$800 model mid 2021 with the CV605 PTZ HD Camera model, which will include IP/USB-C/HDMI and 3GSDI. This offers a tremendous value versus performance alternative with clear HD video and accurate color enhancement, even in challenging light environments.

Marshall has added additional tools that can be used to support setup and operation of the entire PTZ and



Marshall
CV420-30X-NDI

Zoom camera lines. One ultra-convenient tool is the Home Run RS232/RS422 Splitter Extender Box (RS7-HR), available now, that splits control of one controller via CAT cable to up to seven cameras while extending usable length of cable runs by two (2x) fold for RS232 or RS422. For PTZ controllers, choose from two different models from the entry-level VS-PTC-200 or the advanced broadcast-style VS-PTC-IP model with individual dial control of Exposure, Iris, White Balance and Focus with a rocker seesaw for zoom. Finally, encasing every model in IP68 housings for outdoor use is also now possible with CV-H20-HF for fixed position models, CV6XX-HFH for CV600-series and CV7XX-HFH for the CV700-series, all with heaters and fans for environment control.

It's safe to say that Marshall is completely behind the big push in IP cameras with PTZ and fixed position camera options, whether it's standard IP (HEVC), Haivision SRT or Newtek NDI®. The company has double-downed, triple-downed, even gone ALL-IN on the future of IP in broadcast and proAV. The only question is what will be added next... stay tuned. ■



Marshall CV6XX-HFH



Marshall RS7-HR